

## ЦИТИРАНИЯ

(без автоцитати и полуавтоцитати)

доц. д-р Искрен Георгиев Сергиев

Справка от База данни SONIX за отчитане на научната и експертната дейност в БАН

- **Звено:** ( ИФРГ ) Институт по физиология на растенията и генетика
- **Секция:** ( ИФРГ ) Регулатори на растежа и развитието на растенията
- **Име:** ( ИФРГ/0001 ) Сергиев, Искрен

## СПРАВКА ВСИЧКИ ЦИТИРАНИЯ

- **Вид на цитиращото издание:** Всички издания
- **Година:** 1992 ÷ 2023

Брой цитирани публикации: 69 от 89	Брой цитиращи източници: 2774	Коригиран брой: 2774.000
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## СПИСЪК НА ЦИТИРАНИЯ В SCOPUS ИЛИ WEB OF SCIENCE

Извадка за последните 7 години

- **Вид на цитиращото издание:** Публикация в Scopus/WoS
- **Година:** 2017 ÷ 2023

Брой цитирани публикации: 51 от 89	Брой цитиращи източници: 1310	Коригиран брой: 1310.000
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1994

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1. Zheleva, D, Tsonev, T, Sergiev, I, Karanov, E. Protective effect of exogenous polyamines against atrazine in pea plants. Journal of Plant Growth Regulation, 13, 4, Springer, 1994, ISSN:1435-8107, DOI:10.1007/BF00226038, 203-211. SJR:0.714, ISI IF:2.237

### Цитира се в:

1. Wang J, XM Zhong, XL Lv, ZS Shi, FH Li (2018) Photosynthesis and physiology responses of paired near-isogenic lines in waxy maize (*Zea mays* L.) to nicosulfuron. Photosynthetica 56(4), 1059–1068., @2018 [Линк](#)
2. Azmat R, S Moin (2019) The remediation of drought stress under VAM inoculation through proline chemical transformation action. Journal of Photochemistry and Photobiology B: Biology, 193, 155-161., @2019 [Линк](#)
3. Burjus SJ, IS Alsaadawi, FO Janno (2020) Effect of cyanobacteria in combination with reduced dose of chemical fertilizers on growth and yield of wheat grown under salinity stress. Plant Archives, 20(1), 2695-2702., @2020 [Линк](#)
4. El-Naggar NEA, MH Hussein, SA Shaaban-Dessuuki, SR Dalal (2020) Production, extraction and characterization of *Chlorella vulgaris* soluble polysaccharides and their applications in AgNPs biosynthesis and biostimulation of plant growth. Sci Rep 10, 3011., @2020 [Линк](#)

5. Feng Y, X Zhong, Y Yao, Z Shi, F Li, H Wang, X Lv, W Du, M Zhu, H Yang, D Meng (2021) Photosynthetic and physiological responses to acetochlor in paired near-isogenic lines of waxy maize (*Zea mays* L.). *Environ Sci Pollut Res* 28, 19298–19309., @2021 [Линк](#)
6. Wang J, H Gao, Z Guo, Y Meng, M Yang, X Li, Q Yang (2021) Adaptation responses in C4 photosynthesis of sweet maize (*Zea mays* L.) exposed to nicosulfuron. *Ecotoxicology and Environmental Safety*, 214, 112096., @2021 [Линк](#)
7. Hamouda RA, Hussein MH, El-Naggar NE-A, Karim-Eldeen MA, Alamer KH, Saleh MA, Al Masoudi LM, Sharaf EM, El-Azeem RMA (2022) Promoting Effect of Soluble Polysaccharides Extracted from *Ulva* spp. on *Zea mays* L. Growth. *Molecules*, 27(4):1394., @2022 [Линк](#)
8. Ramzan M, M Akram, AA Rahi, M Mubashir, L Ali, S Fahad, J Krucky, S Al Obaid, MJ Ansari, R Datta (2022) Physio-biochemical, anatomical and functional responses of *Helianthus annuus* L. and *Brassica juncea* (Linn) to cypermethrin pesticide exposure, *Journal of King Saud University - Science*, 34(7), 102210., @2022 [Линк](#)
9. Sundararajan S, Shanmugam R, Rajendran V, Sivakumar HP, Ramalingam S (2022) Sodium Nitroprusside and Putrescine Mitigate PEG-Induced Drought Stress in Seedlings of *Solanum lycopersicum*. *J Soil Sci Plant Nutr*, 22, 1019-1032. <https://doi.org/10.1007/s42729-021-00710-x>, @2022 [Линк](#)
10. Xu N, Wu Z, Li X, Yang M, Han J, Lu B, Lu B, Wang J (2022) Effects of nicosulfuron on plant growth and sugar metabolism in sweet maize (*Zea mays* L.). *PLoS ONE* 17(10): e0276606., @2022 [Линк](#)

#### 1996

2. Yakimova, E, Kapchina-Toteva, V, **Alexieva, V, Sergiev, I**, Karanov, E. Effect of chlorsulfuron (GLEAN-75) and sucrose on some post-harvest physiological events in cut flowers. *Bulgarian Journal of Plant Physiology*, 22, 3-4, Institute of Plant Physiology - BAS, 1996, 74-87

Цитирана се в:

11. van Geest G., Post A., Arens P., Visser R.G.F., van Meeteren U. (Feb 2017) Breeding for postharvest performance in chrysanthemum by selection against storage-induced degreening of disk florets. *Postharvest Biology and Technology*, 124, Pages 45–53; DOI: 10.1016/j.postharvbio.2016.09.003, @2017
12. Patel D, Suthar R, Solanki HA (2021) Chemical preservation for increasing shelf life of *Chrysanthemum indicum* L. cut flower. *Research and Reviews: Journal of Environmental Sciences*, 3(1), 1-7., @2021

#### 2000

3. Stanoeva, E, Varbanov, S, **Alexieva, V, Sergiev, I**, Vassileva, V, Rashkova, M, Georgieva, A. Synthesis and Plant Growth Regulating Activity of New Triazolo- and Pyrazolopyrimidine Derivatives Of Aminomethyl, Aminoalkyloxymethyl Dimethylphosphine Oxides and (Aminomethane)Phosphonic Acid Esters. *Phosphorus, Sulfur, and Silicon and the Related Elements*, 165, 1, Taylor & Francis, 2000, DOI:10.1080/10426500008076331, 117-133. ISI IF:0.827

Цитирана се в:

13. Bhogireddy DN, SR Surapureddi, T Syed, T Prashanth, BR Tadiboina (2022) Synthesis and biological evaluation of aryl derivatives of isoxazole pyrazolo[1, 5-a] pyrimidines as anticancer agents. *Synthetic Communications*, 52:6, 861-874. DOI: 10.1080/00397911.2022.2056846, @2022 [Линк](#)
14. Moiseev DV (2023) Phospha-Mannich reactions of phosphinous acids R<sub>2</sub>P–OH and their derivatives, *Phosphorus, Sulfur, and Silicon and the Related Elements*, 198:11, 867-923, DOI: 10.1080/10426507.2023.2235054, @2023 [Линк](#)

4. Somleva, M, **Alexieva, V, Sergiev, I**, Karanov, E. Alterations in the activities of some hydrogen peroxide scavenging enzymes during induction of somatic embryogenesis in leaf explants from *Dactylis glomerata* L.. Comptes rendus de l'Academie bulgare des Sciences, 53, 4, BAS, 2000, 97-100. ISI IF:0.284

Цитира се в:

15. Simonović AD, M. Trifunović-Momčilov M, Filipović BK, Marković MP, Bogdanović MD, Subotić AR (2021) Somatic Embryogenesis in *Centaurium erythraea* Rafn—Current Status and Perspectives: A Review. *Plants* 10(1):70., @2021 [Линк](#)

5. **Sergiev, I, Alexieva, V**, Yanev, S, Karanov, E. Effect of atrazine and spermine on free proline and some antioxidants in pea (*Pisum sativum* L.) plants. Comptes rendus de l'Academie bulgare des Sciences, 53, 10, BAS, 2000, 63-66. ISI IF:0.284

Цитира се в:

16. Kakavand SN, N Karimi, H-R Ghasempour (2019) Salicylic acid and jasmonic acid restrains nickel toxicity by ameliorating antioxidant defense system in shoots of metallicolous and non-metallicolous *Alyssum inflatum* Náyr. Populations. *Plant Physiology and Biochemistry*, 135, 450-459, @2019 [Линк](#)
17. Alayafi AAM (2020) Exogenous ascorbic acid induces systemic heat stress tolerance in tomato seedlings: transcriptional regulation mechanism. *Environ Sci Pollut Res* 27, 19186–19199., @2020 [Линк](#)
18. Ayisigi M, A Cokislerel, Y Kucukcobanoglu, T Yalcin, LY Aktas (2020) Green synthesized silver nanoparticles for an effective control on soft rot disease pathogen *Pectobacterium carotovorum* and growth stimulation in pepper. *Bulgarian Journal of Agricultural Science*, 26(3), 574–584., @2020 [Линк](#)
19. Elkelish A, Qari SH, Mazrou YSA, Abdelaal KAA, Hafez YM, Abu-Elsaoud AM, Batiha G-S, El-Esawi MA, El Nahhas N (2020) Exogenous Ascorbic Acid Induced Chilling Tolerance in Tomato Plants Through Modulating Metabolism, Osmolytes, Antioxidants, and Transcriptional Regulation of Catalase and Heat Shock Proteins. *Plants*, 9, 431., @2020 [Линк](#)
20. Soliman MH, TS Alnusaire, NF Abdelbaky, AAM Alayafi, M Hasanuzzaman, MM Rowezak, M El-Esawi, A Elkelish (2020) Trichoderma-Induced Improvement in Growth, Photosynthetic Pigments, Proline, and Glutathione Levels in *Cucurbita pepo* Seedlings Under Salt Stress. *Phyton*, DOI:10.32604/phyton.2020.08795, @2020 [Линк](#)
21. Hussain Z, F Rasheed, MA Tanvir, Z Zafar, M Rafay, M Mohsin, P Pulkkinen, C Ruffner (2021) Increased antioxidative enzyme activity mediates the phytoaccumulation potential of Pb in four agroforestry tree species: a case study under municipal and industrial wastewater irrigation. *International Journal of Phytoremediation*, 23:7, 704-714, DOI: 10.1080/15226514.2020.1849016, @2021
22. Barzin G, Safari F, Bishekolaei R (2022) Beneficial role of methyl jasmonate on morphological, physiological and phytochemical responses of *Calendula officinalis* L. under Chromium toxicity. *Physiol Mol Biol Plants* 28, 1453–1466. <https://doi.org/10.1007/s12298-022-01213-4>, @2022 [Линк](#)
23. Najafi-Kakavand S, N Karimi, HR Ghasempour, A Raza, M Chaichi, M Modarresi (2022) Role of Jasmonic and Salicylic Acid on Enzymatic Changes in the Root of Two *Alyssum inflatum* Náyr. Populations Exposed to Nickel Toxicity. *J Plant Growth Regul* (2022). <https://doi.org/10.1007/s00344-022-10648-8>, @2022 [Линк](#)
24. Barzin, G., Firozabadi, Z.J. The Effect of Silicon on Growth, Physiological, and Phytochemical Attributes of *Calendula* Seedlings Under Lead Stress. *Water Air Soil Pollut* 234, 323 (2023)., @2023 [Линк](#)
25. Hassannejad S, B Fadaei, E Abbasvand, SP Ghafarbi, Z Nasirpour. Early response of *Solanum nigrum* L. to Lumax and castor oil combination in relation to antioxidant activity, osmolyte concentration and chlorophyll a fluorescence. *Sci Rep* 13, 409 (2023)., @2023 [Линк](#)
26. Mammadova T, L Guliyeva, H Moulahoum, K Tok, Y Küçükçobanoğlu, LY Aktas, F Zihnioglu (2023) Role of phytochemicals and secondary metabolites from *Mentha spicata* in acetylcholine esterase inhibition for effective pest control of *Tetranychus urticae* Koch, *International Journal of Acarology*, DOI: 10.1080/01647954.2023.2275754, @2023 [Линк](#)

27. Najafi-Kakavand S, N Karimi, HR Ghasempour, A Raza, M Chaichi, M Modarresi . Role of Jasmonic and Salicylic Acid on Enzymatic Changes in the Root of Two *Alyssum inflatum* Náyr. Populations Exposed to Nickel Toxicity. *J Plant Growth Regul* 42, 1647–1664 (2023)., @2023 [Линк](#)

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2001

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6. Alexieva, V, Sergiev, I, Mapelli, S, Karanov, E. The effect of drought and ultraviolet radiation on growth and stress markers in pea and wheat. *Plant, Cell & Environment*, 24, John Wiley & Sons, 2001, ISSN:1365-3040, DOI:10.1046/j.1365-3040.2001.00778.x, 1337-1344. ISI IF:6.96

Цитира се в:

28. Abdel-Haliem MEF, HS Hegazy, NS Hassan, DM Naguib (2017) - Effect of silica ions and nano silica on rice plants under salinity stress. *Ecological Engineering*, 99, 282–289. <http://dx.doi.org/10.1016/j.ecoleng.2016.11.060>, @2017
29. Alves LR, CC Monteiro, RF Carvalho, PC Ribeiro, T Tezotto, RA Azevedo, PL Gratão (2017) - Cadmium stress related to root-to-shoot communication depends on ethylene and auxin in tomato plants. *Environmental and Experimental Botany*, 134, 102–115., @2017 [Линк](#)
30. Amorim CA, Ulisses C, Moura AN (Oct 2017) Biometric and physiological responses of *Egeria densa* Planch. culti-vated with toxic and non-toxic strains of *Microcystis*. *Aquatic Toxicology*, 191, 201-208; DOI: 10.1016/j.aquatox.2017.08.012, @2017
31. Arslan M, Weaver G (2017) Defining free amino acid contents of grass pea (*Lathyrus sativus*) genotypes in Turkey. *Cogent Chemistry*, 3(1) ; DOI: 10.1080/23312009.2017.1302311, @2017
32. Bartwal A, S Arora (2017) - Drought stress-induced enzyme activity and mdar and apx gene expression in tolerant and susceptible genotypes of *Eleusine coracana* (L.). *In Vitro Cellular & Developmental Biology - Plant*, 53(1), 41–49., @2017
33. Bianucci E, Furlan A, del Carmen Tordable M, Hernández LE, Carpena-Ruiz RO, Castro S (Aug 2017) Antioxidant responses of peanut roots exposed to realistic groundwater doses of arsenate: Identification of glutathione S-transferase as a suitable biomarker for metalloids toxicity. *Chemosphere*, 181, 551-561; DOI: 10.1016/j.chemosphere.2017.04.104, @2017
34. Çelik Ö., Ayan A., Atak Ç. (2017) Enzymatic and non-enzymatic comparison of two different industrial tomato (*Solanum lycopersicum*) varieties against drought stress. *Botanical Studies*, 58, 32; DOI: 10.1186/s40529-017-0186-6, @2017
35. Chacón-Madrid K, de Souza Pessoa G, Salazar MM, Pereira GAG, Carneiro JMT, de Lima TB, Gozzo FC, Arruda MAZ (Jul 2017) Evaluation of genetically modified *Arabidopsis thaliana* through metallomic and enzymatic approaches focusing on mass spectrometry-based platforms. *International Journal of Mass Spectrometry*, 418, 6-14; DOI: 10.1016/j.ijms.2017.02.001, @2017
36. Christalatalani G, Vieira MR, de Camargos LS, Bomfim NCP, Agustini JA (Jun 2017) Effects of potassium silicate application on papaya plants in the twospotted spider mite population. *Revista Brasileira de Fruticultura*, 39(2) ; DOI: 10.1590/0100-29452017840, @2017
37. da Silva Magedans YV, Matsuura HN, Tasca RAJC, Wairich A, de Oliveira Junkes CF, de Costa F, Fett-Neto AG (2017) Accumulation of the antioxidant alkaloid brachycerine from *Psychotria brachyceras* Müll. Arg. is increased by heat and contributes to oxidative stress mitigation, *In Environmental and Experimental Botany*, ; DOI: 10.1016/j.envexpbot.2017.09.008, @2017
38. Doupis G, Kavroulakis N, Psarras G, Papadakis IE (2017) Growth, photosynthetic performance and antioxidative re-sponse of ‘Hass’ and ‘Fuerte’ avocado (*Persea americana* Mill.) plants grown under high soil moisture. *Photosyn-thetica*, 55(4) 655–663. DOI: 10.1007/s11099-016-0679-7, @2017
39. Einali A, J Valizadeh (2017) - Storage reserve mobilization, gluconeogenesis, and oxidative pattern in dormant pistachio (*Pistacia vera* L.) seeds during cold stratification. *Trees*, 31(2), 659–671., @2017

40. Einali, A. (2017) The induction of salt stress tolerance by propyl gallate treatment in green microalga *Dunaliella bardawil*, through enhancing ascorbate pool and antioxidant enzymes activity. *Protoplasma*, 1-11; DOI: 10.1007/s00709-017-1173-1, @2017
41. Elewa TA, Sadak MS, Saad AM (2017) Proline treatment improves physiological responses in quinoa plants under drought stress. *Bioscience Research*, 14(1) 21-33; Print ISSN: 1811-9506, Online ISSN: 2218-3973, @2017 [Линк](#)
42. Escobar-Bravo R., Klinkhamer P.G.L., Leiss K.A. (2017) Interactive effects of UV-B light with abiotic factors on plant growth and chemistry, and their consequences for defense against Arthropod herbivores. *Frontiers in Plant Science*, 8, 278; DOI: 10.3389/fpls.2017.00278, @2017
43. Esserti S, Smaili A, Rifai LA, Koussa T, Makroum K, Belfaiza M, Kabil EM, Faize L, Burgos L, Albuquerque N, Faize M (2017) Protective effect of three brown seaweed extracts against fungal and bacterial diseases of tomato. *J Appl Phycol*, 29(2) 1081-1093; DOI:10.1007/s10811-016-0996-z, @2017
44. Ferreira LT, MM de Araújo Silva, C Ulisses, TR Camara, L Willadino (2017) - Using LED lighting in somatic embryogenesis and micropropagation of an elite sugarcane variety and its effect on redox metabolism during acclimatization. *Plant Cell, Tissue and Organ Culture*, 128(1), 211–221. doi:10.1007/s11240-016-1101-7, @2017 [Линк](#)
45. Fu YM, Gao H, Li HY, Qin YC, Tang W, Lu JY, Li M, Shao LZ, Liu H (Oct 2017) Change of growth promotion and disease resistant of wheat seedling by application of biocontrol bacterium *Pseudochrobactrum kiredjianiae* A4 under simulated microgravity. *Acta Astronautica*, 139, 222-227; DOI: 10.1016/j.actaastro.2017.06.022, @2017
46. Gavassi MA, Monteiro CC, Campos ML, Melo HC, Carvalho RF (Aug 2017) Phytochromes are key regulators of abiotic stress responses in tomato. *Scientia Horticulturae*, 222, 126-135; DOI: 10.1016/j.scienta.2017.04.035, @2017
47. González-Villagra J., Kurepin L.V., Reyes-Díaz M.M. (2017) Evaluating the involvement and interaction of abscisic acid and miRNA156 in the induction of anthocyanin biosynthesis in drought-stressed plants. *Planta*, 246(2), 299-312; DOI: 10.1007/s00425-017-2711-y, @2017
48. Hatami M (Aug 2017) Toxicity assessment of multi-walled carbon nanotubes on *Cucurbita pepo* L. under well-watered and water-stressed conditions. *Ecotoxicology and Environmental Safety*, 142, 274-283; DOI: 10.1016/j.ecoenv.2017.04.018, @2017
49. Hatami M, J Hadian, M Ghorbanpour (2017) - Mechanisms underlying toxicity and stimulatory role of single-walled carbon nanotubes in *Hyoscyamus niger* during drought stress simulated by polyethylene glycol. *Journal of Hazardous Materials*, 324(B), 306–320. <http://dx.doi.org/10.1016/j.jhazmat.2016.10.064>, @2017
50. Hiremath, SS, Sajeevan RS, Nataraja KN, Chaturvedi AK, Chinnusamy V, Pal M (Aug 2017) Silencing of fatty acid desaturase (FAD7) gene enhances membrane stability and photosynthetic efficiency under heat stress in tobacco (*Nicotiana benthamiana*). *Indian Journal of Experimental Biology*, 55, 532-541; ISSN: 0975-1009 (Online); 0019-5189 (Print), @2017 [Линк](#)
51. Ho TT, Lee KJ, Lee JD, Bhushan S, Paek K-Y, Park S-Y (2017) Adventitious root culture of *Polygonum multiflorum* for phenolic compounds and its pilot-scale production in 500 L-tank. *Plant Cell Tissue Organ Cult.*, 130(1), 167-181. DOI: 10.1007/s11240-017-1212-9, @2017
52. Hura K., Ostrowska A., Dziurka K., Hura T. (2017) Photosynthetic apparatus activity in relation to high and low contents of cell wall-bound phenolics in triticale under drought stress. *Photosynthetica*, 55(4) 698-704; DOI: 10.1007/s11099-017-0687-2, @2017
53. Ibrahim M.H., Ismail A., Omar H., Nadzir M.N.H.M., Zain N.A.M. (2017) Primary, secondary metabolites, bio-chemical and antioxidant activity of *Orthosiphon stamineus* Benth (Misai Kucing) UNDER CADMIUM EXPO-SURE. *Annual Research & Review in Biology*, 19(1): 1-14, Art no. ARRB.36413; DOI: 10.9734/ARRB/2017/36413, @2017
54. Jalali F, Zafari D, Salari H (Oct 2017) Volatile organic compounds of some *Trichoderma* spp. increase growth and induce salt tolerance in *Arabidopsis thaliana*. *Fungal Ecology*, 29, 67-75; DOI: 10.1016/j.funeco.2017.06.007, @2017

55. Javadi T, Rohollahi D, Ghaderi N, Nazari F (Apr 2017) Mitigating the adverse effects of drought stress on the mor-pho-physiological traits and anti-oxidative enzyme activities of *Prunus avium* through  $\beta$ -amino butyric acid drench-ing. *Scientia Horticulturae*, 218, 156-163; DOI: 10.1016/j.scienta.2017.02.019, @2017
56. Karam EA, Keramat B. (2017) Foliar spray of triaccontanol improves growth by alleviating oxidative damage in cori-ander under salinity. *Ind J Plant Physiol.*, 22(1) 120-124; DOI: 10.1007/s40502-017-0286-z, @2017
57. Karami L, N Ghaderi, T Javadi (2017) Morphological and physiological responses of grapevine (*Vitis vinifera* L.) to drought stress and dust pollution. *Folia Hort.* 29(2), 231-240., @2017
58. Kaur H, Bhardwaj RD, Grewal SK (2017) Mitigation of salinity-induced oxidative damage in wheat (*Triticum aestivum* L.) seedlings by exogenous application of phenolic acids. *Acta Physiologiae Plantarum*, 39, 221; DOI: 10.1007/s11738-017-2521-7, @2017
59. Liang Q., Wu Y., Wang K., Bai Z., Liu Q., Pan Y., Zhang L., Jiang B. (2017) Chrysanthemum WRKY gene DgWRKY5 en-hances tolerance to salt stress in transgenic chrysanthemum. *Scientific Reports*, 7, 4799. DOI: 10.1038/s41598-017-05170-x, @2017
60. Liu HR, GW Sun, LJ Dong, LQ Yang, SN Yu, SL Zhang, JF Liu (2017) - Physiological and molecular responses to drought and salinity in soybean. *Biologia Plantarum*, 1–8. DOI: 10.1007/s10535-017-0703-1, @2017 [Линк](#)
61. López-Gómez M, Hidalgo-Castellanos J., Muñoz-Sánchez J.R., Marín-Peña A.J., Lluch C, Herrera-Cervera J.A. (Jul 2017) Polyamines contribute to salinity tolerance in the symbiosis *Medicago truncatula*-*Sinorhizobium meliloti* by preventing oxidative damage. *Plant Physiology and Biochemistry*, 116, 9-17; DOI: 10.1016/j.plaphy.2017.04.024v, @2017
62. Lou LL, Kang JQ, Pang HX, Li QY, Du XP, Wu W, Chen JX, Lv JY (2017) Sulfur protects pakchoi (*Brassica chinensis* L.) seedlings against cadmium stress by regulating ascorbate-glutathione metabolism. *Int. J. Mol. Sci.*, 18(8), 1628; DOI:10.3390/ijms18081628, @2017
63. Ma YM, Yang C, He Y, Tian ZH, Li JX (Oct 2017) Rice OVATE family protein 6 regulates plant development and confers resistance to drought and cold stresses. *Journal of Experimental Botany*, 68(17) 4885–4898; DOI: 10.1093/jxb/erx309, @2017
64. Magedans YVS, HN Matsuura, RAJC Tasca, A Wairich, CFO Junkes, F de Costa, AG Fett-Neto (2017) - Accumulation of the antioxidant alkaloid brachycerine from *Psychotria brachyceras* Müll. Arg. is increased by heat and contributes to oxidative stress mitigation. *Env Exp Bot*, 143, 185-193., @2017
65. Mahawar L., Kumar R., Shekhawat G.S. (2017) Evaluation of heme oxygenase 1 (HO 1) in Cd and Ni induced cyto-toxicity and crosstalk with ROS quenching enzymes in two to four leaf stage seedlings of *Vigna radiata*. *Protoplasma*. DOI: 10.1007/s00709-017-1166-0, @2017
66. Mohamadi N, A Baghizadeh, S Saadatmand, Z Asrar (2017) Alleviation of oxidative stress induced by drought stress through priming by  $\beta$ -aminobutyric acid (BABA) in Rapeseed (*Brassica napus*L.) plants. *Iranian Journal of Plant Physiology*, 7(4), 2203-2210., @2017 [Линк](#)
67. Mokhtari F, F Rafiei, L Shabani, B Shiran (2017) - Differential expression pattern of transcription factors across annual *Medicago* genotypes in response to salinity stress. *Biologia Plantarum*, 61(2), 227–234. doi:10.1007/s10535-016-0666-7, @2017
68. Oliveira MT, Souza GM, Pereira S, Oliveira DAS, Figueiredo-Lima KV, Arruda E, Santos MG (2017) Seasonal vari-ability in physiological and anatomical traits contributes to invasion success of *Prosopis juliflora* in tropical dry for-est. *Tree Physiology*, 37(3) 326–337; DOI: 10.1093/treephys/tpw123, @2017
69. Pandey V., Tewari A.K., Saxena D. (Jul 2017) Activities of defensive antioxidant enzymes and biochemical com-pounds induced by bioagents in indian mustard against *Alternaria* Blight. *Proc. Natl. Acad. Sci., India, Sect. B: Biol. Sci.*, ; DOI: 10.1007/s40011-017-0888-2, @2017

70. Peters LP, G Carvalho, MB Vilhena, S Creste, RA Azevedo, CB Monteiro-Vitorello (2017) - Functional analysis of oxidative burst in sugarcane smut-resistant and -susceptible genotypes. *Planta*, 245(4), 749–764., @2017
71. Pourghayoumi, M., Rahemi, M., Bakhshi, D., Aalami A., Kamgar-Haghighi A. (Apr 2017) Responses of pomegranate cultivars to severe water stress and recovery: changes on antioxidant enzyme activities, gene expression patterns and water stress responsive metabolites. *Physiology and Molecular Biology of Plants*, 23(2) 321-330; DOI: 10.1007/s12298-017-0435-x, @2017
72. Praveen A, Pandey C, Khan E, Panthri M, Gupta M (Aug 2017) Silicon mediated genotoxic alterations in *Brassica juncea* under arsenic stress: comparative study of biochemical and molecular markers. *Pedosphere*, ; DOI: 10.1016/S1002-0160(17)60435-1, @2017
73. Praveen, A., Khan, E., Perwez, M., Sardar, M., & Gupta, M. (2017) iron oxide nanoparticles as nano-adsorbents: A possible way to reduce arsenic phytotoxicity in indian mustard plant (*Brassica juncea* L.). *Journal of Plant Growth Regulation*, 1-13; DOI: 10.1007/s00344-017-9760-0, @2017
74. Ranjan A., Jayaraman D., Grau C., Hill J.H., Whitham S.A., Ané J.-M., Smith D.L., Kabbage M. (May 2017) The pathogenic development of *Sclerotinia sclerotiorum* in soybean requires specific host NADPH oxidases. *Molecular Plant Pathology*. DOI: 10.1111/mpp.12555, @2017
75. Rivas R, Frosi G, Ramos DG, Pereira S, Benko-Iseppon AM, Santos MG (Sep 2017) Photosynthetic limitation and mechanisms of photoprotection under drought and recovery of *Calotropis procera*, an evergreen C3 from arid regions. *Plant Physiology and Biochemistry*, 118, 589-599; DOI: 10.1016/j.plaphy.2017.07.026, @2017
76. Sarabi, B., Bolandnazar, S., Ghaderi, N., Ghashghaie, H. (Oct 2017) Genotypic differences in physiological and bio-chemical responses to salinity stress in melon (*Cucumis melo* L.) plants: Prospects for selection of salt tolerant land-races. *Plant Physiology and Biochemistry*, 119, 294-311; DOI: 10.1016/j.plaphy.2017.09.006, @2017
77. Schaberg P.G., Murakami P.F., Butnor J.R., Hawley G.J. (2017) Experimental branch cooling increases foliar sugar and anthocyanin concentrations in sugar maple at the end of the growing season. *Canadian Journal of Forest Research*, 47(5) 696-701; DOI: 10.1139/cjfr-2016-0534, @2017
78. Sharma IP, AK Sharma (2017) - Physiological and biochemical changes in tomato cultivar PT-3 with dual inoculation of mycorrhiza and PGPR against root-knot nematode. *Symbiosis*, 71(3), 175–183., @2017
79. Silveira N.M., Marcos F.C.C., Frungillo L., Moura B.B., Seabra A.B., Salgado I., Machado E.C., Hancock J.T., Ribeiro R.V. (2017) S-nitrosoglutathione spraying improves stomatal conductance, Rubisco activity and antioxidant defense in both leaves and roots of sugarcane plants under water deficit. *Physiol Plantarum*, 160, 383–395. DOI: 10.1111/ppl.12575, @2017
80. Singh G, Saema S, Singh S, Misra P (2017) Effect of antioxidant protection system on regeneration potential of different chemotypes of *Withania somnifera* (L.) Dunal – A comparative analysis. *Indian Journal of Experimental Biology*, 55, 242-250; ISSN: 0975-1009 (Online), @2017 [Линк](#)
81. Smaili A, Mazoir N, Rifai LA, Koussa T, Makroum K, Kabil EM, Benharref A, Faize M (2017) Triterpene derivatives from *Euphorbia* enhance resistance against *Verticillium* wilt of tomato. *Phytochemistry*, 135, 169-180; DOI: 10.1016/j.phytochem.2016.12.017, @2017
82. Smaili A, Rifai LA, Esserti S, Koussa T, Bentiss F, Guesmi S, Laachir A, Faize M (Oct 2017) Copper complexes of the 1, 3, 4-thiadiazole derivatives modulate antioxidant defense responses and resistance in tomato plants against fungal and bacterial diseases. *Pesticide Biochemistry and Physiology*, ; DOI: 10.1016/j.pestbp.2017.10.002, @2017
83. Souza LA, FA Piotto, MN Dourado, D Schmidt, MR Franco, LF Boaretto, T Tezotto, RR Ferreira, RA Azevedo (2017) - Physiological and biochemical responses of *Dolichos lablab* L. to cadmium support its potential as a cadmium phytoremediator. *J Soils Sediments*, 17(5), 1413–1426., @2017
84. Sun M., Feng XX, Gao JJ, Peng RH, Yao QH, Wang LJ (2017) VvMYBA6 in the promotion of anthocyanin biosynthesis and salt tolerance in transgenic *Arabidopsis*. *Plant Biotechnology Reports*, ;DOI: 10.1007/s11816-017-0452-9, @2017

85. Teixeira WF, Fagan EB, Soares LH, Umburanas RC, Reichardt K, Neto DD (2017) Foliar and seed application of amino acids affects the antioxidant metabolism of the soybean crop. *Frontiers in Plant Science*, 8, 327; DOI: 10.3389/fpls.2017.00327, @2017
86. Wu ZC, Liu S, Zhao J, Wang F, Du YQ, Zou S, Li HM, Wen D, Huang YD. (Jan 2017) Comparative responses to silicon and selenium in relation to antioxidant enzyme system and the glutathione-ascorbate cycle in flowering Chi-nese cabbage (*Brassica campestris* L. ssp. *chinensis* var. *utilis*) under cadmium stress. *Environmental and Experimental Botany*, 133, 1–11; DOI: 10.1016/j.envexpbot.2016.09.005, @2017
87. Yao XM, Zhang J, Ji J, Yue JY, Xie TT, Deng N, Liu JF, Shi SQ, Jiang ZP, Chang E (2017) *Platycladus orientalis* PoKub3 is involved in abiotic stress responses in transgenic *Arabidopsis*. *J. Plant Biol.*, 60, 322-334; DOI 10.1007/s12374-016-0557-7, @2017
88. Zhou R, X Yu, C-O Ottosen, E Rosenqvist, L Zhao, Y Wang, W Yu, T Zhao, Z Wu (2017) - Drought stress had a predominant effect over heat stress on three tomato cultivars subjected to combined stress. *BMC Plant Biology*, DOI: 10.1186/s12870-017-0974-x, @2017 [Линк](#)
89. Zine H, Rifai LA, Koussa T, Bentiss F, Guesmi S, Laachir A, Makroum K, Belfaiza M, Faize M (2017) - The mononuclear nickel(II) complex bis(azido-κN)bis[2, 5-bis(pyridin-2-yl)-1, 3, 4-thiadiazole-κ2N2, N3]nickel(II) protects tomato from *Verticillium dahliae* by inhibiting fungal growth and activating plant defences. *Pest. Manag. Sci.*, 73: 188–197. doi:10.1002/ps.4285, @2017 [Линк](#)
90. Agnihotri A, Gupta P, Dwivedi A, CS Seth (2018) Counteractive mechanism (s) of salicylic acid in response to lead toxicity in *Brassica juncea* (L.) Czern. cv. Varuna. *Planta*, 248: 49. <https://doi.org/10.1007/s00425-018-2867-0>, @2018
91. Barcelos JP, Reis HP, Godoy CV, Gratão PL, Furlani Junior E, Putti FF, Campos M, Reis AR (2018) Impact of foliar nickel application on urease activity, antioxidant metabolism and control of powdery mildew (*Microspheera diffusa*) in soybean plants. *Plant Pathol*, 67: 1502-1513., @2018 [Линк](#)
92. Belgaroui N, B Lacombe, H Rouached, M Hanin (2018) Phytase overexpression in *Arabidopsis* improves plant growth under osmotic stress and in combination with phosphate deficiency. *Scientific Reports*, 8, Article number: 1137, @2018 [Линк](#)
93. Borges KLR, F Salvato, BK Alcântara, RS Nalin, FÂ Piotto, RA Azevedo (2018) Temporal dynamic responses of roots in contrasting tomato genotypes to cadmium tolerance. *Ecotoxicology*, 27(3), 245–258., @2018 [Линк](#)
94. Carvajal F, R Rosales, F Palma, S Manzano, J Cañizares, M Jamilena, D Garrido (2018) Transcriptomic changes in *Cucurbita pepo* fruit after cold storage: differential response between two cultivars contrasting in chilling sensitivity. *BMC Genomics*, 19:125, @2018 [Линк](#)
95. Carvalho MEA, FA Piotto, MR Franco, KLR Borges, SA Gaziola, PRC Castro, RA Azevedo (2018) Cadmium toxicity degree on tomato development is associated with disbalances in B and Mn status at early stages of plant exposure. *Ecotoxicology*, 27(10): 1293-1302., @2018 [Линк](#)
96. Carvalho MEA, PRC Castro, SA Gaziola, RA Azevedo (2018) Is seaweed extract an elicitor compound? Changing proline content in drought-stressed bean plants. *Comunicata Scientiae* 9(2): 292-297., @2018 [Линк](#)
97. Chandra D, R Srivastava, AK Sharma (2018) Influence of IAA and ACC Deaminase Producing Fluorescent *Pseudomonads* in Alleviating Drought Stress in Wheat (*Triticum aestivum*). *Agricultural Research*, 7(3), 290–299., @2018 [Линк](#)
98. Chrysargyris A, P Xylia, O Antoniou, N Tzortzakis (2018) Climate change due to heat and drought stress can alter the physiology of Maratheftiko local Cyprian grapevine variety. *Journal of Water and Climate Change*, 9(4): 715-727., @2018 [Линк](#)
99. Cui G, B Li, W He, X Yin, S Liu, L Lian, Y Zhang, W Liang, P Zhang (2018) Physiological analysis of the effect of altitudinal gradients on *Leymus secalinus* on the Qinghai-Tibetan Plateau. *PLoS ONE* 13(9): e0202881., @2018 [Линк](#)



100. Dias DS, LM Ribeiro, PSN Lopes, GA Melo, M Müller, S Munné-Bosch (2018) Haustorium–endosperm relationships and the integration between developmental pathways during reserve mobilization in *Butia capitata* (Arecaceae) seeds. *Annals of Botany*, 122(2), 267–277, , @2018 [Линк](#)
101. Ding H, Q Han, D Ma, J Hou, X Huang, C Wang, Y Xie, G Kang, T Guo (2018) Characterizing Physiological and Proteomic Analysis of the Action of H<sub>2</sub>S to Mitigate Drought Stress in Young Seedling of Wheat. *Plant Molecular Biology Reporter*, 36(1), 45–57., @2018 [Линк](#)
102. Duc NH, Z Csintalan, K Posta (2018) Arbuscular mycorrhizal fungi mitigate negative effects of combined drought and heat stress on tomato plants. *Plant Physiology and Biochemistry*, 132, 297–307., @2018 [Линк](#)
103. Dutta T., Neelapu N.R.R., Wani S.H., Challa S. (2018) Response of Pulses to Drought and Salinity Stress Response: A Physiological Perspective. In: Wani S., Jain M. (eds) *Pulse Improvement*. Springer, Cham, 77–98., @2018 [Линк](#)
104. Einali A (2018) The induction of salt stress tolerance by propyl gallate treatment in green microalga *Dunaliella bardawil*, through enhancing ascorbate pool and antioxidant enzymes activity. *Protoplasma*, 255(2), 601–611., @2018 [Линк](#)
105. Esposito MP, RK Nakazato, ANVaz Pedroso, MEL Lima, MA Figueiredo, AP Diniz, AR Kozovits, M Domingos (2018) Oxidant-antioxidant balance and tolerance against oxidative stress in pioneer and non-pioneer tree species from the remaining Atlantic Forest. *Science of The Total Environment*, 625, 382–393., @2018 [Линк](#)
106. Esserti S, A Smaili, K Makroum, M Belfaiza, LA Rifai, T Koussa, I Kasmi, M Faize (2018) Priming of *Nicotiana benthamiana* antioxidant defences using brown seaweed extracts. *J Phytopathol*, 166, 86–94., @2018 [Линк](#)
107. Fatima A, AA Singh, A Mukherjee, M Agrawal, Sbhushan Agrawal (2018) Variability in defence mechanism operating in three wheat cultivars having different levels of sensitivity against elevated ozone. *Environmental and Experimental Botany*, 155, 66–78., @2018 [Линк](#)
108. Filho EGA, LN Braga, LMA Silva, FR Miranda, EO Silva, KM Canuto, MR Miranda, ES de Brito, GJ Zocolo (2018) Physiological changes for drought resistance in different species of *Phyllanthus*. *Scientific Reports*, 8, Article number: 15141., @2018 [Линк](#)
109. Furlan F, L Borgo, FHS Rabêlo, ML Rossi, AP Martinelli, RA Azevedo, J Lavres (2018) Aluminum-induced stress differently modifies *Urochloa* genotypes responses on growth and regrowth: root-to-shoot Al-translocation and oxidative stress. *Theoretical and Experimental Plant Physiology*, 30(2), 141–152., @2018 [Линк](#)
110. Gaion LA, CC Monteiro, FJR Cruz, DR Rossatto, IL Lopez-Díaz, E Carrera, JE Lima, LEP Peres, RF Carvalho (2018) Constitutive gibberellin response in grafted tomato modulates root-to-shoot signaling under drought stress. *Journal of Plant Physiology*, 221, 11–21., @2018 [Линк](#)
111. Ghanbari, F., & Sayyari, M. (2018). Controlled drought stress affects the chilling-hardening capacity of tomato seed-lings as indicated by changes in phenol metabolisms, antioxidant enzymes activity, osmolytes concentration and ab-scisic acid accumulation. *Scientia Horticulturae*, 229, 167–174; DOI: 10.1016/j.scienta.2017.10.009, @2018 [Линк](#)
112. Han D, H Ding, L Chai, W Liu, Z Zhang, Y Hou, G Yang (2018) Isolation and characterization of MbWRKY1, a WRKY transcription factor gene from *Malus baccata* (L.) Borkh involved in drought tolerance. *Canadian Journal of Plant Science*, 2018, 98(5): 1023–1034., @2018 [Линк](#)
113. Han D, Y Hou, Y Wang, B Ni, Z Li, G Yang, Pro (2018) Overexpression of a *Malus baccata* WRKY transcription factor gene (MbWRKY5) increases drought and salt tolerance in transgenic tobacco. *Canadian Journal of Plant Science*, 99(2), 173–183, <https://doi.org/10.1139/CJPS-2018-0053>, @2018 [Линк](#)
114. Han D, Z Zhang, H Ding, L Chai, W Liu, H Li, G Yang (2018) Isolation and characterization of MbWRKY2 gene involved in enhanced drought tolerance in transgenic tobacco. *Journal of Plant Interactions*, 13:1, 163–172, DOI: 10.1080/17429145.2018.1447698, @2018 [Линк](#)

115. Han D, Z Zhang, H Ding, Y Wang, W Liu, H Li, G Yang (2018) Molecular cloning and functional analysis of MbWRKY3 involved in improved drought tolerance in transformed tobacco, *Journal of Plant Interactions*, 13:1, 329-337, DOI: 10.1080/17429145.2018.1478994, @2018 [Линк](#)
116. Hasan MU, F Ma, ZH Prodhan, F Li, H Shen, Y Chen, X Wang (2018) Molecular and Physio-Biochemical Characterization of Cotton Species for Assessing Drought Stress Tolerance. *Int. J. Mol. Sci.*, 19(9), 2636., @2018 [Линк](#)
117. Hasanuzzaman M, Mahmud JA, Anee TI, Nahar K, Islam MT (2018) Drought Stress Tolerance in Wheat: Omics Approaches in Understanding and Enhancing Antioxidant Defense. In: Zargar S., Zargar M. (eds) *Abiotic Stress-Mediated Sensing and Signaling in Plants: An Omics Perspective*. Springer, Singapore. doi: [https://doi.org/10.1007/978-981-10-7479-0\\_10](https://doi.org/10.1007/978-981-10-7479-0_10), @2018 [Линк](#)
118. Hashem HA, AA Hassanein, NY Esmail (2018) Nitric oxide (NO) enhances the adaptive responses of lupine plants against heavy-metal stress. *AJCS* 12(12): 1962-1974., @2018 [Линк](#)
119. Hippler FWR, G Peten RM Boaretto, JA Quaggio, RA Azevedo, D Mattos-Jr (2018) Mechanisms of copper stress alleviation in Citrus trees after metal uptake by leaves or roots. *Environ Sci Pollut Res* (2018) 25: 13134-13146., @2018 [Линк](#)
120. Hippler FWR, R M Boaretto, VL DAVIS, JA Quaggio, RA Azevedo, D Mattos-Jr (2018) Oxidative stress induced by Cu nutritional disorders in Citrus depends on nitrogen and calcium availability. *Scientific Reports*, volume 8, Article number: 1641., @2018 [Линк](#)
121. Hui R, R Zhao, G Song, Y Li, Y Zhao, Y Wang (2018) Effects of enhanced ultraviolet-B radiation, water deficit, and their combination on UV-absorbing compounds and osmotic adjustment substances in two different moss species. *Environmental Science and Pollution Research*, 25(15), 14953–14963, @2018 [Линк](#)
122. Hussain HA, S Hussain, A Khaliq, U Ashraf, SA Anjum, S Men, L Wang (2018) Chilling and Drought Stresses in Crop Plants: Implications, Cross Talk, and Potential Management Opportunities. *Front. Plant Sci.*, <https://doi.org/10.3389/fpls.2018.00393>, @2018 [Линк](#)
123. Isah T, S Umar (2018) Influencing in vitro clonal propagation of *Chonemorpha fragrans* (moon) Alston by culture media strength, plant growth regulators, carbon source and photo periodic incubation. *J. For. Res.* (2018). 1-17., @2018 [Линк](#)
124. Kaur M, S Sharma (2018) Influence of selenite and selenate on growth, leaf physiology and antioxidant defense system in wheat (*Triticum aestivum* L.). *J Sci Food & Agric*, 98(15), 5700-5710, @2018 [Линк](#)
125. Kavroulakis N, G Doupis, IE Papadakis, C Ehaliotis, KK Papadopoulou (2018) Tolerance of tomato plants to water stress is improved by the root endophyte *Fusarium solani* Fsk. *Rhizosphere*, 6, 77-85., @2018 [Линк](#)
126. Khamsuk O, W Sonjaron, S Suwanwong, K Jutamanee, A Suksamrarn (2018) Effects of 24-epibrassinolide and the synthetic brassinosteroid mimic on chili pepper under drought. *Acta Physiologiae Plantarum*, 40: 106., @2018 [Линк](#)
127. Khatun MA, Hossain MM, Bari MA, Abdullahil KM, Parvez MS, Alam MF, Kabir AH (2018) Zinc deficiency tolerance in maize is associated with the up-regulation of Zn transporter genes and antioxidant activities. *Plant Biol J*, 20: 765-770., @2018 [Линк](#)
128. Li C, Y Song, L Guo, X Gu, MA Muminov, T Wang (2018) Nitric oxide alleviates wheat yield reduction by protecting photosynthetic system from oxidation of ozone pollution. *Environmental Pollution*, 236, 296-303., @2018 [Линк](#)
129. Lou L, X Li, J Chen, Y Li, Y Tang, J Lv (2018) Photosynthetic and ascorbate-glutathione metabolism in the flag leaves as compared to spikes under drought stress of winter wheat (*Triticum aestivum* L.). *PLoS ONE* 13(3): e0194625., @2018 [Линк](#)
130. Mahawar L, R Kumar, GS Shekhawat (2018) Evaluation of heme oxygenase 1 (HO 1) in Cd and Ni induced cytotoxicity and crosstalk with ROS quenching enzymes in two to four leaf stage seedlings of *Vigna radiata*. *Protoplasma*, 255(2), 527–545., @2018 [Линк](#)

131. Marcos FCC, NM Silveira, JB Mokochinski, ACHF Sawaya, PER Marchiori, EC Machado, GM Souza, MGA Landell, RV Ribeiro (2018) Drought tolerance of sugarcane is improved by previous exposure to water deficit. *Journal of Plant Physiology*, 223, 9-18., @2018 [Линк](#)
132. Mariz-Ponte N, RJ Mendes, S Sario, JMP Ferreira de Oliveira, P Melo, C Santos (2018) Tomato plants use non-enzymatic antioxidant pathways to cope with moderate UV-A/B irradiation: A contribution to the use of UV-A/B in horticulture. *Journal of Plant Physiology*, 221, 32-42., @2018 [Линк](#)
133. Mariz-Ponte N, RJ Mendes, S Sario, P Melo, C Santos (2018) Moderate UV-A supplementation benefits tomato seed and seedling invigoration: a contribution to the use of UV in seed technology. *Scientia Horticulturae*, 235, 357-366., @2018 [Линк](#)
134. Mu Z, J Llusà, D Liu, R Ogaya, D Asensio, C Zhang, J Peñuelas (2018) Seasonal and diurnal variations of plant isoprenoid emissions from two dominant species in Mediterranean shrubland and forest submitted to experimental drought. *Atmospheric Environment*, 191, 105-115., @2018 [Линк](#)
135. Naguib DM (2018) Control of Fusarium wilt in wheat seedlings by grain priming with defensin-like protein. *Egyptian Journal of Biological Pest Control*, <https://doi.org/10.1186/s41938-018-0073-9>, @2018 [Линк](#)
136. Nath M, D Bhatt, A Jain, SC Saxena, SK Saifi, SYadav, M Negi, R Prasad, N Tuteja (2018) Salt stress triggers augmented levels of Na<sup>+</sup>, Ca<sup>2+</sup> and ROS and alter stress-responsive gene expression in roots of CBL9 and CIPK23 knockout mutants of *Arabidopsis thaliana*. *Environmental and Experimental Botany*, <https://doi.org/10.1016/j.envexpbot.2018.10.005>, @2018 [Линк](#)
137. Nikalje GC, PS Variyar, MV Joshi, TD Nikam, P Suprasanna (2018) Temporal and spatial changes in ion homeostasis, antioxidant defense and accumulation of flavonoids and glycolipid in a halophyte *Sesuvium portulacastrum* (L.) L. *PLoS ONE* 13(4): e0193394. <https://doi.org/10.1371/journal.pone.0193394>, @2018 [Линк](#)
138. Niu L, R Cao, J Kang, X Zhang, J Lv (2018) Ascorbate-Glutathione Cycle and Ultrastructural Analyses of Two Kenaf Cultivars (*Hibiscus cannabinus* L.) under Chromium Stress. *Int. J. Environ. Res. Public Health*, 15(7), 1467, @2018 [Линк](#)
139. Nováková S, M Danchenko, L Skultety, I Fialová, A Lešková, G Beke, G Flores-Ramírez, M Glasa (2018) Photosynthetic and Stress Responsive Proteins Are Altered More Effectively in *Nicotiana benthamiana* Infected with Plum pox virus Aggressive PPV-CR versus Mild PPV-C Cherry-Adapted Isolates. *J. Proteome Res.*, 17(9), 3114–3127., @2018 [Линк](#)
140. Pandey C, M Gupta (2018) Selenium amelioration of arsenic toxicity in rice shows genotypic variation: A transcriptomic and biochemical analysis. *Journal of Plant Physiology*, 231, 168-181., @2018 [Линк](#)
141. Pandey V, AK Tewari, D Saxena (2018) Activities of Defensive Antioxidant Enzymes and Biochemical Compounds Induced by Bioagents in Indian Mustard Against *Alternaria* Blight. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 88(4), 1507–1516., @2018 [Линк](#)
142. Papalia T., Panuccio M.R., Sidari M., Muscolo A. (2018) Reactive Oxygen Species and Antioxidant Enzymatic Systems in Plants: Role and Methods. In: Sánchez-Moreiras A., Reigosa M. (eds) *Advances in Plant Ecophysiology Techniques*. Springer, Cham, 177-193., @2018 [Линк](#)
143. Piotrowska-Niczyporuk A, A Bajguz, E Zambrzycka-Szelewa, M Bralska (2018) Exogenously applied auxins and cytokinins ameliorate lead toxicity by inducing antioxidant defence system in green alga *Acutodesmus obliquus*. *Plant Physiology and Biochemistry*, 132, 535-546., @2018 [Линк](#)
144. Piotrowska-Niczyporuk A, A Bajguz, U Kotowska, M Bralska, M Talarek-Karwel (2018) Growth, Metabolite Profile, Oxidative Status, and Phytohormone Levels in the Green Alga *Acutodesmus obliquus* Exposed to Exogenous Auxins and Cytokinins. *J Plant Growth Regul*, 37: 1159., @2018 [Линк](#)
145. Pirasteh-Anosheh H, Y Emam (2018) Modulation of oxidative damage due to salt stress using salicylic acid in *Hordeum vulgare*, *Archives of Agronomy and Soil Science*, 64:9, 1268-1277, DOI: 10.1080/03650340.2018.1423556, @2018 [Линк](#)

146. Praveen A, E Khan, S Ngiime D, M Perwez, M Sardar, M Gupta (2018) Iron Oxide Nanoparticles as Nano-adsorbents: A Possible Way to Reduce Arsenic Phytotoxicity in Indian Mustard Plant (*Brassica juncea* L.) *J Plant Growth Regul*, 37 (2): 612-624., @2018 [Линк](#)
147. Praveen A, M Gupta (2018) Nitric oxide confronts arsenic stimulated oxidative stress and root architecture through distinct gene expression of auxin transporters, nutrient related genes and modulates biochemical responses in *Oryza sativa* L. *Environmental Pollution*, 240, 950-962., @2018 [Линк](#)
148. Qiao F, X-M Zhang, X Liu, J Chen, W-J Hu, T-W Liu, J-Y Liu, C-Q Zhu, K Ghoto, X-Y Zhu, H-L Zheng (2018) Elevated nitrogen metabolism and nitric oxide production are involved in *Arabidopsis* resistance to acid rain. *Plant Physiology and Biochemistry*, 127, 238-247., @2018 [Линк](#)
149. Rabêlo FHS, BKA da Silva, L Borgo, E Keunen, ML Rossi, KLR Borges, EF Santos, AR Reis, AP Martinelli, RA Azevedo, A Cuypers, J Lavres (2018) Enzymatic antioxidants—Relevant or not to protect the photosynthetic system against cadmium-induced stress in Massai grass supplied with sulfur? *Environmental and Experimental Botany*, 155, 702-717., @2018 [Линк](#)
150. Rahman M, SA Sajib, S Rahi, S Tahura, NC Roy, S Parvez, A Reza, MR Talukder, AH Kabir (2018) Mechanisms and Signaling Associated with LPDBD Plasma Mediated Growth Improvement in Wheat. *Scientific Reports*, 8:10498, DOI:10.1038/s41598-018-28960-3, @2018 [Линк](#)
151. Rao V, BP Petla, P Verma, P Salvi, NU Kamble, S Ghosh, H Kaur, SC Saxena, M Majee (2018) *Arabidopsis* SKP1-like protein13 positively regulates seed germination and seedling growth under abiotic stress. *Journal of Experimental Botany*, 69(16), 3899–3915., @2018 [Линк](#)
152. Reis HPG, JPQ Barcelos, E Furlani Junior, EF Santos, VM Silva, MF Moraes, FF Putti, AR Reis (2018) Agronomic biofortification of upland rice with selenium and nitrogen and its relation to grain quality. *Journal of Cereal Science*, 79, 508-515., @2018 [Линк](#)
153. Riboldi RB, SA Gaziola, RA Azevedo, ST de Freitas, PRC Castro (2018) 24-Epibrassinolide Mechanisms Regulating Blossom-End Rot Development in Tomato Fruit. *J Plant Growth Regul*, <https://doi.org/10.1007/s00344-018-9892-x>, @2018 [Линк](#)
154. Sarker U, S Oba (2018) Catalase, superoxide dismutase and ascorbate-glutathione cycle enzymes confer drought tolerance of *Amaranthus tricolor*. *Scientific Reports*, volume 8, Article number: 16496, @2018 [Линк](#)
155. Sarmadi M, N Karimi, J Palazón, A Ghassempour, MH Mirjalili (2018) The effects of salicylic acid and glucose on biochemical traits and taxane production in a *Taxus baccata* callus culture. *Plant Physiology and Biochemistry*, 132, 2018, 271-280., @2018 [Линк](#)
156. Silva VM, EHM Boleta, MGDB Lanza, J Lavres, JT Martins, EF Santos, FLM Santos, FF Putti, EF Junior, PJ White, MR Broadley, HWP Carvalho, AR Reis (2018) Physiological, biochemical, and ultrastructural characterization of selenium toxicity in cowpea plants. *Environmental and Experimental Botany*, 150, 172-182., @2018 [Линк](#)
157. Singh AA, M Chaurasia, V Gupta, M Agrawal, SB Agrawal (2018) Responses of *Zea mays* L. cultivars 'Buland' and 'Prakash' to an antiozonant ethylene diurea grown under ambient and elevated levels of ozone *Acta Physiol Plant* (2018) 40: 92., @2018 [Линк](#)
158. Smaili A, A Laachir, LA Rifai, T Koussa, F Bentiss, S Guesmi, M Faize (2018) Effect of altering the steric hindrance of the nitrogen atom in 2, 5-bis(pyridin-n-yl)-1, 3, 4 thiadiazole isomers on their ability to elicit tomato defense responses against *Verticillium* wilt and crown gall diseases. *European Journal of Plant Pathology*, 151(4), 1035–1048., @2018 [Линк](#)
159. Srinivasan R, A Mageswari, P Subramanian, C Suganthi, A Chaitanyakumar, V Aswini, KM Gothandam (2018) Bicarbonate supplementation enhances growth and biochemical composition of *Dunaliella salina* V-101 by reducing oxidative stress induced during macronutrient deficit conditions. *Scientific Reports*, volume 8, Article number: 6972., @2018 [Линк](#)
160. Sun M, Jiang F, Cen B, Wen J, Zhou Y, Wu Z (2018) Respiratory burst oxidase homologue-dependent H<sub>2</sub>O<sub>2</sub> and chloroplast H<sub>2</sub>O<sub>2</sub> are essential for the maintenance of acquired thermotolerance during recovery after acclimation. *Plant Cell Environ*, 41:2373–2389., @2018 [Линк](#)

161. Szepes Ai, R Szöllősi (2018) Chapter 17 - Mechanism of Proline Biosynthesis and Role of Proline Metabolism Enzymes Under Environmental Stress in Plants, Editor(s): P Ahmad, MA Ahanger, VP Singh, DK Tripathi, P Alam, MN Alyemeni, Plant Metabolites and Regulation Under Environmental Stress, Academic Press, 337-353., @2018 [Линк](#)
162. Takshak S, Agrawal SB (2018) Interactive effects of supplemental ultraviolet-B radiation and indole-3-acetic acid on *Coleus forskohlii* Briq.: Alterations in morphological-, physiological-, and biochemical characteristics and essential oil content. *Ecotoxicology and Environmental Safety*, 147, 313-326, @2018 [Линк](#)
163. Talarek-Karwel M, A Bajguz, A Piotrowska-Niczyporuk, I Rajewska (2018) The effect of 24-epibrassinolide on the green alga *Acutodesmus obliquus* (Chlorophyceae). *Plant Physiology and Biochemistry*, 124, 175-183., @2018 [Линк](#)
164. Verdaguer D, L Díaz-Guerra, J Font, JA González, L Llorens (2018) Contrasting seasonal morphological and physio-biochemical responses to UV radiation and reduced rainfall of two mature naturally growing Mediterranean shrubs in the context of climate change. *Environmental and Experimental Botany*, 147, 189-201., @2018 [Линк](#)
165. Vergara-Díaz O, F Chairi, R Vicente, JA Fernandez-Gallego, MT Nieto-Taladriz, N Aparicio, SC Kefauver, JL Araus (2018) Leaf dorsoventrality as a paramount factor determining spectral performance in field-grown wheat under contrasting water regimes. *Journal of Experimental Botany*, 69(12), 3081–3094., @2018 [Линк](#)
166. Wang J, L Zhang, Y Cao, C Qi, S Li, L Liu, G Wang, A Mao, S Ren, Y-D Guo (2018) CsATAF1 Positively Regulates Drought Stress Tolerance by an ABA-Dependent Pathway and by Promoting ROS Scavenging in Cucumber. *Plant and Cell Physiology*, 59(5), 930–945., @2018 [Линк](#)
167. Wang J, W Lian, Y Cao, X Wang, G Wang, C Qi, L Liu, S Qin, X Yuan, X Li, S Ren, Y-D Guo (2018) Overexpression of BoNAC019, a NAC transcription factor from *Brassica oleracea*, negatively regulates the dehydration response and anthocyanin biosynthesis in *Arabidopsis*. *Scientific Reports*, 8, Article number: 13349., @2018 [Линк](#)
168. Wang S, B Zhou, W Yao, T Jiang (2018) PsnERF75 Transcription Factor from *Populus simonii* × *P. nigra* Confers Salt Tolerance in Transgenic *Arabidopsis*. *Journal of Plant Biology* 61(2), 61–71., @2018 [Линк](#)
169. Wang X, L Wu, J Xie, T Li, J Cai, Q Zhou, T Dai, D Jiang (2018) Herbicide isoproturon aggravates the damage of low temperature stress and exogenous ascorbic acid alleviates the combined stress in wheat seedlings. *Plant Growth Regulation*, 84(2), 293–301., @2018 [Линк](#)
170. Yan X, J Huang, X Xu, D Chen, X Xie, Q Tao, J He, J Jian (2018) Enhanced and Complete Removal of Phenylurea Herbicides by Combinational Transgenic Plant-Microbe Remediation. *Appl. Environ. Microbiol.* 84(14) e00273-18; DOI: 10.1128/AEM.00273-18, @2018 [Линк](#)
171. Yang L, J Zeng, P Wang, J Zhu (2018) Sodium hydrosulfide alleviates cadmium toxicity by changing cadmium chemical forms and increasing the activities of antioxidant enzymes in *salix*. *Environmental and Experimental Botany*, 156, 161-169., @2018 [Линк](#)
172. Yang LP, J Zhu, P Wang, J Zeng, Rtan, YZ Yang, ZM Liu (2018) Effect of Cd on growth, physiological response, Cd subcellular distribution and chemical forms of *Koeleria paniculata*. *Ecotoxicology and Environmental Safety*, 160, 10-18., @2018 [Линк](#)
173. Yotsova EK, AG Dobrikova, MA Stefanov, M Kouzmanova, EL Apostolova (2018) Improvement of the rice photosynthetic apparatus defence under cadmium stress modulated by salicylic acid supply to roots. *Theor. Exp. Plant Physiol.* (2018) 30: 57., @2018 [Линк](#)
174. Younas M, S Drouet, M Nadeem, N Giglioli-Guivarc'h, C Hano, BH Abbasi (2018) Differential accumulation of silymarin induced by exposure of *Silybum marianum* L. callus cultures to several spectres of monochromatic lights. *Journal of Photochemistry and Photobiology B: Biology*, 184, 61-70., @2018 [Линк](#)
175. Yugandhar P, Y Sun, L Liu, M Negi, V Nallamothu, S Sun, S Neelamraju, V Rai, A Jain (2018) Characterization of the loss-of-function mutant NH101 for yield under phosphate deficiency from EMS-induced mutants of rice variety Nagina22, *Plant Physiology and Biochemistry*, 130, 1-13., @2018 [Линк](#)

176. Zrckova M., Capouchova I., Eliášová M., Paznocht L., Pazderů K., Dvořák P., Konvalina P., Orsák M., Štěřba Z. (2018): The effect of genotype, weather conditions and cropping system on antioxidant activity and content of selected antioxidant compounds in wheat with coloured grain. *Plant Soil Environ.*, 64: 530-538., @2018 [Линк](#)
177. Abdel-Aziz HMM, MNA Hasaneen AM Omer (2019) Impact of engineered nanomaterials either alone or loaded with NPK on growth and productivity of French bean plants: Seed priming vs foliar application. *South African Journal of Botany*, 125, 102-108., @2019 [Линк](#)
178. Ahmadi T, L Shabani, MR Sabzalian (2019) Improvement in drought tolerance of lemon balm, *Melissa officinalis* L. under the pre-treatment of LED lighting. *Plant Physiology and Biochemistry*, 139, 548-557., @2019 [Линк](#)
179. Ahmed N, Y Zhang, K Li, Y Zhou, M Zhang, Z Li (2019) Exogenous application of glycine betaine improved water use efficiency in winter wheat (*Triticum aestivum* L.) via modulating photosynthetic efficiency and antioxidative capacity under conventional and limited irrigation conditions. *The Crop Journal*, 7(5), 635-650., @2019 [Линк](#)
180. Akbari E, M Gholami, C Ghobadi (2019) Shelf-life and quality attributes in fresh-cut pear cv. Shahmive treated with different kinds of antioxidants. *Journal of Food Science and Technology*, 56(9), 3998–4008., @2019 [Линк](#)
181. Alzandi AA, DMNaguib (2019) *Pseudomonas fluorescens* metabolites as bioprimer agent for systemic resistance induction in tomato against *Fusarium* wilt. *Rhizosphere*, 11, 100168, @2019 [Линк](#)
182. Bahador E, A Einali, O Azizian-Shermeh, MH Sangtarash (2019) Metabolic responses of the green microalga *Dunaliella salina* to silver nanoparticles-induced oxidative stress in the presence of salicylic acid treatment. *Aquatic Toxicology*, 217, 105356., @2019 [Линк](#)
183. Ballas JP, SF Matter (2019) UV-induced anthocyanin in the host plant *Sedum lanceolatum* has little effect on feeding by larval *Parnassius smintheus*. *Alp Botany*, 1-6, @2019 [Линк](#)
184. Bari A, S Akther, A Reza, AH Kabir (2019) Cadmium tolerance is associated with the root-driven coordination of cadmium sequestration, iron regulation, and ROS scavenging in rice. *Plant Physiology and Biochemistry*, 136, 22-33., @2019 [Линк](#)
185. Barik J, D Panda, SK Mohanty, SK Lenka (2019) Leaf photosynthesis and antioxidant response in selected traditional rice landraces of Jeypore tract of Odisha, India to submergence. *Physiology and Molecular Biology of Plants*, 25(4), 847–86., @2019 [Линк](#)
186. Bianchi E, R Benesperi, I Colzi, A Coppi, L Lazzaro, L Paoli, A Papini, S Pignattelli, Ctani, P Vignolini, C Gonnelli (2019) The multi-purpose role of hairiness in the lichens of coastal environments: Insights from *Seiophora villosa* (Ach.) Frödén. *Plant Physiology and Biochemistry*, 141, 398-406., @2019 [Линк](#)
187. Blagojevic D, YK Lee, L Xie, DA Brede, L Nybakken, OC Lind, KE Tollefsen, B Salbu, KA Solhaug, JE Olsen (2019) No evidence of a protective or cumulative negative effect of UV-B on growth inhibition induced by gamma radiation in Scots pine (*Pinus sylvestris*) seedlings. *Photochem. Photobiol. Sci.*, 18, 1945-1962., @2019 [Линк](#)
188. Borges KLR, F Salvato, PL Loziuk, DC Muddiman, RA Azevedo (2019) Quantitative proteomic analysis of tomato genotypes with differential cadmium tolerance. *Environmental Science and Pollution Research*, 26(25), 26039–26051., @2019 [Линк](#)
189. Borjas-Ventura R, Alves LR, de Oliveira R, Martínez CA, Gratão PL (2019) Impacts of warming and water deficit on antioxidant responses in *Panicum maximum* Jacq. *Physiol Plantarum*, 165(2), 413-426, @2019 [Линк](#)
190. Boschiero BN, E Mariano, RA Azevedo, PCO Trivelin (2019) Influence of nitrate - ammonium ratio on the growth, nutrition, and metabolism of sugarcane. *Plant Physiology and Biochemistry*, 139, 246-255., @2019 [Линк](#)
191. Carvalho MEA, FA Piotto, MR Franco, ML Rossi, AP Martinelli, A Cuypers, RA Azevedo (2019) Relationship between Mg, B and Mn status and tomato tolerance against Cd toxicity. *Journal of Environmental Management*, 240, 84-92., @2019 [Линк](#)

192. Chadha A, SK Florentine, BS Chauhan, B Long, M Jayasundera (2019) Influence of soil moisture regimes on growth, photosynthetic capacity, leaf biochemistry and reproductive capabilities of the invasive agronomic weed; *Lactuca serriola*. *PLoS ONE*, 14(6): e0218191., @2019 [Линк](#)
193. Chandra D, R Srivastava, VVSR Gupta, CMM Franco, AK Sharma (2019) Evaluation of ACC-deaminase-producing rhizobacteria to alleviate water-stress impacts in wheat (*Triticum aestivum* L.) plants. *Canadian Journal of Microbiology*, 65(5): 387-403., @2019 [Линк](#)
194. Charfeddine M, M Samet, S Charfeddine, D Bouaziz, RG Bouzid (2019) Ectopic Expression of StERF94 Transcription Factor in Potato Plants Improved Resistance to *Fusarium solani* Infection. *Plant Mol Biol Rep*, 37 (5-6): 450-463., @2019 [Линк](#)
195. Charfeddine M, S Charfeddine, I Ghazala, D Bouaziz, RG Bouzid (2019) Investigation of the response to salinity of transgenic potato plants overexpressing the transcription factor StERF94. *J Biosci*, 44: 141., @2019 [Линк](#)
196. Charfeddine S, M Charfeddine, M Hanana, R Gargouri-Bouzid (2019) Ectopic expression of a grape vine vacuolar NHX antiporter enhances transgenic potato plant tolerance to salinity. *Journal of Plant Biochemistry and Biotechnology*, 28(1), 50–62., @2019 [Линк](#)
197. Coccozza C, A Perone, C Giordano, M C Salvatici, S Pignattelli, A Raio, M Schaub, K Sever, J L Innes, R Tognetti, P Cherubini (2019) Silver nanoparticles enter the tree stem faster through leaves than through roots. *Tree Physiology*, 39(7), 1251–1261., @2019 [Линк](#)
198. Coccozza C, F Brilli, L Miozzi, S Pignattelli, S Rotunno, C Brunetti, C Giordano, S Pollastri, M Centritto, GP Accotto, R Tognetti, F Loreto (2019) Impact of high or low levels of phosphorus and high sodium in soils on productivity and stress tolerance of *Arundo donax* plants. *Plant Sci*, 289, <https://doi.org/10.1016/j.plantsci.2019.110260>, @2019 [Линк](#)
199. Cui G, G Ji, S Liu, B Li, L Lian, W He, P Zhang (2019) Physiological adaptations of *Elymus dahuricus* to high altitude on the Qinghai–Tibetan Plateau. *Acta Physiol Plant*, 41: 115. <https://doi.org/10.1007/s11738-019-2904-z>, @2019 [Линк](#)
200. Czégény G, L Kőrösi, Å Strid, É Hideg (2019) Multiple roles for Vitamin B6 in plant acclimation to UV-B. *Scientific Reports*, 9, Article number: 1259., @2019 [Линк](#)
201. de Moraes MB, AG Barbosa-Neto, L Willadino, C Ulisses, TC Junior (2019) Salt Stress Induces Increase in Starch Accumulation in Duckweed (*Lemna aequinoctialis*, Lemnaceae): Biochemical and Physiological Aspects. *J Plant Growth Regul*, 38(2), 683–700., @2019 [Линк](#)
202. de Oliveira RLL, RM Prado, G Felisberto, MV Checchio, PL Gratão (2019) Silicon Mitigates Manganese Deficiency Stress by Regulating the Physiology and Activity of Antioxidant Enzymes in Sorghum Plants. *Journal of Soil Science and Plant Nutrition*, 19(3), 524–534., @2019 [Линк](#)
203. de Souza LM, MR Barbosa, JR Zárate-Salazar, F Lozano-Isla, TR Camara (2019) Use of meta-Topolin, an unconventional cytokinin in the in vitro multiplication of *Opuntia stricta* Haw. *Biot Veg*, 19(2), [http://scielo.sld.cu/scielo.php?script=sci\\_arttext&pid=S2074-86472019000200085](http://scielo.sld.cu/scielo.php?script=sci_arttext&pid=S2074-86472019000200085), @2019 [Линк](#)
204. Deshmukh SA, DK Gaikwad (2019) Effect of water stress and water logging stress on leaf water relations in a medicinally important plant *Basella alba* L.(Basellaceae). *Plant Archives*, 19, 1737-1740., @2019 [Линк](#)
205. Ding H, D Ma, X Huang, J Hou, C Wang, Y Xie, Y Wang, H Qin, T Guo (2019) Exogenous hydrogen sulfide alleviates salt stress by improving antioxidant defenses and the salt overly sensitive pathway in wheat seedlings. *Acta Physiol Plant*, 41: 123. <https://doi.org/10.1007/s11738-019-2918-6>, @2019 [Линк](#)
206. El-Esawi MA, AA Al-Ghamdi, HM Ali, M Ahmad (2019) Overexpression of AtWRKY30 Transcription Factor Enhances Heat and Drought Stress Tolerance in Wheat (*Triticum aestivum* L.). *Genes* 2019, 10(2), 163; <https://doi.org/10.3390/genes10020163>, @2019 [Линк](#)
207. El-Esawi MA, AA Alayafi (2019) Overexpression of StDREB2 Transcription Factor Enhances Drought Stress Tolerance in Cotton (*Gossypium barbadense* L.). *Genes*, 10(2), 142; <https://doi.org/10.3390/genes10020142>, @2019 [Линк](#)

208. El-Esawi, M.A., Alayafi, A.A. (2019) Overexpression of Rice Rab7 Gene Improves Drought and Heat Tolerance and Increases Grain Yield in Rice (*Oryza sativa* L.). *Genes*, 10, 56., @2019 [Линк](#)
209. Farooq M, M Usman, F Nadeem, H R, A Wahid, SMA Basra, KHM Siddique (2019) Seed priming in field crops: potential benefits, adoption and challenges. *Crop and Pasture Science*, 70(9) 731-771., @2019 [Линк](#)
210. Farouk S, SM Al-Amri (2019) Exogenous melatonin-mediated modulation of arsenic tolerance with improved accretion of secondary metabolite production, activating antioxidant capacity and improved chloroplast ultrastructure in rosemary herb. *Ecotoxicology and Environmental Safety*, 180, 333-347., @2019 [Линк](#)
211. Fernandes FF, MP Esposito, MRGS Engela, P Cardoso-Gustavson, CM Furlan, Y Hoshika, E Carrari, G Magni, M Domingos, E Paoletti (2019) The passion fruit liana (*Passiflora edulis* Sims, Passifloraceae) is tolerant to ozone. *Science of The Total Environment*, 656, 1091-1101., @2019 [Линк](#)
212. Freitas WES, AB deOliveira, RO Mesquita, HH deCarvalho, JT Prisco, E Gomes-Filho (2019) Sulfur-induced salinity tolerance in lettuce is due to a better P and K uptake, lower Na/K ratio and an efficient antioxidative defense system. *Scientia Horticulturae*, 257, <https://doi.org/10.1016/j.scienta.2019.108764>, @2019 [Линк](#)
213. Gaion LP, JC Muniz Júnior, RF Barreto, V D'Amico-Damião, RM Prado, RF Carvalho (2019) Amplification of gibberellins response in tomato modulates calcium metabolism and blossom end rot occurrence. *Scientia Horticulturae*, 246, 498-505., @2019 [Линк](#)
214. Galazzi RM, CA Lopes Júnior, TB Lima, FC Gozzo, MAZ Arruda (2019) Evaluation of some effects on plant metabolism through proteins and enzymes in transgenic and non-transgenic soybeans after cultivation with silver nanoparticles. *Journal of Proteomics*, 191, 88-106., @2019 [Линк](#)
215. Golizadeh F, HH Kumleh (2019) Physiological Responses and Expression Changes of Fatty Acid Metabolism–Related Genes in Wheat (*Triticum aestivum*) Under Cold Stress. *Plant Molecular Biology Reporter*, 37(3), 224–236., @2019 [Линк](#)
216. Gonçalves CG, AC Silva Jr., LR Alves, MRR Pereira, PL Gratão, D Martins (2019) Biochemical examination of non-transgenic and transgenic soybean plants under drought stress conditions. *Biol Plant*, 63: 314-322., @2019 [Линк](#)
217. Grašič M, M Dobravc, A Golob, K Vogel-Mikuš, A Gaberščik (2019) Water shortage reduces silicon uptake in barley leaves. *Agricultural Water Management*, 217, 47-56., @2019 [Линк](#)
218. Grašič M, U Malovrh, A Golob, K Vogel-Mikuš, A Gaberščika (2019) Effects of water availability and UV radiation on silicon accumulation in the C4 crop proso millet. *Photochem. Photobiol. Sci.*, doi: 10.1039/C8PP00517F, @2019 [Линк](#)
219. Grifoni D, M Napoli, F Sabatini, S Orlandini, M Mancini, G Zipoli, AD Marta (2019) Productive and biochemical responses of durum wheat to UV filtration. *J Agron Crop Sci*, <https://doi.org/10.1111/jac.12334>, @2019 [Линк](#)
220. Gupta P, CS Seth (2019) Nitrate supplementation attenuates As(V) toxicity in *Solanum lycopersicum* L. cv Pusa Rohini: Insights into As(V) sub-cellular distribution, photosynthesis, nitrogen assimilation, and DNA damage. *Plant Physiology and Biochemistry*, 139, 44-55., @2019 [Линк](#)
221. He M-W, Y Wang, J-Q Wu, S Shu, J Sun, S-R Guo (2019) Isolation and characterization of S-Adenosylmethionine synthase gene from cucumber and responsive to abiotic stress. *Plant Physiology and Biochemistry*, 141, 431-445., @2019 [Линк](#)
222. He Q, X Wang, L He, L Yang, S Wang, Y Bi (2019) Alternative respiration pathway is involved in the response of highland barley to salt stress. *Plant Cell Rep*, 38(3), 295-309., @2019 [Линк](#)
223. Hesami M, MH Daneshvar, M Yoosefzadeh-Najafabadi (2019) An efficient in vitro shoot regeneration through direct organogenesis from seedling-derived petiole and leaf segments and acclimatization of *Ficus religiosa*. *Journal of Forestry Research*, 30(3), 807–815., @2019 [Линк](#)
224. Hidalgo-Castellanos J, A Marín-Peña, S Jiménez-Jiménez, JA Herrera-Cervera, M López-Gómez (2019) Polyamines oxidation is required in the symbiotic interaction *Medicago truncatula*–*Sinorhizobium*



- meliloti but does not participate in the regulation of polyamines level under salinity. *Plant Growth Regulation*, 88(3), 297–307., @2019 [Линк](#)
225. Hidalgo-Castellanos J, AS Duque, A Burgueño, JA Herrera-Cervera, P Fevereiro, M López-Gómez (2019) Overexpression of the arginine decarboxylase gene promotes the symbiotic interaction *Medicago truncatula*-*Sinorhizobium meliloti* and induces the accumulation of proline and spermine in nodules under salt stress conditions. *Journal of Plant Physiology*, 241, <https://doi.org/10.1016/j.jplph.2019.153034>, @2019 [Линк](#)
  226. Hu L, Y Li, Y Wu, J Lv, MM Dawuda, Z Tang, W Liao, A Calderón-Urrea, J Xie, J Yu (2019) Nitric Oxide Is Involved in the Regulation of the Ascorbate–Glutathione Cycle Induced by the Appropriate Ammonium: Nitrate to Mitigate Low Light Stress in *Brassica pekinensis*. *Plants*, 8(11), 489, <https://doi.org/10.3390/plants8110489>, @2019 [Линк](#)
  227. Hui R, R Jia, Y Zhao, G Song, Y Gao (2019) Comparative physiological responses of *Microcoleus vaginatus* and *Bryum argenteum* to enhanced UV-B radiation under field conditions. *Functional Plant Biology*, 46(3), 262-274., @2019 [Линк](#)
  228. Ijaz M, A Waheed, S Ul-Allah, A Nawaz, A Wasaya, A Sattar, A Sher (2019) Sewage waste water application improves the productivity of diverse wheat (*Triticum aestivum* L.) cultivars on a sandy loam soil. *Environmental Science and Pollution Research*, 26(17), 17045–17054., @2019 [Линк](#)
  229. Innes SN, LE Arve, B Zimmermann, L Nybakken, TI Melby, KA Solhaug, JE Olsen, S Torre (2019) Elevated air humidity increases UV mediated leaf and DNA damage in pea (*Pisum sativum*) due to reduced flavonoid content and antioxidant power. *Photochem. Photobiol. Sci.*, 18, 387-399., @2019 [Линк](#)
  230. Irem S, E Islam, FJM Maathuis, NK Niazi, T Li (2019) Assessment of potential dietary toxicity and arsenic accumulation in two contrasting rice genotypes: Effect of soil amendments. *Chemosphere*, 225, 104-114., @2019 [Линк](#)
  231. Isah T (2019) Changes in the biochemical parameters of albino, hyperhydric and normal green leaves of *Caladium bicolor* cv. “Bleeding hearts” in vitro long-term cultures. *J Photochem Photobiol B: Biology*, 191, 88-98., @2019 [Линк](#)
  232. Islam S, FB Omar, SA Sajib, NC Roy, A Reza, M Hasan, MR Talukder, AH Kabir (2019) Effects of LPDBD Plasma and Plasma Activated Water on Germination and Growth in Rapeseed (*Brassica napus*). *Gesunde Pflanzen*, 71(3), 175–185., @2019 [Линк](#)
  233. Jahan MS, S Shu, Y Wang, Z Chen, M He, M Tao, J Sun, S Guo (2019) Melatonin alleviates heat-induced damage of tomato seedlings by balancing redox homeostasis and modulating polyamine and nitric oxide biosynthesis. *BMC Plant Biol* 19, 414 (2019) doi:10.1186/s12870-019-1992-7, @2019 [Линк](#)
  234. Kabir AH, M Rahman, U Das, U Sarkar, NC Roy, A Reza, MR Talukder, A Uddin (2019) Reduction of cadmium toxicity in wheat through plasma technology. *PlosONE*, <https://doi.org/10.1371/journal.pone.0214509>, @2019 [Линк](#)
  235. Kataria S, Jain M, Kanungo M, Sharma S (2019) Wheat Responses and Tolerance to UV-B Radiation: An Overview. In: Hasanuzzaman M., Nahar K., Hossain M. (eds) *Wheat Production in Changing Environments*. Springer, Singapore. [https://doi.org/10.1007/978-981-13-6883-7\\_8](https://doi.org/10.1007/978-981-13-6883-7_8), @2019 [Линк](#)
  236. Keshavarzi M, Shekafandeh A (2019) The responses of enzymatic and nonenzymatic antioxidant systems of scion on different rootstocks under water stress deficit. *Advances in Horticultural Science*, 33(2), 161-170., @2019 [Линк](#)
  237. Khator K, GS Shekhawat (2019) Nitric oxide improved salt stress tolerance by osmolyte accumulation and activation of antioxidant defense system in seedling of *B. juncea* (L.) Czern. *Vegetos*, 32(4), 583–592., @2019 [Линк](#)
  238. Kidwai M, YV Dhar, N Gautam, M Tiwari, IZ Ahmad, MH Asif, D Chakrabarty (2019) *Oryza sativa* class III peroxidase (OsPRX38) overexpression in *Arabidopsis thaliana* reduces arsenic accumulation due to apoplastic lignification. *Journal of Hazardous Materials*, 362, 383-393., @2019 [Линк](#)

239. Kumari A, R Kaur (2019) Modulation of biochemical and physiological parameters in *Hordeum vulgare* L. seedlings under the influence of benzyl-butyl phthalate. *PeerJ* 7: e6742, <https://doi.org/10.7717/peerj.6742>, @2019 [Линк](#)
240. Lee H-J, J-I Choi (2019) Enhancing temperature tolerance of *Pyropia tenera* (Bangiales) by inducing mutation. *Phycologia*, <https://doi.org/10.1080/00318884.2019.1623547>, @2019 [Линк](#)
241. Lopes-Oliveira PJ, DG Gomes, MT Pelegrino, E Bianchini, JA Pimenta, R Stolf-Moreira, AB Seabra, HC Oliveira (2019) Effects of nitric oxide-releasing nanoparticles on neotropical tree seedlings submitted to acclimation under full sun in the nursery. *Scientific Reports*, 9, Article number: 17371., @2019 [Линк](#)
242. Mahawar L, GS Shekhawat (2019) EsHO 1 mediated mitigation of NaCl induced oxidative stress and correlation between ROS, antioxidants and HO 1 in seedlings of *Eruca sativa*: underutilized oil yielding crop of arid region. *Physiology and Molecular Biology of Plants*, 25(4), 895–904., @2019 [Линк](#)
243. Mátai A, D Nagy, É Hideg (2019) UV-B strengthens antioxidant responses to drought in *Nicotiana benthamiana* leaves not only as supplementary irradiation but also as pre-treatment. *Plant Physiology and Biochemistry*, 134, 9-19., @2019 [Линк](#)
244. Mesquita GL, FAO Tanaka, FCB Zambrosi, R Chapola, D Cursi, G Habermann, NS Massola Jr, VP Ferreira, SA Gaziola, RA Azevedo (2019) Foliar application of manganese increases sugarcane resistance to orange rust. *Plant Pathology*, 68(7), 1296-1307., @2019 [Линк](#)
245. Mirajkar S, SG Dalvi, SD Ramteke, P Suprasanna (2019) Foliar application of gamma radiation processed chitosan triggered distinctive biological responses in sugarcane under water deficit stress conditions. *International Journal of Biological Macromolecules*, 139, 1212-1223., @2019 [Линк](#)
246. Mirshekari M, A Einali, J Valizadeh (2019) Metabolic changes and activity pattern of antioxidant enzymes induced by salicylic acid treatment in green microalga *Dunaliella salina* under nitrogen deficiency. *Journal of Applied Phycology*, 31(3), 1709–1719., @2019 [Линк](#)
247. Mohammadi M, SAM Modarres-Sanavy, H Pirdashti, B Zand, Z Tahmasebi-Sarvestani (2019) Arbuscular mycorrhizae alleviate water deficit stress and improve antioxidant response, more than nitrogen fixing bacteria or chemical fertilizer in the evening primrose. *Rhizosphere*, 9, 76-89., @2019 [Линк](#)
248. Mohammadi S, H Ebrahimzadeh, V Niknam, Z Zahed (2019) Age-dependent responses in cellular mechanisms and essential oil production in sweet *Ferula assafoetida* under prolonged drought stress. *J Plant Interact*, 14(1), 324-333., @2019 [Линк](#)
249. Moussouraki M-A, Tani E, Velliou A, Goufa M, Psychogiou M, Papadakis IE, Abraham EM (2019) Growth, Physiological and Biochemical Responses of two Greek Cotton Cultivars to Salt Stress and their Impact as Selection Indices for Salt Tolerance. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 47(3), 706-715., @2019 [Линк](#)
250. Mukta RH, MR Khatun, AKMN Huda (2019) Calcium induces phytochelatin accumulation to cope with chromium toxicity in rice (*Oryza sativa* L.). *J Plant Interact*, 14(1), 295-302., @2019 [Линк](#)
251. Munir A, MT Shehzad, AA Qadir, G Murtaza, HI Khalid (2019) Use of Potassium Fertilization to Ameliorate the Adverse Effects of Saline-sodic Stress Condition (ECw: SARw Levels) in Rice (*Oryza Sativa* L.). *Comm Soil Sci & Plant Anal*, <https://doi.org/10.1080/00103624.2019.1648657>, @2019 [Линк](#)
252. Muousavi S-M, L Shabani (2019) Rosmarinic acid accumulation in *Melissa officinalis* shoot cultures is mediated by ABA. *Biol Plant* 63: 418-424., @2019 [Линк](#)
253. Naaz A, SA Hussain, M Anis, AA Alatar (2019) Meta-topolin improved micropropagation in *Syzygium cumini* and acclimatization to ex vitro conditions. *Biol Plant*, 63, 174-182., @2019 [Линк](#)
254. Nadeem M, W Ahmed, A Zahir, C Hano, BH Abbasi (2019) Salicylic acid-enhanced biosynthesis of pharmacologically important lignans and neo lignans in cell suspension culture of *Linum ussitatissimum* L. *Engineering in Life Sciences*, 19(3), 168-174., @2019 [Линк](#)
255. Naguib DM (2019) Metabolic profiling during germination of hydro primed cotton seeds. *Biocatalysis and Agricultural Biotechnology*, 17, 422-426., @2019 [Линк](#)

256. Naguib DM, H Abdalla (2019) Metabolic Status during Germination of Nano Silica Primed Zea mays Seeds under Salinity Stress. *Journal of Crop Science and Biotechnology*, 22(5), 415–423., @2019 [Линк](#)
257. Nasrabadi M, A Ramezani, S Eshghi, AA Kamgar-Haghighi, MR Vazifeshenas, D Valerod (2019) Biochemical changes and winter hardiness in pomegranate (*Punica granatum L.*) trees grown under deficit irrigation. *Scientia Horticulturae*, 251, 39-47., @2019 [Линк](#)
258. Nath M, D Bhatt, A Jain, SC Saxena, SK Saifi, S Yadav, M Negi, R Prasad, N Tuteja (2019) Salt stress triggers augmented levels of Na<sup>+</sup>, Ca<sup>2+</sup> and ROS and alter stress-responsive gene expression in roots of CBL9 and CIPK23 knockout mutants of *Arabidopsis thaliana*. *Environmental and Experimental Botany*, 161, 265-276., @2019 [Линк](#)
259. Nemat Alla M, Badran E, Mohammed F (2019) Exogenous trehalose alleviates the adverse effects of salinity stress in wheat. *Turk J Bot*, 43(1), 48-57., @2019 [Линк](#)
260. Panthri M, M Gupta (2019) Facets of iron in arsenic exposed *Oryza sativa* varieties: A manifestation of plant's adjustment at morpho-biochemical and enzymatic levels. *Environmental Pollution*, 255(2), <https://doi.org/10.1016/j.envpol.2019.113289>, @2019 [Линк](#)
261. Parveen A, W Liu, S Hussain, J Asghar, S Perveen, Y Xiong (2019) Silicon Priming Regulates Morpho-Physiological Growth and Oxidative Metabolism in Maize under Drought Stress. *Plants*, 8(10), 431; <https://doi.org/10.3390/plants8100431>, @2019 [Линк](#)
262. Pereira IS, Fagan EB, Cabral EM, Fontana DC, Umburanas RC, Soares LH (2019) ¿Cómo reacciona la actividad fisiológica y el crecimiento de las plantas de tomate al uso de un compuesto suelo-mineral?. *Revista Colombiana De Ciencias Hortícolas*, 13(2), 248-258., @2019 [Линк](#)
263. Pereira S, K Figueiredo-Lima, AFM Oliveira, MG Santos (2019) Changes in foliar epicuticular wax and photosynthesis metabolism in evergreen woody species under different soil water availability. *Photosynthetica*, 57(1):192-201. DOI: 10.32615/ps.2019.013, @2019 [Линк](#)
264. Pinto M, C Soares, AS Pinto, F Fidalgo (2019) Phytotoxic effects of bulk and nano-sized Ni on *Lycium barbarum L.* grown in vitro – Oxidative damage and antioxidant response. *Chemosphere*, 218, 507-516., @2019 [Линк](#)
265. Praveen A, A Pandey, M Gupta (2019) Nitric oxide alters nitrogen metabolism and PIN gene expressions by playing protective role in arsenic challenged *Brassica juncea L.* *Ecotoxicology and Environmental Safety*, 176, 95-107., @2019 [Линк](#)
266. Prieto-Ruiz I, E Garzo, A Moreno, B Dáder, P Medina, E Viñuela, A Fereres (2019) Supplementary UV radiation on eggplants indirectly deters *Bemisia tabaci* settlement without altering the predatory orientation of their biological control agents *Nesidiocoris tenuis* and *Sphaerophoria rueppellii*. *Journal of Pest Science*, 92(3), 1057–1070., @2019 [Линк](#)
267. Qadir SA (2019) Abscisic acid accumulation and physiological indices in responses to drought stress in wheat genotypes. *Iraqi J Agric Sci*, 50(2), 705-712., @2019 [Линк](#)
268. Qi C, X Lin, S Li, L Liu, Z Wang, Y Li, R Bai, Q Xie, N Zhang, S Ren, B Zhao, X Li, S Fan, Y-D Guo (2019) SoHSC70 positively regulates thermotolerance by alleviating cell membrane damage, reducing ROS accumulation, and improving activities of antioxidant enzymes. *Plant Science*, 283, 385-395., @2019 [Линк](#)
269. Rabêlo VM, PC Magalhães, LA Bressanin, DT Carvalho, CO dos Reis, D Karam, AC Doriguetto, MH dos Santos, PR dos Santos, S Filho, TC de Souza (2019) The foliar application of a mixture of semisynthetic chitosan derivatives induces tolerance to water deficit in maize, improving the antioxidant system and increasing photosynthesis and grain yield. *Sci Rep* 9, 8164, doi:10.1038/s41598-019-44649-7, @2019 [Линк](#)
270. Rathi D, A Pareek, T Zhang, Q Pang, S Chen, S Chakraborty, N Chakraborty (2019) Metabolite signatures of grasspea suspension-cultured cells illustrate the complexity of dehydration response. *Planta*, 250(3), 857–871., @2019 [Линк](#)

271. Riasat M, S Kiani, A Saed-Mouchehsi, M Pessaraki (2019) Oxidant related biochemical traits are significant indices in triticale grain yield under drought stress condition. *Journal of Plant Nutrition*, 42(2), 111-126., @2019 [Линк](#)
272. Riaz M, IU Salam, S Zaidi (2019) Individual and combined effect of uv-b radiation and heavy metals (lead and cadmium) on *Cucumis sativus* L. (cucumber). *Int J Biol Biotech*, 16 (1): 121-127., @2019 [Линк](#)
273. Riboldi LB, SA Gaziola, RA Azevedo, ST de Freitas, PRC Castro (2019) 24-Epibrassinolide Mechanisms Regulating Blossom-End Rot Development in Tomato Fruit. *Journal of Plant Growth Regulation*, 38(3), 812–823., @2019 [Линк](#)
274. Rizzardi MA, C Piasecki, J Schons, A Caverzan, C Langaro (2019) Interference of Volunteer Corn from Different Origins and Emergence Time on Soybean Yield and Stress Metabolism. *Planta daninha*, 37, <http://dx.doi.org/10.1590/s0100-83582019370100140>, @2019 [Линк](#)
275. Rostami F, F Nasibi, KM Kalantari (2019) Alleviation of UV-B radiation damages by sodium hydrosulfide (H<sub>2</sub>S donor) pre-treatment in Borage seedlings. *J Plant Interact*, 14(1), 519-524., @2019 [Линк](#)
276. Saed-Moucheshi A, Razi H, Dadkhodaie A, Ghodsi M, Dastfal M (2019) Association of biochemical traits with grain yield in triticale genotypes under normal irrigation and drought stress conditions. *Austr J Crop Sci*, 13(2), 272-281., @2019 [Линк](#)
277. Sahay S, E Khan, M Gupta (2019) Nitric oxide and abscisic acid protects against PEG-induced drought stress differentially in Brassica genotypes by combining the role of stress modulators, markers and antioxidants. *Nitric Oxide*, 89, 81-92., @2019 [Линк](#)
278. Saidimoradi D, N Ghaderi, T Javadi (2019) Salinity stress mitigation by humic acid application in strawberry (*Fragaria x ananassa* Duch.). *Scientia Horticulturae*, 256, 108594., @2019 [Линк](#)
279. Salehi M, G Karimzadeh, MR Naghavi (2019) Synergistic effect of coronatine and sorbitol on artemisinin production in cell suspension culture of *Artemisia annua* L. cv. Anamed. *Plant Cell, Tissue and Organ Culture*, 137(3), 587–597., @2019 [Линк](#)
280. Salemi F, MN Esfahani, L-SP Tran (2019) Mechanistic insights into enhanced tolerance of early growth of alfalfa (*Medicago sativa* L.) under low water potential by seed-priming with ascorbic acid or polyethylene glycol solution. *Industrial Crops and Products*, 137, 436-445., @2019 [Линк](#)
281. Samsami S, F Bazrafshan, M Zare, B Amiri, A Bahrani (2019) Effect of different rates of urea fertilization on yield and some biochemical and physiological properties of four wheat cultivars under two irrigation regimes. *Acta Agrobotanica*, 72(4), DOI: <https://doi.org/10.5586/aa.1788>, @2019 [Линк](#)
282. Sanjari S, B Keramat, N Nadernejad, H Mozafari (2019) Ameliorative effects of 24-epibrassinolide and thiamine on excess cadmium-induced oxidative stress in Canola (*Brassica napus* L.) plants. *J Plant Interactions*, 14(1), 359-368., @2019 [Линк](#)
283. Sarmadi M, N Karimi, J Palazón, A Ghassempour, MH Mirjalili (2019) Improved effects of polyethylene glycol on the growth, antioxidative enzymes activity and taxanes production in a *Taxus baccata* L. callus culture. *Plant Cell, Tissue and Organ Culture*, 137(2), 319–328., @2019 [Линк](#)
284. Shah M, MA Ullah, S D, M Younas, D Tungmunthum, N Giglioli-Guivarc'h, C Hano, BH Abbasi (2019) Interactive Effects of Light and Melatonin on Biosynthesis of Silymarin and Anti-Inflammatory Potential in Callus Cultures of *Silybum marianum* (L.) Gaertn. *Molecules* 2019, 24(7), 1207; <https://doi.org/10.3390/molecules24071207>, @2019 [Линк](#)
285. Sharma AD, D Singh, JS Nanda (2019) Boiling Soluble Proteins Involved in Drought Stress Adaptation of Embryos and Endosperm of Wheat Cultivars. *Russian Agricultural Sciences*, 45(3), 236–242., @2019 [Линк](#)
286. Sharma S, S Kataria, J Joshi, KN Guruprasad (2019) Antioxidant defense response of fenugreek to solar UV. *International Journal of Vegetable Science*, 25(1), <https://doi.org/10.1080/19315260.2018.1466844>, @2019 [Линк](#)
287. Sharma, A., Shahzad, B., Kumar, V., Kohli, S.K., Sidhu, G.P.S., Bali, A.S., Handa, N., Kapoor, D., Bhardwaj, R., Zheng, B. (2019) Phytohormones Regulate Accumulation of Osmolytes Under Abiotic Stress. *Biomolecules* 2019, 9, 285., @2019 [Линк](#)

288. Singh RK, S Acharya, OP Chaurasia (2019) Effects of mulching and zinc on physiological responses and yield of sweet pepper (*Capsicum annuum*) under high altitude cold desert condition. *Indian Journal of Agricultural Sciences*, 89(2), 300–306., @2019 [Линк](#)
289. Smaili A, LA Rifai, N Mazoir, T Koussa, L Faize, N Alburquerque, L Burgos, K Makroum, B Malika, A Benharref, M Faize (2019) Semisynthetic Triterpenes Derived from *Euphorbia officinarum* as Plant Growth Promoters and Inducers of Disease Resistance. *Journal of Plant Growth Regulation*, 38(1), 262–272., @2019 [Линк](#)
290. Smaili A, S Jebbari, LA Rifai, L Faize, T Koussa, HA Sir, K Makroum, M Belfaiza, AE Kihel, M Ahbala, JS Venisse, M Faize (2019) Synthesis and in planta antibacterial activity of head-to-head bis-benzimidazole and bis-benzoxazole derivatives. *Phytoparasitica* (2019). <https://doi.org/10.1007/s12600-019-00764-9>, @2019 [Линк](#)
291. Srivastava D, G Verma, AS Chauhan, V Pande, D Chakrabarty (2019) Rice (*Oryza sativa* L.) tau class glutathione S-transferase (OsGSTU30) overexpression in *Arabidopsis thaliana* modulates a regulatory network leading to heavy metal and drought stress tolerance. *Metallomics*, 11, 375–389., @2019 [Линк](#)
292. Stein RJ, GL Duarte, L Scheunemann, MG Spohr, AT de Araújo Júnior, FK Ricachenevsky, LMG Rosa, NIT Zanchin, RP dos Santos, JP Fett (2019) Genotype Variation in Rice (*Oryza sativa* L.) Tolerance to Fe Toxicity Might Be Linked to Root Cell Wall Lignification. *Front Plant Sci.* 10: 746., @2019 [Линк](#)
293. Sun M, F Jiang, R Zhou, J Wen, S Cui, W Wang, ZW (2019) Respiratory burst oxidase homologue-dependent H<sub>2</sub>O<sub>2</sub> is essential during heat stress memory in heat sensitive tomato. *Scientia Horticulturae*, 258, 108777., @2019 [Линк](#)
294. Teixeira WF, LH Soares, EB Fagan, SC Mello, K Reichardt, D Dourado-Neto (2019) Amino Acids as Stress Reducers in Soybean Plant Growth Under Different Water-Deficit Conditions. *J Plant Growth Regul*, <https://doi.org/10.1007/s00344-019-10032-z>, @2019 [Линк](#)
295. Trivedi G, P Patel, M Saraf (2019) Synergistic effect of endophytic selenobacteria on biofortification and growth of *Glycine max* under drought stress. *South African Journal of Botany*, <https://doi.org/10.1016/j.sajb.2019.10.001>, @2019 [Линк](#)
296. Ullah MA, D Tungmunthum, L Garros, S Drouet, C Hano, BH Abbasi (2019) Effect of Ultraviolet-C Radiation and Melatonin Stress on Biosynthesis of Antioxidant and Antidiabetic Metabolites Produced in In Vitro Callus Cultures of *Lepidium sativum* L. *Int. J. Mol. Sci.*, 20(7), 1787; <https://doi.org/10.3390/ijms20071787>, @2019 [Линк](#)
297. Ullah, D Tungmunthum, L Garros, C Hano, BH Abbasi (2019) Monochromatic lights-induced trends in antioxidant and antidiabetic polyphenol accumulation in in vitro callus cultures of *Lepidium sativum* L. *Journal of Photochemistry and Photobiology B: Biology*, 196, <https://doi.org/10.1016/j.jphotobiol.2019.05.002>, @2019 [Линк](#)
298. Vanda GF, L Shabani, R Razavizadeh (2019) Chitosan enhances rosmarinic acid production in shoot cultures of *Melissa officinalis* L. through the induction of methyl jasmonate. *Bot Stud* 60, 26, doi:10.1186/s40529-019-0274-x, @2019 [Линк](#)
299. Velichko I, I Gordeev, A Shelemin, D Nikitin, J Brinar, P Pleskunov, A Choukourov, K Pazderů, J Pulkrábek (2019) Plasma Jet and Dielectric Barrier Discharge Treatment of Wheat Seeds. *Plasma Chemistry and Plasma Processing*, 39(4), 913–928., @2019 [Линк](#)
300. Vitali F, A Raio, F Sebastiani, P Cherubini, D Cavalieri, C Cocozza (2019) Environmental pollution effects on plant microbiota: the case study of poplar bacterial-fungal response to silver nanoparticles. *Applied Microbiology and Biotechnology*, 103(19), 8215–8227., @2019 [Линк](#)
301. Wang J, L Zhang, X Wang, L Liu, X Lin, W Wang, C Qi, Y Cao, S Li, S Ren, Y Zhang, W Zhang, Y-D Guo (2019) PvNAC1 increases biomass and enhances salt tolerance by decreasing Na<sup>+</sup> accumulation and promoting ROS scavenging in switchgrass (*Panicum virgatum* L.). *Plant Science*, 280, 66–76., @2019 [Линк](#)
302. Xiu WY, Y Zhu, B Chen, Y Hu, MM Dawuda (2019) Effects of paclobutrazol on the physiological characteristics of *Malus halliana* Koehne Seedlings under drought stress via principal component

- analysis and membership function analysis. *Arid Land Research and Management*, 33(1), 97-113., @2019 [Линк](#)
303. Yadav DK, BRani Barik, G Pradhan, RK Singh, SK Prasad (2019) Responses of crops plant to drought and its management for crop water availability: A review. *Journal of Pharmacognosy and Phytochemistry*, 8(4): 167-172., @2019 [Линк](#)
  304. Yadav DS, R Rai, AK Mishra, N Chaudhary, A Mukherjee, SB Agrawal, M Agrawal (2019) ROS production and its detoxification in early and late sown cultivars of wheat under future O<sub>3</sub> concentration. *Science of The Total Environment*, 659, 200-210., @2019 [Линк](#)
  305. Yamani ME, EH Sakar, A Boussakouran, Y Rharrabti (2019) Physiological and biochemical responses of young olive trees (*Olea europaea* L.) to water stress during flowering. *Archives of Biological Sciences*, 71(1), <https://doi.org/10.2298/ABS181001054E>, @2019 [Линк](#)
  306. Yang Q, Y-J Liu, Q-Y Zeng (2019) Overexpression of three orthologous glutathione S-transferases from *Populus* increased salt and drought resistance in *Arabidopsis*. *Biochemical Systematics and Ecology*, 83, 57-61., @2019 [Линк](#)
  307. Zahedi SM, M Abdelrahman, MS Hosseini, NF Hoveizeh, L-SP Tran (2019) Alleviation of the effect of salinity on growth and yield of strawberry by foliar spray of selenium-nanoparticles. *Environmental Pollution*, 253, 246-258., @2019 [Линк](#)
  308. Zanganeh R, R Jamei, F Rahmani (2019) Modulation of growth and oxidative stress by seed priming with salicylic acid in *Zea mays* L. under lead stress. *J Plant Interact*, 14, <https://doi.org/10.1080/17429145.2019.1629032>, @2019 [Линк](#)
  309. Zhang C, M Chen, G Liu, G Huang, Y Wang, S Yang, X Xu (2019) Enhanced UV-B radiation aggravates negative effects more in females than in males of *Morus alba* saplings under drought stress. *Environmental and Experimental Botany*, doi: <https://doi.org/10.1016/j.envexpbot.2019.103903>, @2019 [Линк](#)
  310. Zhu Y, X Luo, M Wei, A Khan, F Munsif, T Huang, X Pan, Z Shan (2019) Antioxidant Enzymatic Activity and Its Related Genes Expression in Cassava Leaves at Different Growth Stages Play Key Roles in Sustaining Yield and Drought Tolerance Under Moisture Stress. *J Plant Growth Regul*, <https://doi.org/10.1007/s00344-019-10003-4>, @2019 [Линк](#)
  311. Abbasi BH, MA Ullah, M Nadeem, D Tungmunthum, C Hano, (2020) Exogenous application of salicylic acid and gibberellic acid on biomass accumulation, antioxidant and anti-inflammatory secondary metabolites production in multiple shoot culture of *Ajuga integrifolia* Buch. Ham. ex D. Don. *Industrial Crops and Products*, 145, 112098., @2020 [Линк](#)
  312. Agarwal P, M Mitra, S Banerjee, S Roy (2020) MYB4 transcription factor, a member of R2R3-subfamily of MYB domain protein, regulates cadmium tolerance via enhanced protection against oxidative damage and increases expression of PCS1 and MT1C in *Arabidopsis*. *Plant Science*, 297, 110501., @2020 [Линк](#)
  313. Agnihotri A, CS Seth (2020) Does jasmonic acid regulate photosynthesis, clastogenecity, and phytochelatins in *Brassica juncea* L. in response to Pb-subcellular distribution? *Chemosphere*, 243, 125361., @2020 [Линк](#)
  314. Akbarnejad-Samani, Z.; Shamili, M.; Samari, F. (2020) The toxicity potential of Ag nanoparticles synthesized from *Cordia myxa* L. *Advances in Horticultural Science*, 34(1), 93-104., @2020 [Линк](#)
  315. Akther MS, U Das, S Tahura, SA Prity, M Islam, AH Kabir (2020) Regulation of Zn uptake and redox status confers Zn deficiency tolerance in tomato. *Scientia Horticulturae*, 273, 109624., @2020 [Линк](#)
  316. Alla MNM, EG Badran, FA Mohammed, NM Hassan, MA Abdelhamid (2020) Overexpression of Na<sup>+</sup>-manipulating genes in wheat by selenium is associated with antioxidant enforcement for enhancement of salinity tolerance. *Rendiconti Lincei. Scienze Fisiche e Naturali*, 31, 177–187., @2020 [Линк](#)
  317. Alves RC, MCM Nicolau, MV Checchio, GS Sousa Junior, FA de Oliveira, RM Prado, PL Gratão (2020) Salt stress alleviation by seed priming with silicon in lettuce seedlings: an approach based on enhancing antioxidant responses. *Bragantia, Campinas*, 79(1), 19-29., @2020 [Линк](#)

318. Alzandi AA, DM Naguib (2020) Effect of hydropriming on *Trigonella foenum callus* growth, biochemical traits and phytochemical components under PEG treatment. *Plant Cell, Tissue and Organ Culture (PCTOC)*, 141, 179–190., @2020 [Линк](#)
319. Ampofo J, Ngadi M, Ramaswamy HS (2020) The Impact of Temperature Treatments on Elicitation of the Phenylpropanoid Pathway, Phenolic Accumulations and Antioxidative Capacities of Common Bean (*Phaseolus vulgaris*) Sprouts. *Food Bioprocess Technol*, 13, 1544–1555., @2020 [Линк](#)
320. Ampofo JO, M Ngadi (2020) Ultrasonic assisted phenolic elicitation and antioxidant potential of common bean (*Phaseolus vulgaris*) sprouts. *Ultrasonics Sonochemistry*, 64, 104974., @2020 [Линк](#)
321. Asadi-Kavan Z, RA Khavari-Nejad, A Iranbakhsh, F Najafi (2020) Cooperative effects of iron oxide nanoparticle ( $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>) and citrate on germination and oxidative system of evening primrose (*Oenothera biennis* L.). *Journal of Plant Interactions*, 15(1), 166-179. DOI: 10.1080/17429145.2020.1774671, @2020 [Линк](#)
322. Banin Sogvar O, Razavi F, Rabiei V, Gohari G (2020) Postharvest application of L-cysteine to prevent enzymatic browning of “Stanley” plum fruit during cold storage. *Journal of Food Processing and Preservation*, 44:e14788., @2020 [Линк](#)
323. Barand A, F Nasibi, KM Kalantari, M Moradi (2020) The effects of foliar application of melatonin on some physiological and biochemical characteristics and expression of fatty acid desaturase gene in pistachio seedlings (*Pistacia vera* L.) under freezing stress, *Journal of Plant Interactions*, 15:1, 257-265. DOI: 10.1080/17429145.2020.1781271, @2020 [Линк](#)
324. Bashyal BM, Zaidi NW, Singh US, Aggarwal R (2020) Effect of fungal biocontrol agents on enhancement of drought stress tolerance in rice (*Oryza sativa* L.). *Indian Journal of Biochemistry and Biophysics*, 57(1), 101-108., @2020
325. Bhuyan MB, Parvin K, Mohsin SM, Mahmud JA, Hasanuzzaman M, Fujita M (2020) Modulation of Cadmium Tolerance in Rice: Insight into Vanillic Acid-Induced Upregulation of Antioxidant Defense and Glyoxalase Systems. *Plants*, 9(2), 188., @2020 [Линк](#)
326. Boaretto RM, FWR Hippler, GA Ferreira, RA Azevedo, JA Quaggio, D Mattos Jr (2020) The possible role of extra magnesium and nitrogen supply to alleviate stress caused by high irradiation and temperature in lemon trees. *Plant Soil*, 457, 57–70., @2020 [Линк](#)
327. Borgo L, FH Rabêlo, G Carvalho, T Ramires, AJ Righetto, FÂ Piotto, LF Boaretto, R Azevedo (2020) Antioxidant performance and aluminum accumulation in two genotypes of *Solanum lycopersicum* in response to low pH and aluminum availability and under their combined stress. *Scientia Horticulturae*, 259, 108813., @2020 [Линк](#)
328. Borjas-Ventura R, AS Ferraudo, CA Martínez, PL Gratão (2020) Global warming: Antioxidant responses to deal with drought and elevated temperature in *Stylosanthes capitata*, a forage legume. *J Agron Crop Sci*, 206(1), 13-27., @2020 [Линк](#)
329. Che Y, N Zhang, X Zhu, S Li, S Wang, H Si (2020) Enhanced tolerance of the transgenic potato plants overexpressing Cu/Zn superoxide dismutase to low temperature, *Scientia Horticulturae*. 261, 108949., @2020 [Линк](#)
330. Chowardhara B, P Borgohain, B Saha, JP Awasthi, SK Panda (2020) Differential oxidative stress responses in *Brassica juncea* (L.) Czern and Coss cultivars induced by cadmium at germination and early seedling stage. *Acta Physiol Plant*, 42, 105., @2020 [Линк](#)
331. Chu, B Liu, J Liu, J He, L Lv, H Wang, X Xie, Q Tao, Q Chen (2020) Phytoremediation of acetochlor residue by transgenic *Arabidopsis* expressing the acetochlor N-dealkylase from *Sphingomonas wittichii* DC-6. *Science of The Total Environment*, 728, 138687., @2020 [Линк](#)
332. Coccozza C, F Brillì, S Pignattelli, S Pollastri, C Brunetti, C Gonnelli, R Tognetti, M Centritto, F Loreto (2020) The excess of phosphorus in soil reduces physiological performances over time but enhances prompt recovery of salt-stressed *Arundo donax* plants. *Plant Physiology and Biochemistry*, 151, 556-565., @2020 [Линк](#)

333. da Rocha Nina Junior A, Maia JMF, Martins SCV, Gonçalves JFC (2020) Photochemical Efficiency and Oxidative Metabolism of Tree Species during Acclimation to High and Low Irradiance. *Plants*, 9(8), 1047., @2020 [Линк](#)
334. Danouche M, N El Ghachtouli, A El Baouchi, H El Arroussi (2020) Heavy metals phycoremediation using tolerant green microalgae: Enzymatic and non-enzymatic antioxidant systems for the management of oxidative stress. *Journal of Environmental Chemical Engineering*, 8(5), 104460., @2020 [Линк](#)
335. Das U, MM Rahman, ZR Roy, MM Rahman, AH Kabir (2020) Morpho-physiological retardations due to iron toxicity involve redox imbalance rather than photosynthetic damages in tomato. *Plant Physiology and Biochemistry*, 156, 55-63., @2020 [Линк](#)
336. de Brito Mateus MP, RFR Tavanti, FS Galindo, ACR Silva, GCC Gouveia, CFF Aparecido, NF Carr, YB Feitosa, EF Santos, J Lavres, AR Reis (2020) Coffea arabica seedlings genotypes are tolerant to high induced selenium stress: Evidence from physiological plant responses and antioxidative performance. *Ecotoxicology and Environmental Safety*, 203, 111016., @2020 [Линк](#)
337. Dixit S, VK Jangid, A Grover (2020) Evaluation of physiological and molecular effect of variable virulence of *Alternaria brassicae* isolates in Brassica juncea, Sinapis alba and Camelina sativa. *Plant Physiology and Biochemistry*, 155, 626-636., @2020 [Линк](#)
338. Doupis G, Chartzoulakis KS, Taskos D, Patakas A (2020) The effects of drought and supplemental UV-B radiation on physiological and biochemical traits of the grapevine cultivar "Soultanina". *OENO One*, 54(4), 687-698. 1, @2020 [Линк](#)
339. Ferreira RLC, RM Prado, JP de Souza Junior, PL Gratão, To Tezotto, FJR Cruz (2020) Oxidative Stress, Nutritional Disorders, and Gas Exchange in Lettuce Plants Subjected to Two Selenium Sources. *Journal of Soil Science and Plant Nutrition*, 20:1215–122., @2020 [Линк](#)
340. Forti JC, GH Loretti, YS Tadayozzi, AR de Andrade (2020) A phytotoxicity assessment of the efficiency 2, 4-D degradation by different oxidative processes. *Journal of Environmental Management*, 266, 110588., @2020 [Линк](#)
341. Furlan AL, E Bianucci, W Giordano, S Castro, DF Becker (2020) Proline metabolic dynamics and implications in drought tolerance of peanut plants. *Plant Physiology and Biochemistry*, 151, 566-578., @2020 [Линк](#)
342. Gaber A, Feng T, Wang X, Huang G, Guo Y, Zhang M, Li Z, Zhou Y, Duan L (2020) A novel ABA functional analogue B2 enhances salinity tolerance in wheat. *Applied Ecology and Environmental Research*, 18(5), 7139-7157., @2020 [Линк](#)
343. García A, Aguado E, Cebrián G, Iglesias J, Romero J, Martínez C, Garrido D, Reboloso MM, Valenzuela JL, Jamilena M (2020) Effect of Ethylene-Insensitive Mutation *etr2b* on Postharvest Chilling Injury in Zucchini Fruit. *Agriculture*, 10(11), 532., @2020 [Линк](#)
344. Ghasemi R, RS Sharifi, YK Arough (2020) Effects of iron and PGPR on antioxidant status and some physiological traits of triticale under different irrigation levels. *Bangladesh Journal of Botany*, 49(4), 891–901., @2020 [Линк](#)
345. Gholinezhad E (2020) Impact of drought stress and stress modifiers on water use efficiency, membrane lipidation indices, and water relationship indices of pot marigold (*Calendula officinalis* L.). *Braz. J. Bot*, 43, 747–759., @2020 [Линк](#)
346. Ghosh S, NU Kamble, M Majee (2020) A protein repairing enzyme, PROTEIN L- ISOASPARTYL METHYLTRANSFERASE is involved in salinity stress tolerance by increasing efficiency of ROS-scavenging enzymes. *Environmental and Experimental Botany*, 180, 104266., @2020 [Линк](#)
347. Gindri DM, Coelho CMM, Uarrota VG (2020) Physiological and biochemical effects of *Lantana camara* L. allelochemicals on the seed germination of *Avena sativa* L. *Pesquisa Agropecuária Tropical*, 50, e62546., @2020 [Линк](#)
348. Goffi V, A Magri, R Botondi, M Petriccione (2020) Response of antioxidant system to postharvest ozone treatment in 'Soreli' kiwifruit. *Journal of the Science of Food and Agriculture*, 100(3), 961-968., @2020 [Линк](#)



349. Gonçalves BG, LM Ribeiro, DS Dias, HC Mazzottini-dos-Santos, CPS Martins, PSN Lopes, MO Mercadante-Simões (2020) Embryo responses to extreme water events provide insights into the behavior of *Butia capitata* (Arecaceae) seed banks during hydration cycles. *Environmental and Experimental Botany*, 169, 103904., @2020 [Линк](#)
350. Gouveia GCC, FS Galindo, MGDB Lanza, ACR Silva, MPB Mateus, MS Silva, RFR Tavanti, TR Tavanti, J Lavres, AR Reis (2020) Selenium toxicity stress-induced phenotypical, biochemical and physiological responses in rice plants: Characterization of symptoms and plant metabolic adjustment. *Ecotoxicology and Environmental Safety*, 202, 110916., @2020 [Линк](#)
351. Gupta GS, Tiwari S (2020) Role of antioxidant pool in management of ozone stress through soil nitrogen amendments in two cultivars of a tropical legume. *Functional Plant Biology*, <https://doi.org/10.1071/FP20159>, @2020 [Линк](#)
352. Gupta P, CS Seth (2020) Interactive role of exogenous 24 Epibrassinolide and endogenous NO in *Brassica juncea* L. under salinity stress: Evidence for NR-dependent NO biosynthesis. *Nitric Oxide*, 97, 33-47., @2020 [Линк](#)
353. Haddidi I, Duc NH, Tonk S, Rápó E, Posta K (2020) Defense Enzymes in Mycorrhizal Tomato Plants Exposed to Combined Drought and Heat Stresses. *Agronomy*, 10(11), 1657., @2020 [Линк](#)
354. Hadian-Deljou M, M Esna-Ashari, A Mirzaie-asl (2020) Alleviation of salt stress and expression of stress-responsive gene through the symbiosis of arbuscular mycorrhizal fungi with sour orange seedlings. *Scientia Horticulturae*, 268, 109373., @2020 [Линк](#)
355. He Q, P Li, W Zhang, Y Bi (2020) Cytoplasmic glucose-6-phosphate dehydrogenase plays an important role in the silicon-enhanced alkaline tolerance in highland barley. *Functional Plant Biology*, <https://doi.org/10.1071/FP20084>, @2020 [Линк](#)
356. Hock M, Plos C, Sporbert M, Erfmeier A (2020) Combined Effects of UV-B and Drought on Native and Exotic Populations of *Verbascum thapsus* L. *Plants*, 9(2):269., @2020 [Линк](#)
357. Hosseini MS, Zahedi SM, Hoveizeh NF, Li L, Rafiee M, Farooq M (2020) Improving seed germination and seedling growth of guava under heat and osmotic stresses by chemical and hormonal seed treatments. *Bragantia*, 79(4), 387-399., @2020 [Линк](#)
358. Hosseini NS, Ghasimi Hagh Z, Khoshghalb H (2020) Morphological, antioxidant enzyme activity and secondary metabolites accumulation in response of polyethylene glycol-induced osmotic stress in embryo-derived plantlets and callus cultures of *Salvia leriifolia*. *Plant Cell Tiss Organ Cult* 140, 143–155., @2020 [Линк](#)
359. Hussain N, Yasmeen A, Afzal MA (2020) Exogenously applied growth promoters modulate the antioxidant enzyme system to improve the cotton productivity under water stress conditions. *Italian Journal of Agronomy*, 15(2), 165-171., @2020 [Линк](#)
360. Isah T, S Umar (2020) Influencing in vitro clonal propagation of *Chonemorpha fragrans* (moon) Alston by culture media strength, plant growth regulators, carbon source and photo periodic incubation. *J. For. Res.* 31, 27–43., @2020 [Линк](#)
361. Islam MZ, B-J Park, H-M Kang, Y-T Lee (2020) Influence of selenium biofortification on the bioactive compounds and antioxidant activity of wheat microgreen extract. *Food Chem*, 309, 125763., @2020 [Линк](#)
362. Jahani M, Khavari-Nejad RA, Mahmoodzadeh H, Saadatmand S (2020) Effects of cobalt oxide nanoparticles (Co3O4 NPs) on ion leakage, total phenol, antioxidant enzymes activities and cobalt accumulation in *Brassica napus* L. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 48(3), 1260-1275., @2020 [Линк](#)
363. Jaiswal D, A Pandey, A Mukherjee, M Agrawal, SB Agrawal (2020) Alterations in growth, antioxidative defense and medicinally important compounds of *Curcuma caesia* Roxb. under elevated ultraviolet-B radiation. *Environmental and Experimental Botany*, 177, 104152., @2020 [Линк](#)

364. Juneidi S, Gao Z, Yin H, Makunga NP, Chen W, Hu S, Li X, Hu X (2020) Breaking the Summer Dormancy of *Pinellia ternata* by Introducing a Heat Tolerance Receptor-Like Kinase ERECTA Gene. *Frontiers in Plant Science*, 11, 780., @2020 [Линк](#)
365. Kabir AH, T Debnath, U Das, SA Prity, A Haque, Md M Rahman, Md S Parvez (2020) Arbuscular mycorrhizal fungi alleviate Fe-deficiency symptoms in sunflower by increasing iron uptake and its availability along with antioxidant defense. *Plant Physiology and Biochemistry*, 150, 254-262., @2020 [Линк](#)
366. Karki KB, Mishra AK, Choi S-J, Baek K-H (2020) Effect of Ultraviolet C Irradiation on Isoflavone Concentrations in Different Cultivars of Soybean (*Glycine max*). *Plants*, 9, 1043., @2020 [Линк](#)
367. Karwa S, RN Bahuguna, AK Chaturvedi, S Maurya, SS Arya, V Chinnusamy, M Pal (2020) Phenotyping and characterization of heat stress tolerance at reproductive stage in rice (*Oryza sativa* L.). *Acta Physiol Plant*, 42, 29., @2020 [Линк](#)
368. Karwa S, SS Arya, S Maurya, M Pal (2020) Physiological characterization of reproductive stage heat stress tolerance in contrasting rice genotypes. *Plant Physiol. Rep.* 25, 157–162., @2020 [Линк](#)
369. Kato FH, Carvalho MEA, G SA, Piotto FA, Azevedo RA (2020) Lysine metabolism and amino acid profile in maize grains from plants subjected to cadmium exposure. *Scientia Agricola*, 77(1), e20180095., @2020 [Линк](#)
370. Khator K, GS Shekhawat (2020) Cd- and Cu-induced phytotoxicity on 2–3 leaf stage of *Cyamopsis tetragonoloba* and its regulation by nitrate reductase and ROS quenching enzyme. *Acta Physiol Plant* 42, 120., @2020 [Линк](#)
371. Khator K, L Mahawar L, GS Shekhawat (2020) NaCl induced oxidative stress in legume crops of Indian Thar Desert: an insight in the cytoprotective role of HO1, NO and antioxidants. *Physiol Mol Biol Plants* 26, 51–62., @2020 [Линк](#)
372. Khurshid R, MA Ullah, D Tungmunnithum, S Drouet, M Shah, A Zaeem, S Hameed, C Hano, BH Abbasi (2020) Lights triggered differential accumulation of antioxidant and antidiabetic secondary metabolites in callus culture of *Eclipta alba* L. *PLoS ONE* 15(6): e0233963., @2020 [Линк](#)
373. Kumar VVS, SK Yadav, RK Verma, S Shrivastava, O Ghimire, S Pushkar, MV Rao, TS Kumar, V Chinnusamy (2020) ABA receptor OsPYL6 confers drought tolerance to indica rice through dehydration avoidance and tolerance mechanisms. *Journal of Experimental Botany*, eera509. <https://doi.org/10.1093/jxb/eraa509>, @2020 [Линк](#)
374. Lapaz AM, LS de Camargos, CHP Yoshida, AC Firmino, PAM de Figueiredo, JV Aguilar, AB Nicolai, WS de Paiva, VH Cruz, RS Tomaz (2020) Response of soybean to soil waterlogging associated with iron excess in the reproductive stage. *Physiol Mol Biol Plants*, 26, 1635–1648., @2020 [Линк](#)
375. Lee JK, Woo SY, Kwak MJ, Park SH, Kim HD, Lim YJ, Park JH, Lee KA (2020) Effects of Elevated Temperature and Ozone in *Brassica juncea* L.: Growth, Physiology, and ROS Accumulation. *Forests*, 11(1), 68; <https://doi.org/10.3390/f11010068>, @2020 [Линк](#)
376. Li G, YX Ye, XQ Ren, MY Qi, HY Zhao, Q Zhou, XH Chen, J Wang, CY Yuan, FB Wang (2020) The rice Aux/IAA transcription factor gene OsIAA18 enhances salt and osmotic tolerance in *Arabidopsis*. *Biologia Plantarum*, 64, 454-464. DOI: 10.32615/bp.2019.069, @2020 [Линк](#)
377. Li H, Z Li, Z-J Shen, M-R Luo, Y-L Liu, M-Y Wei, W-H Wang, Y-Y Qin, C-H Gao, K-K Li, Q-S Ding, S Zhang, X-M Zhang, G-F Gao, X-Y Zhu, H-L Zheng (2020) Physiological and proteomic responses of mangrove plant *Avicennia marina* seedlings to simulated periodical inundation. *Plant Soil*, 450, 231–254., @2020 [Линк](#)
378. Liu Y, J Liu, H-Z Wang, K-X Wu, X-R Guo, L-Q Mu, Z-H Tang (2020) Comparison of the global metabolic responses to UV-B radiation between two medicinal *Astragalus* species: An integrated metabolomics strategy. *Environmental and Experimental Botany*, 176, 104094., @2020 [Линк](#)
379. Ludueña LM, E Bianucci, MS Anzuay, JG Angelini, A Fabra, T Taurian (2020) First insights into the role of PQQ cofactor in the modulation of bacterial redox state and in the early interaction with peanut (*Arachis hypogaea* L.). *Applied Soil Ecology*, 152, 103560., @2020 [Линк](#)

380. Majumdar S, NB Prakash (2020) An Overview on the Potential of Silicon in Promoting Defence Against Biotic and Abiotic Stresses in Sugarcane. *J Soil Sci Plant Nutr*, 20, 1969–1998., @2020 [Линк](#)
381. Manal T. El Sayed, Ashraf S.A. El-Sayed (2020) Bioremediation and tolerance of zinc ions using *Fusarium solani*. *Heliyon*, 6(9), e05048., @2020 [Линк](#)
382. Manal T. El Sayed, Ashraf S.A. El-Sayed (2020) Tolerance and mycoremediation of silver ions by *Fusarium solani*. *Heliyon*, 6(5), e03866., @2020 [Линк](#)
383. Mantoan LPM, CV Corrêa, CA Rainho, LFR de Almeida (2020) Rapid dehydration induces long-term water deficit memory in sorghum seedlings: advantages and consequences. *Environmental and Experimental Botany*, 180, 104252., @2020 [Линк](#)
384. Mantovani C, KFL Pivetta, RM Prado, JP de Souza, CS Nascimento, CS Nascimento, PL Gratão (2020) Silicon toxicity induced by different concentrations and sources added to in vitro culture of epiphytic orchids. *Scientia Horticulturae*, 265, 109272. <https://doi.org/10.1016/j.scienta.2020.109272>, @2020 [Линк](#)
385. Masoudian Z, Salehi-Lisar SY, Norastehnia A (2020) Phytoremediation potential of *Azolla filiculoides* for sodium dodecyl benzene sulfonate (SDBS) surfactant considering some physiological responses, effects of operational parameters and biodegradation of surfactant. *Environ Sci Pollut Res*, 27, 20358–20369., @2020 [Линк](#)
386. Mehrazadeh G, Forghani A, Razavizadeh R (2020) The Impact of UV-B Radiation on Some Metabolites and Pigments of *Carum Copticum* Under In vitro Culture. *Iranian Journal of Plant Physiology*, 10(4), 3325-3332., @2020 [Линк](#)
387. Mirzahosseini Z, L Shabani, MR Sabzalian, S Dayanandan (2020) Comparative physiological and proteomic analysis of *Arabidopsis thaliana* revealed differential wound stress responses following the exposure to different LED light sources. *Environmental and Experimental Botany*, 169, 103895., @2020 [Линк](#)
388. Mirzahosseini Z, Shabani L, Sabzalian MR (2020) LED lights increase an antioxidant capacity of *Arabidopsis thaliana* under wound-induced stresses. *Functional Plant Biology* 47, 853-864., @2020 [Линк](#)
389. Morais MB, Azevedo RA, Camara TR, Ulisses C, Albuquerque CC, Willadino L (2020) Antioxidative metabolism in sugarcane (*Poaceae*) varieties subjected to water and saline stress. *Revista Brasileira de Engenharia Agrícola e Ambiental*, 24(11), 776-782., @2020 [Линк](#)
390. Naguib DM, AMN Abdelraouf (2020) Onion dry scales extract induce resistance against bacterial wilt in eggplant through improving polyamines and antioxidant metabolism. *Biocatalysis and Agricultural Biotechnology*, 28, 101743., @2020 [Линк](#)
391. Neto APA, Oliveira GRF, Mello SC, Silva M, Gomes-Junior FG, Novembre ADLC, Azevedo RA (2020) Seed priming with seaweed extract mitigate heat stress in spinach: effect on germination, seedling growth and antioxidant capacity. *Bragantia*, 79(4), 377-386., @2020 [Линк](#)
392. Nguyen VL, TN Dinh, HB Nguyen, TMA Nguyen, TY Vu; TPL Thieu, VH Nguyen, TNH Lai (2020) UVB exposure induced accumulation of phenolics and resveratrol and enhanced antioxidant activities in peanut sprouts. *Carpathian Journal of Food Science & Technology*, 12(1), 89-101., @2020 [Линк](#)
393. Nisreen A AL-Quraan, M-Ali H AL-Akhras, Dua'a Z Talafha (2020) The influence of laser beam and high light intensity on lentil (*Lens culinaris*) and wheat (*Triticum aestivum*) seedlings growth and metabolism, *Plant Biosystems*, DOI: 10.1080/11263504.2020.1837280, @2020 [Линк](#)
394. Noori A, T Donnelly, J Colbert, W Cai, LA Newman, JC White (2020) Exposure of tomato (*Lycopersicon esculentum*) to silver nanoparticles and silver nitrate: physiological and molecular response. *International Journal of Phytoremediation*, 22(1), 40-51., @2020 [Линк](#)
395. Nováková S, Z Šubr, A Kováč, I Fialová, G Beke, M Danchenko (2020) Cucumber mosaic virus resistance: Comparative proteomics of contrasting *Cucumis sativus* cultivars after long-term infection. *Journal of Proteomics*, 214, 103626., @2020 [Линк](#)

396. Oliveira KR, JP Souza Junior, SJ Bennett, MV Checchio, RC Alves, G Felisberto, RM Prado, PL Gratão (2020) Exogenous silicon and salicylic acid applications improve tolerance to boron toxicity in field pea cultivars by intensifying antioxidant defence systems. *Ecotoxicology and Environmental Safety*, 201, 110778., @2020 [Линк](#)
397. Pascoli M, FP de Albuquerque, AK Calzavara, B Tinoco-Nunes, WHC Oliveira, KC Gonçalves, RA Polanczyk, JFD Vechia, STS de Matos, DJ de Andrade, HC Oliveira, JA Souza-Neto, R de Lima, LF Fraceto (2020) The potential of nanobiopesticide based on zein nanoparticles and neem oil for enhanced control of agricultural pests. *J Pest Sci*, 93, 793–806., @2020 [Линк](#)
398. Peralta JM, CN Travaglia, MC Romero-Puertas, A Furlan, S Castro, E Bianucci (2020) Unraveling the impact of arsenic on the redox response of peanut plants inoculated with two different *Bradyrhizobium* sp. strains. *Chemosphere*, 259, 127410., @2020 [Линк](#)
399. Peters LP, NS Teixeira-Silva, AP Bini, MML Silva, N Moraes, GS Crestana, S Creste, RA Azevedo, G Carvalho, CB Monteiro-Vitorello (2020) Differential responses of genes and enzymes associated with ROS protective responses in the sugarcane smut fungus. *Fungal Biology*, 124(12), 1039-1051., @2020 [Линк](#)
400. Pignattelli S, A Broccoli, M Renzi (2020) Physiological responses of garden cress (*L. sativum*) to different types of microplastics. *Science of The Total Environment*, 727, 138609., @2020 [Линк](#)
401. Praveen A, C Pandey, E Khan, M Panthri, Meetu Gupta (2020) Silicon-mediated genotoxic alterations in *Brassica juncea* under arsenic stress: A comparative study of biochemical and molecular markers, *Pedosphere*, 30(4), 517-527., @2020 [Линк](#)
402. Prity SA, SA Sajib, U Das, M Rahman, SA Haider, AH Kabir (2020) Arbuscular mycorrhizal fungi mitigate Fe deficiency symptoms in sorghum through phytosiderophore-mediated Fe mobilization and restoration of redox status. *Protoplasma* 257, 1373–1385., @2020 [Линк](#)
403. Qi C, H Zhang, Y Liu, X Wang, D Dong, X Yuan, X Li, X Zhang, X Li, N Zhang, Y-D Guo (2020) CsSNAT positively regulates salt tolerance and growth of cucumber by promoting melatonin biosynthesis. *Environmental and Experimental Botany*, 175, 104036., @2020 [Линк](#)
404. Rashid M, JG Hampton, ML Shaw, MP Rolston, KM Khan, DJ Saville (2020) Oxidative damage in forage rape (*Brassica napus* L.) seeds following heat stress during seed development. *J Agron Crop Sci*, 206(1), 101-117., @2020 [Линк](#)
405. Rashidiani N, F Nazari, T Javadi, S Samadi (2020) Comparative postharvest responses of carnation and chrysanthemum to synthesized silver nanoparticles (AgNPs). *Advances in Horticultural Science*, 34(2), 133145., @2020 [Линк](#)
406. Rashidiani N, F Nazari, T Javadi, S Samadi (2020) Copper nanoparticles (CuNPs) increase the vase life of cut carnation and chrysanthemum flowers: antimicrobial ability and morphophysiological improvements. *Ornamental Horticulture*, 26(2), 225-235., @2020 [Линк](#)
407. Rivas R, Barros V, Falcão H, Frosi G, Arruda E, Santos M (2020) Ecophysiological Traits of Invasive C3 Species *Calotropis procera* to Maintain High Photosynthetic Performance Under High VPD and Low Soil Water Balance in Semi-Arid and Seacoast Zones. *Frontiers in Plant Science*, 11, 717., @2020 [Линк](#)
408. Rodriguez R, P Durán (2020) Natural Holobiome Engineering by Using Native Extreme Microbiome to Counteract the Climate Change Effects. *Frontiers in bioengineering and biotechnology*, 8, 568., @2020 [Линк](#)
409. Rohilla D, S Chaudhary, N Singh, DR Batish, HP Singh (2020) Agronomic providences of surface functionalized CuO nanoparticles on *Vigna radiata*. *Environmental Nanotechnology, Monitoring & Management*, 14, 100338., @2020 [Линк](#)
410. Romero PIA, AFTAF Ferreira, RG Velasco, MEM Herrera, MLS Siclán, CFC Coba (2020) Effect of Potassium Phosphite, Silicon and Chitosanin resistance of rose in response to infection by *Peronosporasparsa*. *Revista Agraria Academica*, 3(3), 128-138., @2020 [Линк](#)

411. Sahay S, E Khan, A Praveen, M Panthri, Z Mirza, M Gupta (2020) Sulphur potentiates selenium to alleviate arsenic-induced stress by modulating oxidative stress, accumulation and thiol-ascorbate metabolism in *Brassica juncea* L. *Environ Sci Pollut Res*, 27, 11697–11713., @2020 [Линк](#)
412. Saidi M, Aliakbary K, Hasanbeigi H, Mohammadi M (2020) The Effect of GABA in Induction of Chilling Resistance in Cucumber (*Cucumis sativus* L.) Seedlings. *Journal of Vegetables Sciences*, 3(2), doi: 10.22034/iuvs.2020.115370.1072, @2020 [Линк](#)
413. Sajib SA, M Billah, S Mahmud, M Miah, F Hossain, FB Omar, NC Roy, KMF Hoque, MR Talukder, AH Kabir, A Reza (2020) Plasma activated water: the next generation eco-friendly stimulant for enhancing plant seed germination, vigor and increased enzyme activity, a study on black gram (*Vigna mungo* L.). *Plasma Chem Plasma Process* 40, 119–143., @2020 [Линк](#)
414. Santos DYAC, MJP Ferreira, TM Matos, WR Sala-Carvalho, F Anselmo-Moreira, LP Roma, JCS Carvalho, M Peña-Hidalgo, K French, MJ Waterman, SA Robinson, CM Furlan (2020) UV-B and Drought Stress Influenced Growth and Cellular Compounds of Two Cultivars of *Phaseolus vulgaris* L. (Fabaceae). *Photochemistry and Photobiology*, <https://doi.org/10.1111/php.13318>, @2020 [Линк](#)
415. Sarker U, S Oba (2020) The Response of Salinity Stress-Induced *A. tricolor* to Growth, Anatomy, Physiology, Non-Enzymatic and Enzymatic Antioxidants. *Frontiers in plant science*, 11, 559876., @2020 [Линк](#)
416. Sarmadi M, N Karimi, J Palazón, A Ghassempour, MH Mirjalili (2020) Physiological, biochemical, and metabolic responses of a *Taxus baccata* L. callus culture under drought stress. *In Vitro Cellular & Developmental Biology - Plant*, 56, 703–717., @2020 [Линк](#)
417. Shah M, S Nawaz, H Jan, N Uddin, A Ali, S Anjum, Ne Giglioli-Guivarc'h, C Hano, BH Abbasi (2020) Synthesis of bio-mediated silver nanoparticles from *Silybum marianum* and their biological and clinical activities. *Materials Science and Engineering: C*, 112, 110889., @2020 [Линк](#)
418. Sharma AD, Kaur P, Mamik S, Mehta M, Sharma N (2020) Involvement of Boiling Stable Antioxidant Enzymes in Adaptation of Invasive Alien Plant *Lantana* to Abiotic Stress under Natural Conditions. *Russ J Plant Physiol* 67, 139–145., @2020 [Линк](#)
419. Sharma B, R Deswal (2020) Ecophysiological analysis of stress tolerant Himalayan shrub *Hippophae rhamnoides* shows multifactorial acclimation strategies induced by diverse environmental conditions. *Physiol Plant*, 168(1), 58-76., @2020 [Линк](#)
420. Sharma P, SR Sharma, TC Mittal (2020) Effects and Application of Ionizing Radiation on Fruits and Vegetables: A Review. *Journal of Agricultural Engineering*, 57(2): 97-126., @2020 [Линк](#)
421. Sharma S, B Sahu, S Srinivasan, M Singh, J Govindasamy, V Shanmugam (2020) Effect of galvanotaxic graphene oxide on chloroplast activity: Interaction quantified with Biolayer-Interferometry coupled confocal microscopy. *Carbon*, 162, 147-156., @2020 [Линк](#)
422. Silva LG, Camargo R, Lana RMQ, Delvaux JC, Fagan EB, Machado VJ (2020) Biochemical changes and development of soybean with use of pelletized organomineral fertilizer containing sewage sludge and filter cake. *Acta Scientiarum. Agronomy*, 42(1), e44249., @2020 [Линк](#)
423. Silva MMA, LT Ferreira, FMT Vasconcelos, L Willadino, TR Camara, DYAC Santos, AFM Oliveira (2020) Water Stress-Induced Responses in the Growth, Cuticular Wax Composition, Chloroplast Pigments and Soluble Protein Content, and Redox Metabolism of Two Genotypes of *Ricinus communis* L. *J Plant Growth Regul.* <https://doi.org/10.1007/s00344-020-10103-6>, @2020 [Линк](#)
424. Silva VM, RFR Tavanti, PL Gratão, TD Alcock, AR dos Reis (2020) Selenate and selenite affect photosynthetic pigments and ROS scavenging through distinct mechanisms in cowpea (*Vigna unguiculata* (L.) walp) plants. *Ecotoxicology and Environmental Safety*, 201, 110777., @2020 [Линк](#)
425. Singla P, RD Bhardwaj, S Kaur, J Kaur (2020) Stripe rust induced defence mechanisms in the leaves of contrasting barley genotypes (*Hordeum vulgare* L.) at the seedling stage. *Protoplasma* 257, 169–181., @2020 [Линк](#)
426. Sivaramakrishnan R, A Incharoensakdi (2020) Plant hormone induced enrichment of *Chlorella* sp. omega-3 fatty acids. *Biotechnol Biofuels*, 13, 7., @2020 [Линк](#)

427. Sogvar OB, Rabiei V, Razavi F, Gohari G (2020) Phenylalanine Alleviates Postharvest Chilling Injury of Plum Fruit by Modulating Antioxidant System and Enhancing the Accumulation of Phenolic Compounds. *Food Technol Biotechnol*, 58(4):433-444. doi:10.17113/ftb.58.04.20.6717, @2020
428. Sun M, F Jiang, R Zhou, H Lv, J Wen, S Cui, Z Wu (2020) NADPH-H<sub>2</sub>O<sub>2</sub> shows different functions in regulating thermotolerance under different high temperatures in *Solanum pimpinellifolium* L. *Scientia Horticulturae*, 261, 108997., @2020 [Линк](#)
429. Tang X, An B, Cao D, Xu R, Wang S, Zhang Z, Liu X, Sun X (2020) Improving Photosynthetic Capacity, Alleviating Photosynthetic Inhibition and Oxidative Stress Under Low Temperature Stress With Exogenous Hydrogen Sulfide in Blueberry Seedlings. *Frontiers in plant science*, 11, 108., @2020 [Линк](#)
430. Tao M-Q, MS Jahan, K Hou, S Shu, Y Wang, J Sun, S-R Guo (2020) Bitter Melon (*Momordica charantia* L.) Rootstock Improves the Heat Tolerance of Cucumber by Regulating Photosynthetic and Antioxidant Defense Pathways. *Plants*, 9(6), 692., @2020 [Линк](#)
431. Tavanti RFR, GD Queiroz, ACDR Silva, WM Peres, AP Paixão, FS Galindo, VM Silva, JW Bossolani, MM Melero, GDS Oliveira, EF Furlani Júnior, ARD Reis (2020) Changes in photosynthesis and antioxidant metabolism of cotton (*Gossypium hirsutum* L.) plants in response to manganese stress. *Arch Agron Soil Sci*, 66(6), 743-762., @2020 [Линк](#)
432. Timachi F, Armin M, Jamimoeini M, Abhari A (2020) Physiological Response of Cumin to Times and Type of Stress Modulator in Rain-Fed and Irrigated Conditions. *Russ J Plant Physiol* 67, 1163–1172., @2020 [Линк](#)
433. Toghyani MA, F Karimi, SAH Tafreshi, D Talei (2020) Two distinct time dependent strategic mechanisms used by *Chlorella vulgaris* in response to gamma radiation. *J Appl Phycol*, 32, 1677–1695., @2020 [Линк](#)
434. Tonhati R, SC Mello, P Momesso, RM Pedroso (2020) L-proline alleviates heat stress of tomato plants grown under protected environment. *Scientia Horticulturae*, 268, 109370., @2020 [Линк](#)
435. Usman H, Ullah MA, Jan H, Siddiquah A, Drouet S, Anjum S, Giglioli-Guviarc'h N, Hano C, Abbasi BH (2020) Interactive Effects of Wide-Spectrum Monochromatic Lights on Phytochemical Production, Antioxidant and Biological Activities of *Solanum xanthocarpum* Callus Cultures. *Molecules*, 25(9), 2201., @2020 [Линк](#)
436. Valipour M, B Baninasab, AH Khoshgoftarmanesh, M Gholami (2020) Oxidative stress and antioxidant responses to direct and bicarbonate-induced iron deficiency in two quince rootstocks. *Scientia Horticulturae*, 261, 108933. <https://doi.org/10.1016/j.scienta.2019.108933>, @2020 [Линк](#)
437. Vazquez-Hernandez M, M Blanch, MT Sanchez-Ballesta, C Merodio, MI Escribano (2020) High CO<sub>2</sub> alleviates cell ultrastructure damage in Autumn Royal table grapes by modulating fatty acid composition and membrane and cell oxidative status during long-term cold storage. *Postharvest Biology and Technology*, 160, 111037., @2020 [Линк](#)
438. Verma RK, VVS Kumar, SK Yadav, TS Kumar, MV Rao, V Chinnusamy (2020) Overexpression of *Arabidopsis* ICE1 enhances yield and multiple abiotic stress tolerance in indica rice, *Plant Signaling & Behavior*, 15:11., @2020 [Линк](#)
439. Wang C-J, Y-Z Wang, Z-H Chu, P-S Wang, B-Y Liu, B-Y Li, X-L Yu, B-H Luan (2020) Endophytic *Bacillus amyloliquefaciens* YTB1407 elicits resistance against two fungal pathogens in sweet potato (*Ipomoea batatas* (L.) Lam.). *Journal of Plant Physiology*, 253, 153260., @2020 [Линк](#)
440. Wang, R.; Huang, J.; Liang, A.; Wang, Y.; Mur, L.A.J.; Wang, M.; Guo, S. Zinc and Copper Enhance Cucumber Tolerance to Fusaric Acid by Mediating Its Distribution and Toxicity and Modifying the Antioxidant System. *Int. J. Mol. Sci.*, 21(9), 3370., @2020 [Линк](#)
441. Wu Z, Q Jiang, T Yan, X Zhang, S Xu, H Shi, T, Deng, F Li, Y Du, R Du, C Hu, X Wang, F Wang (2020) Ammonium nutrition mitigates cadmium toxicity in rice (*Oryza sativa* L.) through improving antioxidase system and the glutathione-ascorbate cycle efficiency. *Ecotoxicology and Environmental Safety*, 189, 110010., @2020 [Линк](#)

442. Xu Z, J Ma, P Lei, Q Wang, X Feng, H Xu (2020) Poly- $\gamma$ -glutamic acid induces system tolerance to drought stress by promoting abscisic acid accumulation in *Brassica napus* L. *Sci Rep* 10, 252., @2020 [Линк](#)
443. Yamani ME, EH Sakar, A Boussakouran, Y Rharrabti (2020) Leaf water status, physiological behavior and biochemical mechanism involved in young olive plants under water deficit. *Scientia Horticulturae*, 261, 108906., @2020 [Линк](#)
444. Yan Y, M Sun, Y Li, J Wang, C He, X Yu (2020) The CsGPA1-CsAQPs module is essential for salt tolerance of cucumber seedlings. *Plant Cell Rep*, 39, 1301–1316., @2020 [Линк](#)
445. Yang SH, Wei JJ, Yan F, Jia RD, Zhao X, Gan Y, Ge H (2020) Differences in leaf anatomy, photosynthesis, and photoprotective strategies in the yellow-green leaf mutant and wild type of *Rosa beggeriana* Schrenk. *Photosynthetica*, 58(5), 1167-1177., @2020 [Линк](#)
446. Yoon HI, Kim D, Son JE (2020) Spatial and Temporal Bioactive Compound Contents and Chlorophyll Fluorescence of Kale (*Brassica oleracea* L.) Under UV-B Exposure Near Harvest Time in Controlled Environments. *Photochem Photobiol*, 96: 845-852., @2020 [Линк](#)
447. Yoon HI, Zhang W, Son JE (2020) Optimal Duration of Drought Stress Near Harvest for Promoting Bioactive Compounds and Antioxidant Capacity in Kale with or without UV-B Radiation in Plant Factories. *Plants*, 9(3), 295., @2020 [Линк](#)
448. Yosefi A, Mozafari AA, Javadi T (2020) Jasmonic acid improved in vitro strawberry (*Fragaria* × *ananassa* Duch.) resistance to PEG-induced water stress. *Plant Cell Tiss Organ Cult*, 142, 549–558., @2020 [Линк](#)
449. Zahedi SM, Moharrami F, Sarikhani S, Padervand M (2020) Selenium and silica nanostructure-based recovery of strawberry plants subjected to drought stress. *Sci Rep*, 10, 17672., @2020 [Линк](#)
450. Zahedi SM, MS Hosseini, J Abadía, M Marjani (2020) Melatonin foliar sprays elicit salinity stress tolerance and enhance fruit yield and quality in strawberry (*Fragaria* × *ananassa* Duch.). *Plant Physiology and Biochemistry*, 149, 313-323., @2020 [Линк](#)
451. Zarei T, A Moradi, SA Kazemeini, A Akhgar, AA Rahi (2020) The role of ACC deaminase producing bacteria in improving sweet corn (*Zea mays* L. var *saccharata*) productivity under limited availability of irrigation water. *Sci Rep* 10, 20361., @2020 [Линк](#)
452. Zhang C, M Chen, G Liu, G Huang, Y Wang, S Yang, X Xu (2020) Enhanced UV-B radiation aggravates negative effects more in females than in males of *Morus alba* saplings under drought stress. *Environmental and Experimental Botany*, 169, 103903., @2020 [Линк](#)
453. Zhang H, Li X, Guan Y, Li M, Wang Y, An M, Zhang Y, Liu G, Xu N, Sun G (2020) Physiological and proteomic responses of reactive oxygen species metabolism and antioxidant machinery in mulberry (*Morus alba* L.) seedling leaves to NaCl and NaHCO<sub>3</sub> stress. *Ecotoxicology and Environmental Safety*, 193, 110259., @2020 [Линк](#)
454. Zhang H, Li X, Xu Z, Wang Y, Teng Z, An M, Zhang Y, Zhu W, Xu N, Sun G (2020) Toxic effects of heavy metals Pb and Cd on mulberry (*Morus alba* L.) seedling leaves: Photosynthetic function and reactive oxygen species (ROS) metabolism responses. *Ecotoxicology and Environmental Safety*, 195, 110469., @2020 [Линк](#)
455. Zhang H, Y Huo, Z Xu, K Guo, Y Wang, X Zhang, N Xu, G Sun (2020) Physiological and proteomics responses of nitrogen assimilation and glutamine/glutamine family of amino acids metabolism in mulberry (*Morus alba* L.) leaves to NaCl and NaHCO<sub>3</sub> stress. *Plant Signaling & Behavior*, 15:10. DOI: 10.1080/15592324.2020.1798108, @2020 [Линк](#)
456. Zhang X, X Zhang, L Zhang, Y Zhang, D Zhang, X Gu, Y Zheng, T Wang, C Li (2020) Metabolite profiling for model cultivars of wheat and rice under ozone pollution. *Environmental and Experimental Botany*, 179, 104214., @2020 [Линк](#)
457. Zhang Z, Liu Y, Cao B., Chen Z, Xu K (2020) The effectiveness of grafting to improve drought tolerance in tomato. *Plant Growth Regul*, 91, 157–167., @2020 [Линк](#)
458. Zhu Y, Luo X, Nawaz G, Yin J, Yang J (2020) Physiological and Biochemical Responses of four cassava cultivars to drought stress. *Sci Rep*, 10, 6968., @2020 [Линк](#)

459. Abbasi-Vineh MA, Sabet MS, Karimzadeh G (2021) Identification and Functional Analysis of Two Purple Acid Phosphatases AtPAP17 and AtPAP26 Involved in Salt Tolerance in Arabidopsis thaliana Plant. *Frontiers in Plant Science*, 11, 2326., @2021 [Линк](#)
460. Agha MS, Abbas MA, Sofy MR, Haroun SA, Mowafy AM (2021) Dual inoculation of Bradyrhizobium and Enterobacter alleviates the adverse effect of salinity on Glycine max seedling. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 49(3), 12461., @2021 [Линк](#)
461. Ahmad J, AA Ali, AA Al-Huqail, MI Qureshi (2021) Triaccontanol attenuates drought-induced oxidative stress in Brassica juncea L. by regulating lignification genes, calcium metabolism and the antioxidant system. *Plant Physiology and Biochemistry*, 166, 985-998., @2021 [Линк](#)
462. Ahmad N, Khan P, Khan A, Usman M, Ali M, Fazal H, Durrishahwar, Uddin MN, Hano C, Abbasi BH (2021) Elicitation of Submerged Adventitious Root Cultures of Stevia rebaudiana with Cuscuta reflexa for Production of Biomass and Secondary Metabolites. *Molecules*, 27(1), 14. <https://doi.org/10.3390/molecules27010014>, @2021 [Линк](#)
463. Ahmadi F, Nazari F, Ghaderi N, da Silva JAT (2021) Assessment of Morpho-Physiological and Biochemical Responses of Perennial Ryegrass to Gamma-Aminobutyric Acid (GABA) Application Under Salinity Stress Using Multivariate Analyses Techniques. *J Plant Growth Regul*, <https://doi.org/10.1007/s00344-021-10538-5>, @2021 [Линк](#)
464. Ahmed N, Zhu M, Li Q, Wang X, Wan J, Zhang Y (2021) Glycine Betaine-Mediated Root Priming Improves Water Stress Tolerance in Wheat (Triticum aestivum L.). *Agriculture*, 11(11):1127., @2021 [Линк](#)
465. Al-Quraan NA, Al-Ajlouni ZI, Qawasma NF (2021) Physiological and Biochemical Characterization of the GABA Shunt Pathway in Pea (Pisum sativum L.) Seedlings under Drought Stress. *Horticulturae*, 7(6):125., @2021 [Линк](#)
466. Alcantara BK, MEA Carvalho, SA Gaziola, KLR Borges, FA Piotto, AP Jacomino, RA Azevedo (2021) Tolerance of tomato to cadmium-induced stress: analyzing cultivars with different fruit colors. *Environ Sci Pollut Res*, 28, 26172–26181., @2021 [Линк](#)
467. Alves RC, DR Rossatto, JS da Silva, MV Checchio, KR de Oliveira, FA Oliveira, SF de Queiroz, MCP da Cruz, PL Gratão (2021) Seed priming with ascorbic acid enhances salt tolerance in micro-tom tomato plants by modifying the antioxidant defense system components. *Biocatalysis and Agricultural Biotechnology*, 31, 101927., @2021 [Линк](#)
468. Ansari N, Yadav DS, Agrawal M, Agrawal SB (2021) The impact of elevated ozone on growth, secondary metabolites, production of reactive oxygen species and antioxidant response in an anti-diabetic plant Costus pictus. *Functional Plant Biology* 48, 597-610., @2021 [Линк](#)
469. Anđela K, Davidović-Plavšić B, Lukić D, Gajić N, Žabić M, Škondrić S, Kukavica B (2021) Efekat nikosulfurona na biohemijske markere oksidativnog stresa u listu i korijenu kukuruza. *Biljni lekar*, 49(2), 201-217., @2021 [Линк](#)
470. Azizi M, EM Fard, M Ghabooli (2021) Piriformospora indica affect drought tolerance by regulation of genes expression and some morphophysiological parameters in tomato (Solanum lycopersicum L.). *Scientia Horticulturae*, 287, 110260., @2021 [Линк](#)
471. Bahar AA, Faried HN, Razzaq K, Ullah S, Akhtar G, Amin M, Bashir M, Ahmed N, Wattoo FM, Ahmar S, Javed T, Siddiqui MH, Branca F, Dessoky ES (2021) Potassium-Induced Drought Tolerance of Potato by Improving Morpho-Physiological and Biochemical Attributes. *Agronomy*, 11(12), 2573. <https://doi.org/10.3390/agronomy11122573>, @2021 [Линк](#)
472. Bامary Z, Einali A (2021) Changes in Carbon Partitioning and Pattern of Antioxidant Enzyme Activity Induced by Arginine Treatment in the Green Microalga Dunaliella salina Under Long-Term Salinity. *Microb Ecol*, , @2021 [Линк](#)
473. Barreto RF, R de Mello Prado, JCB Lúcio, I López-Díaz, E Carrera, RF Carvalho (2021) Ammonium Toxicity Alleviation by Silicon is Dependent on Cytokinins in Tomato cv. Micro-Tom. *J Plant Growth Regul*, <https://doi.org/10.1007/s00344-021-10314-5>, @2021 [Линк](#)



474. Bhardwaj RD, N Singh, A Sharma, R Joshi, P Srivastava (2021) Hydrogen peroxide regulates antioxidant responses and redox related proteins in drought stressed wheat seedlings. *Physiol Mol Biol Plants* 27, 151–163., @2021 [Линк](#)
475. Billah M, S Karmakar, FB Mina, Md N Haque, Md M Rashid, Md F Hasan, UK Acharjee, MR Talukder (2021) Investigation of mechanisms involved in seed germination enhancement, enzymatic activity and seedling growth of rice (*Oryza Sativa* L.) using LPDBD (Ar+Air) plasma. *Archives of Biochemistry and Biophysics*, 698, 108726., @2021 [Линк](#)
476. Borgo L, FHS Rabêlo, IGF Budzinski, TR Cataldi, TG Ramires, PDC Schaker, AF Ribas, CA Labate, J Lavres, A Cuypers, RA Azevedo (2021) Proline Exogenously Supplied or Endogenously Overproduced Induces Different Nutritional, Metabolic, and Antioxidative Responses in Transgenic Tobacco Exposed to Cadmium. *J Plant Growth Regul*, <https://doi.org/10.1007/s00344-021-10480-6>, @2021 [Линк](#)
477. Cardoso AAS, FA Monteiro (2021) Sulfur supply reduces barium toxicity in Tanzania guinea grass (*Panicum maximum*) by inducing antioxidant enzymes and proline metabolism. *Ecotoxicology and Environmental Safety*, 208, 111643., @2021 [Линк](#)
478. Chipilski R, Moskova I, Pencheva A, Kocheva K (2021) Field priming with cytokinins enhances seed viability of wheat after low temperature storage. *Plant Soil Environ*, 67: 77–84., @2021 [Линк](#)
479. Chow YN, LK Lee, KY Foo (2021) Scientific rationale of hospital discharge as a sustainable source of irrigation water: Detection, phytological assessment and toxicity verification. *Process Safety and Environmental Protection*, 148, 834-845., @2021 [Линк](#)
480. Chowardhara B, B Saha, P Borgohain, JP Awasthi, SK Panda (2021) Differential amelioration of cadmium toxicity by sodium nitroprusside and citric acid in *Brassica juncea* (L.) Czern and Coss. *Biocatalysis and Agricultural Biotechnology*, 35, 102091., @2021 [Линк](#)
481. Chunduri V, Kaur A, Kaur S, Kumar A, Sharma S, Sharma N, Singh P, Kapoor P, Kaur S, Kumari A, Roy J, Kaur J, Garg M (2021) Gene Expression and Proteomics Studies Suggest an Involvement of Multiple Pathways Under Day and Day-Night Combined Heat Stresses During Grain Filling in Wheat. *Frontiers in plant science*, 12, 660446., @2021 [Линк](#)
482. Colombari LF, GF da Silva, L Chamma, PPN Chaves, BNM Martins, LG Jorge, PNL Silva, FF Putti, All Cardoso (2021) Maturation and Resting of Sweet Pepper Fruits on Physiological Quality and Biochemical Response of Seeds. *Brazilian Archives of Biology and Technology*, 64: e21200733. <https://doi.org/10.1590/1678-4324-2021200733>, @2021 [Линк](#)
483. Conceição VJ, SC Mello, MEA Carvalho, SA Gaziola, RA Azevedo (2021) Exogenous arginine modulates leaf antioxidant enzymes and hydrogen peroxide content in tomato plants under transient heat stresses. *Bragantia*, 80, <https://doi.org/10.1590/1678-4499.20200493>, @2021 [Линк](#)
484. da Silva CB, NM Oliveira, MEA de Carvalho, AD de Medeiros, M de Lima Nogueira, AR dos Reis (2021) Autofluorescence-spectral imaging as an innovative method for rapid, non-destructive and reliable assessing of soybean seed quality. *Sci Rep* 11, 17834., @2021 [Линк](#)
485. da Silva Engela MRG, CM Furlan, MP Esposito, FF Fernandes, E Carrari, M Domingos, E Paoletti, Y Hoshika (2021) Metabolic and physiological alterations indicate that the tropical broadleaf tree *Eugenia uniflora* L. is sensitive to ozone. *Science of The Total Environment*, 769, 145080., @2021 [Линк](#)
486. da Silva JLF, R de Mello Prado, JP de Souza Junior, LFL Tenesaca, DL da Silva, JS Pinsetta Junior (2021) Feasibility of Silicon Addition to Boron Foliar Spraying in Cauliflowers. *J Soil Sci Plant Nutr* 21, 2448–2455., @2021 [Линк](#)
487. da Silva JR, RM Boaretto, JAL Lavorenti, BCF dos Santos, HD Coletta-Filho, D Mattos Jr (2021) Effects of Deficit Irrigation and Huanglongbing on Sweet Orange Trees. *Frontiers in Plant Science*. 12, 2228., @2021 [Линк](#)
488. Dadkhah-Aghdash H, M Heydari, H Zare-Maivan, M Sharifi, I Miralles, ME Lucas-Borja (2021) Variation in Brant's oak (*Quercus brantii* Lindl.) leaf traits in response to pollution from a gas refinery in semiarid forests of western Iran. *Environ Sci Pollut Res*, <https://doi.org/10.1007/s11356-021-16270-7>, @2021 [Линк](#)

489. Das U, A Rahman, EJ Ela, K-W Lee, AH Kabir (2020) Sulfur triggers glutathione and phytochelatin accumulation causing excess Cd bound to the cell wall of roots in alleviating Cd-toxicity in alfalfa. *Chemosphere*, 262, 128361., @2021 [Линк](#)
490. Das U, Md R Islam, Mst S Akther, SA Prity, Md S Parvez, AH Kabir (2021) The downregulation of Fe-acquisition genes in the plasma membrane along with antioxidant defense and nitric oxide signaling confers Fe toxicity tolerance in tomato. *Scientia Horticulturae*, 279, 109897., @2021 [Линк](#)
491. de Araújo Silva, LT Ferreira, FMTeles de Vasconcelos, L Willadino, TR Camara, DYAC dos Santos, AFM de Oliveira (2021) Water Stress-Induced Responses in the Growth, Cuticular Wax Composition, Chloroplast Pigments and Soluble Protein Content, and Redox Metabolism of Two Genotypes of *Ricinus communis* L. *J Plant Growth Regul*, 40, 342–352., @2021 [Линк](#)
492. de Brito Mateus MP, RFR Tavanti, TR Tavanti, EF Santos, A Jalal, AR dos Reis (2021) Selenium biofortification enhances ROS scavenge system increasing yield of coffee plants. *Ecotoxicology and Environmental Safety*, 209, 111772., @2021 [Линк](#)
493. de Souza Rodrigues J, RB Ventura, RT da Silva Santos, AL Bacha, PL Gratão, TL Grey, PLCA Alves (2021) Effect of subdoses of sugarcane ripeners on lettuce physiology in a drift scenario. *Ecotoxicology* 30, 575–584., @2021 [Линк](#)
494. Dong Y, M Gao, W Qiu, Z Song (2021) Uptake of microplastics by carrots in presence of As (III): Combined toxic effects. *Journal of Hazardous Materials*, 411, 125055., @2021 [Линк](#)
495. Du H, G Liu, C Hua, D Liu, Y He, H Liu, R Kurtenbach, D Ren (2021) Exogenous melatonin alleviated chilling injury in harvested plum fruit via affecting the levels of polyamines conjugated to plasma membrane. *Postharvest Biology and Technology*, 179, 111585., @2021 [Линк](#)
496. D’Amico-Damião V, JCB Lúcio, R Oliveira, LA Gaion, RF Barreto, RF Carvalho (2021) Cryptochrome 1a depends on blue light fluence rate to mediate osmotic stress responses in tomato. *Journal of Plant Physiology*, 258–259, 153374., @2021 [Линк](#)
497. Ekwealor JTB, Mishler BD (2021) Transcriptomic Effects of Acute Ultraviolet Radiation Exposure on Two *Syntrichia* Mosses. *Front Plant Sci*, 12:752913., @2021 [Линк](#)
498. El-Shora HM, Massoud GF, El-Sherbeny GA, Alrdahe SS, Darwish DB (2021) Alleviation of Lead Stress on Sage Plant by 5-Aminolevulinic Acid (ALA). *Plants*, 10(9):1969., @2021 [Линк](#)
499. ElSayed AI, Rafudeen MS, Goma AM, Hasanuzzaman M (2021) Exogenous melatonin enhances the reactive oxygen species metabolism, antioxidant defense-related gene expression, and photosynthetic capacity of *Phaseolus vulgaris* L. to confer salt stress tolerance. *Physiologia Plantarum*, 173: 1369–1381., @2021 [Линк](#)
500. Farooq M, R Ahmad, M Shahzad, Y Sajjad, A Hassan, MM Shah, S Naz, SA Khan (2021) Differential variations in total flavonoid content and antioxidant enzymes activities in pea under different salt and drought stresses. *Scientia Horticulturae*, 287, 110258. <https://doi.org/10.1016/j.scienta.2021.110258>, @2021 [Линк](#)
501. Fei J, Y-S Wang, H Cheng, F-L Sun, C-C Sun (2021) Comparative physiological and proteomic analyses of mangrove plant *Kandelia obovata* under cold stress. *Ecotoxicology* 30, 1826–1840., @2021 [Линк](#)
502. Fiala R, I Fialová, M Vaculík, M Luxová (2021) Effect of silicon on the young maize plants exposed to nickel stress. *Plant Physiology and Biochemistry*, 166, 645-656., @2021 [Линк](#)
503. Fuhrmann-Aoyagi MB, C de Fátima Ruas, EGG Barbosa, P Braga, LAC Moraes, ACB de Oliveira, N Kanamori, K Yamaguchi-Shinozaki, K Nakashima, AL Nepomuceno, LM Mertz-Henning (2021) Constitutive expression of *Arabidopsis* bZIP transcription factor AREB1 activates cross-signaling responses in soybean under drought and flooding stresses. *Journal of Plant Physiology*, 257, 153338., @2021 [Линк](#)
504. Gama VN, LV Zanetti, BPB Macieira, GRF Cuzzuol (2021) Lower oxidative damage and cell wall loosening, mediated or not by auxin, as part of the tolerance mechanism of *Paubrasilia echinata* morphotypes in the shade and full sun. *Acta Botanica Brasilica*, 35(4): 670-682. <https://dx.doi.org/10.1590/0102-33062020abb0504>, @2021 [Линк](#)

505. Gao W, XJ Wang, CC Yu, WJ Feng, DL Hua, GZ Kang, P Zhao (2021) Comparative morpho-physiological analyses revealed H<sub>2</sub>O<sub>2</sub>-Induced different cadmium accumulation in two wheat cultivars (*Triticum aestivum* L.). *Environmental and Experimental Botany*, 185, 104395., @2021 [Линк](#)
506. Ghotbi-Ravandi AA, M Sedighi, K Aghaei, A Mohtadi (2021) Differential Changes in D1 Protein Content and Quantum Yield of Wild and Cultivated Barley Genotypes Caused by Moderate and Severe Drought Stress in Relation to Oxidative Stress. *Plant Mol Biol Rep* 39, 501–507., @2021 [Линк](#)
507. Giannakoula A, Therios I, Chatzissavvidis C. Effect of Lead and Copper on Photosynthetic Apparatus in Citrus (*Citrus aurantium* L.) Plants. The Role of Antioxidants in Oxidative Damage as a Response to Heavy Metal Stress. *Plants*. 2021; 10(1):155., @2021 [Линк](#)
508. Gomes DG, Lopes-Oliveira PJ, Debiassi TV, Cunha LS, Oliveira HC (2021) Regression models to stratify the copper toxicity responses and tolerance mechanisms of *Glycine max* (L.) Merr. plants. *Planta*, 253, 43. <https://doi.org/10.1007/s00425-021-03573-9>, @2021 [Линк](#)
509. Gomes DG, Pelegrino MT, Ferreira AS, Bazzo JH, Zucareli C, Seabra AB, Oliveira HC (2021) Seed priming with copper-loaded chitosan nanoparticles promotes early growth and enzymatic antioxidant defense of maize (*Zea mays* L.) seedlings. *J Chem Technol Biotechnol*, 96: 2176-2184., @2021 [Линк](#)
510. Haghighi P, Habibi D, Mozafari H, Sani B, Sadeghishoae M (2021) Impact of Methanol and Glycine Betaine on Yield and Quality of Fodder Beet Genotypes (*Beta vulgaris* subsp. *vulgaris*). *Agronomy*, 11(11):2122., @2021 [Линк](#)
511. Hashim M, Ahmad B, Drouet S, Hano C, Abbasi BH, Anjum S (2021) Comparative Effects of Different Light Sources on the Production of Key Secondary Metabolites in Plants In Vitro Cultures. *Plants*, 10(8):1521., @2021 [Линк](#)
512. Hassan NM, HT Ebeed, HS Ahmed (2021) Exogenous Application of the Polyamine Spermine Delays Natural Leaf Senescence in Wheat Through Protecting Chlorophyll from Degradation and Preventing Oxidative Stress. *Scientific Journal for Damietta Faculty of Science*, 11(1), 38-46., @2021 [Линк](#)
513. Hassan NM, IG Budran, ZM El-Bastawisy, EH El-Harary, MMN Alla (2021) Stigmasterol Relieves the Negative Impact of Drought on Flax through Modulation of Redox Homeostasis. *Egyptian Journal of Botany*, 61(2), 623-635., @2021 [Линк](#)
514. He G, H Zhang, S Liu, H Li, Y Huo, K Guo, Z Xu, H Zhang (2021) Exogenous  $\gamma$ -glutamic acid (GABA) induces proline and glutathione synthesis in alleviating Cd-induced photosynthetic inhibition and oxidative damage in tobacco leaves. *Journal of Plant Interactions*, 16:1, 296-306. DOI: 10.1080/17429145.2021.1944676, @2021
515. He M, Wang Y, Jahan MS, Liu W, Raziq A, Sun J, Shu S, Guo S (2021) Characterization of SIBAG Genes from *Solanum lycopersicum* and Its Function in Response to Dark-Induced Leaf Senescence. *Plants*, 10(5):947., @2021 [Линк](#)
516. Heidarabad SM, A Ershadi (2021) Evaluation of some physiological and biochemical responses of seven commercial grape cultivars to cold stress during the growing season. *Iranian Journal of Horticultural Science*, 52(1), 213-224., @2021 [Линк](#)
517. Hernandez-Aguilar C, A Dominguez-Pacheco, MP Tenango, C Valderrama-Bravo, MS Hernández, A Cruz-Orea, J Ordonez-Miranda (2020) Characterization of Bean Seeds, Germination, and Phenolic Compounds of Seedlings by UV-C Radiation. *J Plant Growth Regul.*, 40, 642-655., @2021 [Линк](#)
518. Honório ABM, De-la-Cruz-Chacón I, Martínez-Vázquez M, da Silva MR, Campos FG, Martin BC, da Silva GC, Fernandes Boaro CS, Ferreira G (2021) Impact of Drought and Flooding on Alkaloid Production in *Annona crassiflora* Mart. *Horticulturae*, 7(10):414., @2021 [Линк](#)
519. Ibrahim LD, SI Neamah (2021) Influence of Salicylic Acid and Zn-Nps on Physiological Traits, Antioxidant Enzymes and Phenolic Compounds Production in a *Cucurbita Pepo* L. Callus Culture under Normal and Drought Stress. *Annals of the Romanian Society for Cell Biology*, 25(4), 4056–4068., @2021 [Линк](#)
520. Idris A, AC Linatoc, M Garba, ZI Takai (2021) Photoprotective Role of Quercetin to *Tetracera sarmentosa*. *ASM Sc. J.*, 16, Sp. Iss. 1, 2021 for SCIEATHIC2019, 196-210., @2021

521. Islam MS, S Fahad, A Hossain, MK Chowdhury, MA Iqbal, A Dubey, A Kumar, K Rajendran, S Danish, MHU Rahman, MA Raza, M Arif, S Saud, MA Hossain, E Waraich, Z Ahmad, S Hussain, A Çiğ, M Erman, F Çiğ, A El Sabagh (2021) Legumes under Drought Stress: Plant Responses, Adaptive Mechanisms, and Management Strategies in Relation to Nitrogen Fixation. In: Engineering Tolerance in Crop Plants Against Abiotic Stress. Fahad S, O Sönmez, S Saud, D Wang, C Wu, M Adnan, M Arif, Amanullah (Eds.), Boca Raton CRC Press, pp 310., @2021 [Линк](#)
522. Jaiswal B, Singh S, Agrawal SB, Agrawal M (2021) Assessment of physiological, biochemical and yield responses of wheat plants under natural saline and non-saline field conditions. *Physiol Mol Biol Plants* 27, 2315–2331., @2021 [Линк](#)
523. Jiménez-Muñoz R, F Palma, F Carvajal, A Castro-Cegrí, A Pulido, M Jamilena, MC Romero-Puertas, D Garrido (2021) Pre-storage nitric oxide treatment enhances chilling tolerance of zucchini fruit (*Cucurbita pepo* L.) by S-nitrosylation of proteins and modulation of the antioxidant response. *Postharvest Biology and Technology*, 171, 111345., @2021 [Линк](#)
524. Kabir AH, Das U, Rahman MA, Lee K-W (2021) Silicon induces metallochaperone-driven cadmium binding to the cell wall and restores redox status through elevated glutathione in Cd-stressed sugar beet. *Physiologia Plantarum*, 173: 352–368., @2021 [Линк](#)
525. Kabir AH, Mst S Akther, M Skalicky, U Das, G Gohari, M Brestic, Md M Hossain (2021) Downregulation of Zn-transporters along with Fe and redox imbalance causes growth and photosynthetic disturbance in Zn-deficient tomato. *Sci Rep* 11, 6040., @2021 [Линк](#)
526. Kahromi S, Khara J (2021) Chitosan stimulates secondary metabolite production and nutrient uptake in medicinal plant *Dracocephalum kotschyi*. *J Sci Food Agric*, 101: 3898-3907., @2021 [Линк](#)
527. Kang J-P, Y Huo, D-U Yang, D-C Yang (2020) Influence of the plant growth promoting *Rhizobium panacihumi* on aluminum resistance in *Panax ginseng*. *Journal of Ginseng Research*, 45(3) 442-449., @2021 [Линк](#)
528. Karmakar S, M Billah, M Hasan, SR Sohan, Md F Hossain, Md F Hoque, AH Kabir, Md M Rashid, MR Talukder, Md A Reza (2021) Impact of LFGD (Ar+O<sub>2</sub>) plasma on seed surface, germination, plant growth, productivity and nutritional composition of maize (*Zea mays* L.). *Heliyon*, 7(3), e06458., @2021 [Линк](#)
529. Kartseva T, Dobrikova A, Kocheva K, Alexandrov V, Georgiev G, Brestič M, Misheva S (2021) Optimal Nitrogen Supply Ameliorates the Performance of Wheat Seedlings under Osmotic Stress in Genotype-Specific Manner. *Plants*, 10(3):493., @2021 [Линк](#)
530. Kashyap SP, N Kumari, P Mishra, DP Moharana, M Aamir (2021) Tapping the potential of *Solanum lycopersicum* L. pertaining to salinity tolerance: perspectives and challenges. *Genet Resour Crop Evol* 68, 2207–2233., @2021 [Линк](#)
531. Kaur E, RD Bhardwaj, S Kaur, SK Grewal (2021) Drought stress-induced changes in redox metabolism of barley (*Hordeum vulgare* L.). *Biologia Futura*, 72, 347–358., @2021 [Линк](#)
532. Khandan-Mirkohi A, R Pirgazi, MR Taheri, L Ajdarian, M Babaei, M Jozay, M Hesari (2021) Effects of salicylic acid and humic material preharvest treatments on postharvest physiological properties of static cut flowers. *Scientia Horticulturae*, 283, 110009., @2021 [Линк](#)
533. Khator K, Saxena I, Shekhawat GS (2020) Nitric oxide induced Cd tolerance and phytoremediation potential of *B. juncea* by the modulation of antioxidant defense system and ROS detoxification. *Biometals*, 34, 15-32., @2021 [Линк](#)
534. Khizar M, Haroon U, Kamal A, Inam W, Chaudhary HJ, Munis MFH (2021) Evaluation of virulence potential of *Aspergillus tubingensis* and subsequent biochemical and enzymatic defense response of cotton. *Microscopy Research and Technique*, 84(11), 2694–2701., @2021 [Линк](#)
535. Kim T-L, Chung H, Veerappan K, Lee WY, Park D, Lim H (2021) Physiological and Transcriptome Responses to Elevated CO<sub>2</sub> Concentration in *Populus*. *Forests*, 12(8):980., @2021 [Линк](#)
536. Kim T-L, K Lee, W Cho, D Park, IH Lee, H Lim (2021) Genetic Diversity and Physiological Response to Drought Stress of *Chamaecyparis obtuse* from Six Geographical Locations. *Plant Breed. Biotech*, 9:112-123., @2021 [Линк](#)

537. Kirova E, Pecheva D, Simova-Stoilova L (2021) Drought response in winter wheat: protection from oxidative stress and mutagenesis effect. *Acta Physiol Plant* 43, 8., @2021 [Линк](#)
538. Kittipornkul P, P Thiravetyan, A De Carlo, K Burkey, E Paoletti (2021) Different Capability of Native and Non-native Plant Growth-Promoting Bacteria to Improve Snap Bean Tolerance to Ozone. *Water Air Soil Pollut* 232, 307., @2021 [Линк](#)
539. Kittipornkul P, S Krobthong, Y Yingchutrakul, P Thiravetyan (2021) Mechanisms of ozone responses in sensitive and tolerant mungbean cultivars. *Science of The Total Environment*, 800, 149550., @2021 [Линк](#)
540. Koltun A, MB Fuhrmann-Aoyagi, LAC Moraes, AL Nepomuceno, LSA Gonçalves, LM Mertz-Henning (2021) Uncovering the roles of hemoglobins in soybean facing water stress. *Gene*, 146055., @2021 [Линк](#)
541. Krishna R, WA Ansari, DK Jaiswal, AK Singh, R Prasad, JP Verma, M Singh (2021) Overexpression of AtDREB1 and BcZAT12 genes confers drought tolerance by reducing oxidative stress in double transgenic tomato (*Solanum lycopersicum* L.). *Plant Cell Rep* 40, 2173–2190., @2021 [Линк](#)
542. Kumar A, D Prajapati, KA Devi, A Pal, U Choudhary, A Dashora, J Choudhary, Harish, A Joshi, V Saharan (2021) Slow-release Zn application through Zn-chitosan nanoparticles in wheat to intensify source activity and sink strength. *Plant Physiology and Biochemistry*, 168, 272-281., @2021 [Линк](#)
543. Kumar D, CS Seth (2021) Photosynthesis, lipid peroxidation, and antioxidative responses of *Helianthus annuus* L. against chromium (VI) accumulation. *International Journal of Phytoremediation*, <https://doi.org/10.1080/15226514.2021.1958747>, @2021 [Линк](#)
544. Lacerda MP, RC Umburanas, KV Martins, MAT Rodrigues, K Reichardt, D Dourado-Neto (2021) Vigor and oxidation reactions in soybean seedlings submitted to different seed chemical treatments. *J. Seed Sci.*, 43, 2021., @2021 [Линк](#)
545. Lanza MGDB, VM Silva, GS Montanha, J Lavres, HWP Carvalho, AR Reis (2021) Assessment of selenium spatial distribution using  $\mu$ -XFR in cowpea (*Vigna unguiculata* (L.) Walp.) plants: Integration of physiological and biochemical responses. *Ecotoxicology and Environmental Safety*, 207, 111216., @2021 [Линк](#)
546. Li J, H Zhang, J Zhu, Y Shen, N Zeng, S Liu, H Wang, J Wang, X Zhan (2021) Role of miR164 in the growth of wheat new adventitious roots exposed to phenanthrene. *Environmental Pollution*, 284, 117204., @2021 [Линк](#)
547. Lima LL, G Frosi, R Lopes, MG Santos (2020) Remobilization of leaf Na<sup>+</sup> content and use of nonstructural carbohydrates vary depending on the time when salt stress begins in woody species. *Plant Physiology and Biochemistry*, 158, 385-395., @2021 [Линк](#)
548. Liu Y, Q Du, L Bai, M Sun, Y Li, C He, J Wang, X Yu, Y Yan (2021) Interference of CsGPA1, the  $\alpha$ -submit of G protein, reduces drought tolerance in cucumber seedlings. *Horticultural Plant Journal*, 7(3), 209-220. <https://doi.org/10.1016/j.hpj.2021.02.003>, @2021 [Линк](#)
549. Liu Y, S Schallhart, T Tykkä, M Räsänen, L Merbold, H Hellén, P Pellikka (2020) Biogenic volatile organic compounds in different ecosystems in Southern Kenya. *Atmospheric Environment*, 246, 118064., @2021 [Линк](#)
550. Lourkisti R, Froelicher Y, Herbette S, Morillon R, Giannettini J, Berti L, Santini J (2021) Triploidy in Citrus Genotypes Improves Leaf Gas Exchange and Antioxidant Recovery From Water Deficit. *Frontiers in Plant Science*, 11, 2311., @2021 [Линк](#)
551. Mahawar L, R Popek, GS Shekhawat, MN Alyemini, P Ahmad (2021) Exogenous hemin improves Cd<sup>2+</sup> tolerance and remediation potential in *Vigna radiata* by intensifying the HO-1 mediated antioxidant defence system. *Sci Rep* 11, 2811., @2021 [Линк](#)
552. Manafi H, Nazari F (2021) The effect of storage temperature on biochemical changes in autumn daffodil bulbs (*Sternbergia lutea* (L.) Ker Gawl. ex Spreng.) and its impact on interactions with photoperiod and morphological indices. *Acta Physiol Plant*, 43, 11., @2021 [Линк](#)

553. Mansouri S, H Sarikhani, M Sayyari, MS Aghdam (2021) Melatonin accelerates strawberry fruit ripening by triggering GAMYB gene expression and promoting ABA accumulation. *Scientia Horticulturae*, 281, 109919., @2021 [Линк](#)
554. Martins V, C Soares, S Spormann, F Fidalgo, H Gerós (2021) Vineyard calcium sprays reduce the damage of postharvest grape berries by stimulating enzymatic antioxidant activity and pathogen defense genes, despite inhibiting phenolic synthesis. *Plant Physiology and Biochemistry*, 162, 48-55., @2021 [Линк](#)
555. Masoumi Z, Haghighi M, Jalali SAH (2021) Flooding or drought which one is more offensive on pepper physiology and growth?. *Mol Biol Rep*, 48, 4233–4245., @2021 [Линк](#)
556. Mateus NS, AL Florentino, JB Oliveira, EF Santos, SA Gaziola, ML Rossi, FS Linhares, JA Bendassolli, RA Azevedo, J Lavres (2021) Leaf 13C and 15N composition shedding light on easing drought stress through partial K substitution by Na in eucalyptus species. *Scientific Reports*, 11, 20158., @2021 [Линк](#)
557. Mishra MK, Tiwari S, Misra P (2021) Overexpression of WssgtL3.1 gene from *Withania somnifera* confers salt stress tolerance in *Arabidopsis*. *Plant Cell Rep*, 40, 2191–2204., @2021 [Линк](#)
558. Mishra P, A Singh, AK Verma, SK Mishra, R Singh, S Roy (2021) MicroRNA775 Targets a Probable  $\beta$ -(1, 3)-Galactosyltransferase to Regulate Growth and Development in *Arabidopsis thaliana*. *J Plant Growth Regul*, <https://doi.org/10.1007/s00344-021-10511-2>, @2021 [Линк](#)
559. Misra S, M Ganesan (2021) The impact of inducible promoters in transgenic plant production and crop improvement. *Plant Gene*, 27, 100300., @2021 [Линк](#)
560. Mohamed E, N Ansari, DS Yadav, M Agrawal, SB Agrawal (2021) Salinity alleviates the toxicity level of ozone in a halophyte *Mesembryanthemum crystallinum* L. *Ecotoxicology* 30, 689–704., @2021 [Линк](#)
561. Moin S, MW Abbasi, N Ahmed, A Rauf, M Azeem, Mtariq, MJZakia (2021) Short term exposure with ultraviolet radiations: A strategy to improve resistance against root-infecting fungi in *Luffa cylindrica* (L.) Roem. *Acta Ecologica Sinica*, 41(2), 157-163., @2021 [Линк](#)
562. Molina R, G López, A Coniglio, A Furlan, V Mora, S Rosas, F Cassán (2021) Day and blue light modify growth, cell physiology and indole-3-acetic acid production of *Azospirillum brasilense* Az39 under planktonic growth conditions. *Journal of Applied Microbiology*, 130(5), 1671-1683., @2021 [Линк](#)
563. Moretti LG, CAC Crusciol, JW Bossolani, JC Calonego, A Moreira, A Garcia, L Momesso, EE Kuramae, M Hungria (2021) Beneficial microbial species and metabolites alleviate soybean oxidative damage and increase grain yield during short dry spells. *European Journal of Agronomy*, 127, 126293., @2021 [Линк](#)
564. Mourzina YG, Ermolenko YE, Offenhäusser A (2021) Synthesizing Electrodes Into Electrochemical Sensor Systems. *Frontiers in Chemistry*, 9, 129., @2021 [Линк](#)
565. Nalina M, S Saroja, M Chakravarthi, R Rajkumar, B Radhakrishnan, KN Chandrashekara (2021) Water deficit-induced oxidative stress and differential response in antioxidant enzymes of tolerant and susceptible tea cultivars under field condition. *Acta Physiol Plant* 43, 10., @2021 [Линк](#)
566. Nam H-I, Z Shahzad, Y Dorone, S Clowez, K Zhao, N Bouain, KS Lay-Pruitt, H Cho, SY Rhee, H Rouached (2021) Interdependent iron and phosphorus availability controls photosynthesis through retrograde signaling. *Nature Communications*, 12, 7211., @2021 [Линк](#)
567. Naqve M, M Shahbaz, M Naseer, A Mahmood (2021) Alpha Tocopherol Application as Seed Priming Alters Antioxidative Defense System of Okra Against Salinity Stress. *Pol. J. Environ. Stud.*, 30(5), 1-10. DOI: 10.15244/pjoes/131154, @2021
568. Naqve M, Wang X, Shahbaz M, Fiaz S, Naqvi W, Naseer M, Mahmood A, Ali H (2021) Foliar Spray of Alpha-Tocopherol Modulates Antioxidant Potential of Okra Fruit under Salt Stress. *Plants*, 10(7):1382., @2021 [Линк](#)
569. Nasirzadeh L, Sorkhilaleloo B, Majidi Hervan E, Fatehi F (2020) Changes in antioxidant enzyme activities and gene expression profiles under drought stress in tolerant, intermediate, and susceptible wheat genotypes. *Cereal Research Communications*, 49, 83-89., @2021 [Линк](#)

570. Niu T, T Zhang, Y Qiao, P Wen, G Zhai, E Liu, DA Al-Bakre, MS Al-Harbi, X Gao, X Yang (2021) Glycinebetaine mitigates drought stress-induced oxidative damage in pears. *PLoS ONE* 16(11): e0251389., @2021 [Линк](#)
571. Noureldeen A, Asif M, Ansari T, Khan F, Shariq M, Ahmad F, Mfarrej MFB, Khan A, Tariq M, Siddiqui MA, Al-Barty A, Darwish H (2021) Effect of Individual, Simultaneous and Sequential Inoculation of *Pseudomonas fluorescens* and *Meloidogyne incognita* on Growth, Biochemical, Enzymatic and Nonenzymatic Antioxidants of Tomato (*Solanum lycopersicum* L.). *Plants*, 10(6):1145., @2021 [Линк](#)
572. Oliveira-Pinto PR, Mariz-Ponte N, Sousa RMOF, Torres A, Tavares F, Ribeiro A, Cavaco-Paulo A, Fernandes-Ferreira M, Santos C (2021) Satureja montana Essential Oil, Zein Nanoparticles and Their Combination as a Biocontrol Strategy to Reduce Bacterial Spot Disease on Tomato Plants. *Horticulturae*, 7(12), 584. <https://doi.org/10.3390/horticulturae7120584>, @2021 [Линк](#)
573. Pagassini JAV, LJG de Godoy, FG Campos, GR Barzotto, MAR Vieira, CSF Boaro (2021) Silicon and mechanical damage increase polyphenols and vitexin in *Passiflora incarnata* L. *Sci Rep* 11, 22064., @2021 [Линк](#)
574. Pahlavan Yali M, Hajmalek M (2021) Interactions Between *Brassica napus* and *Pseudomonas putida* (Strain ATCC12633) and Characterization of Volatile Organic Compounds Produced by the Bacterium. *Curr Microbiol* 78, 679–687. <https://doi.org/10.1007/s00284-020-02335-2>, @2021 [Линк](#)
575. Panda D, JR Barik, J Barik, PK Behera, D Dash (2021) Suitability of Brahmi (*Bacopa monnieri* L.) cultivation on fly ash-amended soil for better growth and oil content, *International Journal of Phytoremediation*, 23:1, 72-79., @2021 [Линк](#)
576. Pandey A, D Jaiswal, SB Agrawal (2021) Ultraviolet-B mediated biochemical and metabolic responses of a medicinal plant *Adhatoda vasica* Nees. at different growth stages. *Journal of Photochemistry and Photobiology B: Biology*, 216, 112142., @2021 [Линк](#)
577. Pandey V, DC Tiwari, V Dhyani, ID Bhatt, RS Rawal, SK Nandi (2021) Physiological and metabolic changes in two Himalayan medicinal herbs under drought, heat and combined stresses. *Physiol Mol Biol Plants* 27, 1523–1538 (2021)., @2021 [Линк](#)
578. Panjekobi M, Einali A (2021) Trehalose treatment alters carbon partitioning and reduces the accumulation of individual metabolites but does not affect salt tolerance in the green microalga *Dunaliella bardawil*. *Physiol Mol Biol Plants* 27, 2333–2344., @2021 [Линк](#)
579. Park J-C, Sp N, Kim HD, Kang DY, Kim IH, Bae SW, Yang Y, Jang K-J (2021) The Exogenous Application of Non-Toxic Sulfur Contributes to the Growth-Promoting Effects of Leaf Lettuce (*Lactuca sativa* L. var. *crispa*). *Agriculture*, 11(8):769., @2021 [Линк](#)
580. Peralta JM, Bianucci E, Romero-Puertas MC, Furlan A, Castro S, Travaglia C (2021) Targeting redox metabolism of the maize-*Azospirillum brasilense* interaction exposed to arsenic-affected groundwater. *Physiologia Plantarum*, 173( 3), 1189–1206., @2021 [Линк](#)
581. Pignattelli S, A Broccoli, M Piccardo, A Terlizzi, M Renzi (2021) Effects of polyethylene terephthalate (PET) microplastics and acid rain on physiology and growth of *Lepidium sativum*. *Environmental Pollution*, 282, 116997., @2021 [Линк](#)
582. Pignattelli S, A Broccoli, M Piccardo, S Felling, A Terlizzi, M Renzi (2021) Short-term physiological and biometrical responses of *Lepidium sativum* seedlings exposed to PET-made microplastics and acid rain. *Ecotoxicology and Environmental Safety*, 208, 11718., @2021 [Линк](#)
583. Pinto M, Soares C, Martins M, Sousa B, Valente I, Pereira R, Fidalgo F (2021) Herbicidal Effects and Cellular Targets of Aqueous Extracts from Young *Eucalyptus globulus* Labill. Leaves. *Plants*, 10(6):1159. <https://doi.org/10.3390/plants10061159>, @2021 [Линк](#)
584. Poli Y, V Nallamotheu, A Hao, MD Goud, X Wang, S Desiraju, SK Mangrauthia, A Jain (2021) NH787 EMS mutant of rice variety Nagina22 exhibits higher phosphate use efficiency. *Sci Rep* 11, 9156., @2021 [Линк](#)

585. Prado C, S Chocobar-Ponce, E Pagano, F Prado, M Rosa (2020) Differential effects of Zn concentrations on Cr(VI) uptake by two *Salvinia* species: involvement of thiol compounds. *International Journal of Phytoremediation*, 23, 10-17., @2021 [Линк](#)
586. Prazeres CS, Coelho CMM, Souza CA (2021) Biochemical compounds and enzymatic systems related to tolerance to water deficit of maize seedlings. *Plant Physiol. Rep.* 26, 402–411., @2021 [Линк](#)
587. Prity SA, AM El-Shehawi, MM Elseehy, S Tahura, AH Kabir (2021) Early-stage iron deficiency alters physiological processes and iron transporter expression, along with photosynthetic and oxidative damage to sorghum. *Saudi Journal of Biological Sciences*, 28(8), 4770-4777., @2021 [Линк](#)
588. Rabêlo FHS, Gaziola SA, Rossi ML, Silveira NM, Wójcik M, Bajguz A, Piotrowska-Niczyporuk A, Lavres J, Linhares FS, Azevedo RA, Vangronsveld J, Alleoni LRF (2020), Unraveling the mechanisms controlling Cd accumulation and Cd-tolerance in *Brachiaria decumbens* and *Panicum maximum* under summer and winter weather conditions. *Physiol Plantarum*, 173(1), 20-44., @2021 [Линк](#)
589. Raghurami Reddy M, SK Mangrauthia, S Venkata Reddy, P Manimaran, P Yugandhar, PN Babu, T Vishnukiran, D Subrahmanyam, RM Sundaram, SM Balachandran (2021) PAP90, a novel rice protein plays a critical role in regulation of D1 protein stability of PSII. *Journal of Advanced Research*, 30, 197-211., @2021 [Линк](#)
590. Rahimi E, F Nazari, T Javadi, S Samadi, JAT da Silva (2021) Potassium-enriched clinoptilolite zeolite mitigates the adverse impacts of salinity stress in perennial ryegrass (*Lolium perenne* L.) by increasing silicon absorption and improving the K/Na ratio. *Journal of Environmental Management*. 285, 112142., @2021 [Линк](#)
591. Rahman A Md, Md B Ahmed, F Alotaibi, KD Alotaibi, N Ziadi, K-W Lee, AH Kabir (2021) Growth and physiological impairments in Fe-starved alfalfa are associated with the downregulation of Fe and S transporters along with redox imbalance. *Chem. Biol. Technol. Agric.* 8, 36 (2021)., @2021 [Линк](#)
592. Rai K, Agrawal SB (2021) An assessment of dose-dependent UV-B sensitivity in *Eclipta alba*: Biochemical traits, antioxidative properties, and wedelolactone yield. *Environ Sci Pollut Res* 28, 45434–45449., @2021 [Линк](#)
593. Rao V, V Virupapuram (2021) Arabidopsis F-box protein At1g08710 interacts with transcriptional protein ADA2b and imparts drought stress tolerance by negatively regulating seedling growth. *Biochemical and Biophysical Research Communications*, 536, 45-51., @2021 [Линк](#)
594. Rathore V, Tiwari BS, Nema SK (2021) Treatment of Pea Seeds with Plasma Activated Water to Enhance Germination, Plant Growth, and Plant Composition. *Plasma Chem Plasma Process*, <https://doi.org/10.1007/s11090-021-10211-5>, @2021 [Линк](#)
595. Rodrigues VA, Crusciol CAC, Bossolani JW, Moretti LG, Portugal JR, Mundt TT, de Oliveira SL, Garcia A, Calonego JC, Lollato RP (2021) Magnesium Foliar Supplementation Increases Grain Yield of Soybean and Maize by Improving Photosynthetic Carbon Metabolism and Antioxidant Metabolism. *Plants*, ; 10(4):797., @2021 [Линк](#)
596. Rodrigues VA, Crusciol CAC, Bossolani JW, Portugal JR, Moretti LG, Bernart L, Vilela RG, Galeriani T, Lollato RP (2021) Foliar nitrogen as stimulant fertilization alters carbon metabolism, reactive oxygen species scavenging, and enhances grain yield in a soybean–maize rotation. *Crop Science*, 61: 3687–3701., @2021 [Линк](#)
597. Romero-Galindo R, Hernandez-Aguilar C, Dominguez-Pacheco A, Godina-Nava JJ, Ivanov Tsonchev R (2021) Biophysical methods used to generate tolerance to drought stress in seeds and plants: a review. *Int. Agrophys.*, 35(4):389-410. doi:10.31545/intagr/144951, @2021
598. Roviada AFDS, Costa G, Santos MI, Silva CR, Freitas PNN, Oliveira EP, Pileggi SAV, Olchanheski RL, Pileggi M (2021) Herbicides Tolerance in a *Pseudomonas* Strain Is Associated With Metabolic Plasticity of Antioxidative Enzymes Regardless of Selection. *Front Microbiol*, 12:673211. doi:10.3389/fmicb.2021.673211, @2021
599. Roychoudhury A, Chakraborty S (2021) Effect of Hydrogen Sulfide on Osmotic Adjustment of Plants Under Different Abiotic Stresses. In: Khan M.N., Siddiqui M.H., Alamri S., Corpas F.J. (eds) *Hydrogen*



Sulfide and Plant Acclimation to Abiotic Stresses. *Plant in Challenging Environments*, vol 1. Springer, Cham., @2021 [Линк](#)

600. Saed-Moucheshi A, F Sohrabi, E Fasihfar, F Baniasadi, M Riasat, AA Mozafari (2021) Superoxide dismutase (SOD) as a selection criterion for triticale grain yield under drought stress: a comprehensive study on genomics and expression profiling, bioinformatics, heritability, and phenotypic variability. *BMC Plant Biol* 21, 148., @2021 [Линк](#)
601. Salahvarzi M, Nasr Esfahani M, Shirzadi N, Burritt DJ, Tran LSP (2021) Genotype- and tissue-specific physiological and biochemical changes of two chickpea (*Cicer arietinum*) varieties following a rapid dehydration. *Physiologia Plantarum*, 172: 1822– 1834., @2021 [Линк](#)
602. Sanches AG, VMD Pedrosa, MV Checchio, TFS Fernandes, JEM Guevara, PL Gratão, GHA Teixeira (2021) Polyols can alleviate chilling injury in ‘Palmer’ mangoes during cold storage. *Food Control*, 129, 108248., @2021 [Линк](#)
603. Santos EF, P Pongrac, AR Reis, FHS Rabêlo, RA Azevedo, PJ White, J Lavres (2021) Unravelling homeostasis effects of phosphorus and zinc nutrition by leaf photochemistry and metabolic adjustment in cotton plants. *Sci Rep* 11, 13746., @2021 [Линк](#)
604. Santosh Kumar VV, SK Yadav, RK Verma, S Shrivastava, O Ghimire, S Pushkar, MV Rao, TS Kumar, V Chinnusamy (2021) The abscisic acid receptor OsPYL6 confers drought tolerance to indica rice through dehydration avoidance and tolerance mechanisms, *Journal of Experimental Botany*, 72(4), 1411–1431., @2021 [Линк](#)
605. Sedaghat M, Emam Y, Mokhtassi-Bidgoli A, Hazrati S, Lovisolo C, Visentin I, Cardinale F, Tahmasebi-Sarvestani Z (2021) The Potential of the Synthetic Strigolactone Analogue GR24 for the Maintenance of Photosynthesis and Yield in Winter Wheat under Drought: Investigations on the Mechanisms of Action and Delivery Modes. *Plants*, 10(6):1223., @2021 [Линк](#)
606. Shah M, Jan H, Drouet S, Tungmunnithum D, Shirazi JH, Hano C, Abbasi BH (2021) Chitosan Elicitation Impacts Flavonolignan Biosynthesis in *Silybum marianum* (L.) Gaertn Cell Suspension and Enhances Antioxidant and Anti-Inflammatory Activities of Cell Extracts. *Molecules*, 26(4):791., @2021 [Линк](#)
607. Sharma S, R Deswal (2021) *Dioscorea Alata* Tuber Proteome Analysis Uncovers Differentially Regulated Growth-associated Pathways of Tuber Development. *Plant and Cell Physiology*, 62(1), 191–204., @2021 [Линк](#)
608. Sheikhalipour M, Esmailpour B, Gohari G, Haghighi M, Jafari H, Farhadi H, Kulak M, Kalisz A (2021) Salt Stress Mitigation via the Foliar Application of Chitosan-Functionalized Selenium and Anatase Titanium Dioxide Nanoparticles in *Stevia* (*Stevia rebaudiana* Bertoni). *Molecules*, 26(13):4090., @2021 [Линк](#)
609. Shekhawat GS, Mahawar L, Rajput P, Rajput VD, Minkina T, Singh RK (2021) Role of Engineered Carbon Nanoparticles (CNPs) in Promoting Growth and Metabolism of *Vigna radiata* (L.) Wilczek: Insights into the Biochemical and Physiological Responses. *Plants*. 2021; 10(7):1317., @2021 [Линк](#)
610. Silva JB, R Mori, LH Marques, AC Santos, T Nowatzki, ML Dahmer, J Bing, PL Gratão, GD Rossi (2021) Water Deprivation Induces Biochemical Changes Without Reduction in the Insecticidal Activity of Maize and Soybean Transgenic Plants. *Journal of Economic Entomology*, 114(4), 1817–1822., @2021 [Линк](#)
611. Silveira NM, PJC Prativiera, JC Pieretti, AB Seabra, RL Almeida, EC Machado, RV Ribeiro (2021) Chitosan-encapsulated nitric oxide donors enhance physiological recovery of sugarcane plants after water deficit. *Environmental and Experimental Botany*, 190, 104593., @2021 [Линк](#)
612. Silveira NM, RV Ribeiro, SFN de Moraes, SCR de Souza, SF da Silva, AB Seabra, JT Hancock, EC Machado (2021) Leaf arginine spraying improves leaf gas exchange under water deficit and root antioxidant responses during the recovery period. *Plant Physiology and Biochemistry*, 162, 315–326., @2021 [Линк](#)
613. Sivaramakrishnan R, A Incharoensakdi (2021) Overexpression of fatty acid synthesis genes in *Synechocystis* sp. PCC 6803 with disrupted glycogen synthesis increases lipid production with further enhancement under copper induced oxidative stress. *Chemosphere*, 132755., @2021 [Линк](#)

614. Soares C, Nadais P, Sousa B, Pinto E, Ferreira IMPLVO, Pereira R, Fidalgo F (2021) Silicon Improves the Redox Homeostasis to Alleviate Glyphosate Toxicity in Tomato Plants - Are Nanomaterials Relevant? Antioxidants, 10(8):1320., @2021 [Линк](#)
615. Soares C, Rodrigues F, Sousa B, Pinto E, Ferreira IMPLVO, Pereira R, Fidalgo F (2021) Foliar Application of Sodium Nitroprusside Boosts Solanum lycopersicum L. Tolerance to Glyphosate by Preventing Redox Disorders and Stimulating Herbicide Detoxification Pathways. Plants, 10(9):1862., @2021 [Линк](#)
616. Sohan Md SR, M Hasan, Md F Hossain, SA Sajib, Md MMiah, Md A Iqbal, S Karmakar, Md J Alam, K Md Khalid-Bin-Ferdous, AH Kabir, Md M Rashid, MR Talukder, Md A Reza (2021) Improvement of Seed Germination Rate, Agronomic Traits, Enzymatic Activity and Nutritional Composition of Bread Wheat (Triticum aestivum) Using Low-Frequency Glow Discharge Plasma. Plasma Chem Plasma Process 41, 923–944., @2021 [Линк](#)
617. Solis CA, M-T Yong, G Venkataraman, P Milham, M Zhou, L Shabala, P Holford, S Shabala, Z-H Chen (2021) Sodium sequestration confers salinity tolerance in an ancestral wild rice. Physiologia Plantarum, 172: 1594–1608., @2021 [Линк](#)
618. Taghavi T, Patel H, Rafie R (2021) Comparing pH differential and methanol-based methods for anthocyanin assessments of strawberries. Food Sci Nutr, 00: 1– 9., @2021 [Линк](#)
619. Tahura S, AH Kabir (2021) Physiological responses and genome-wide characterization of TaNRAMP1 gene in Mn-deficient wheat. Plant Physiology and Biochemistry, 162, 280-290., @2021 [Линк](#)
620. Teixeira GCM, R de Mello Prado, AMS Rocha, G da Silveira Sousa Junior, PL Gratão (2021) Beneficial Effect of Silicon Applied Through Fertigation Attenuates Damage Caused by Water Deficit in Sugarcane. J Plant Growth Regul, <https://doi.org/10.1007/s00344-021-10510-3>, @2021 [Линк](#)
621. Teixeira WF, LH Soares, K Reichardt, DD Neto (2021) Application of glycine on soybean plants submitted to water deficit. Australian Journal of Crop Science, 15(10):1263-1268., @2021
622. Thuc L, Sakagami J, Hung L, Huu T, Khuong N, Vu Vi L (2021) Foliar selenium application for improving drought tolerance of sesame (Sesamum indicum L.). Open Agriculture, 6(1), 93-101. <https://doi.org/10.1515/opag-2021-0222>, @2021 [Линк](#)
623. Thuc L, Sakagami J, Hung L, Huu T, Khuong N, Vu Vi L (2021) Foliar selenium application for improving drought tolerance of sesame (Sesamum indicum L.). Open Agriculture, 6(1), 93-101. <https://doi.org/10.1515/opag-2021-0222>, @2021 [Линк](#)
624. Tiwari A, S Punetha, K Kesarvani (2021) Drought stress and its impact on plant mechanism. International Journal of Plant Sciences, 16, 95-112. DOI: 10.15740/HAS/IJPS/16.AAEBSSD/95-112, @2021
625. Ullah G, G Ayub (2021) Dissecting the heat stress responses and effects on morphology of tomato varieties employing pre-transplanthigh temperature conditioning. Sarhad Journal of Agriculture, 37(4): 1384-1402., @2021 [Линк](#)
626. Vaculík M, J Kováč, I Fialová, R Fiala, K Jašková, M Luxová (2021) Multiple effects of silicon on alleviation of nickel toxicity in young maize roots. Journal of Hazardous Materials, 415, 125570., @2021 [Линк](#)
627. Vasilakoglou I, Dhima K, Giannakoula A, Dordas C, Skiada V, Papadopoulou K (2021) Carbon Assimilation, Isotope Discrimination, Proline and Lipid Peroxidation Contribution to Barley (Hordeum vulgare) Salinity Tolerance. Plants, 10(2):299., @2021 [Линк](#)
628. Wang L, Y Hou, Y Wang, S Hu, Y Zheng, P Jin (2021) Genome-wide identification of heat shock transcription factors and potential role in regulation of antioxidant response under hot water and glycine betaine treatments in cold-stored peaches. Journal of the Science of food and Agriculture, <https://doi.org/10.1002/jsfa.11392>, @2021 [Линк](#)
629. Wang T, D Zhang, L Chen, J Wang, W-H Zhang (2021) Genome-wide analysis of the Glutathione S-Transferase family in wild Medicago ruthenica and drought-tolerant breeding application of MruGSTU39 gene in cultivated alfalfa. Theor Appl Genet, <https://doi.org/10.1007/s00122-021-04002-x>, @2021 [Линк](#)

630. Wang T, L Ren, C Li, D Zhang, X Zhang, G Zhou, D Gao, R Chen, Y Chen, Z Wang, F Shi, AD Farmer, Y Li, M Zhou, ND Young, W-H Zhang (2021) The genome of a wild Medicago species provides insights into the tolerant mechanisms of legume forage to environmental stress. *BMC Biol* 19, 96., @2021 [Линк](#)
631. Wang X, B Chen, C Ma, K Qiao, Z Li, J Wang, R Peng, S Fan, Q Ma (2021) Systematical characterization of YUCCA gene family in five cotton species, and potential functions of YUCCA22 gene in drought resistance of cotton. *Industrial Crops and Products*, 162, 113290., @2021 [Линк](#)
632. Wang Z, Li Y, Hu L, Ye Y, Chen J, Li J, Pei B, Wang G, Chen S, Cheng Y, Huang G, Chen X, Wang F (2021) The cotton GhMYB4 gene enhances salt and drought tolerance in transgenic Arabidopsis. *Agronomy Journal*. 2021; 1– 15., @2021 [Линк](#)
633. William BJ, CCA Costa, G Ariani, ML Gustavo, PJ Roberto, RV Alves, FM de Cássia da, CJ Carlos, CE Fávero, ATJ Carneiro, RA Rodrigues dos (2021) Long-Term Lime and Phosphogypsum Amended-Soils Alleviates the Field Drought Effects on Carbon and Antioxidative Metabolism of Maize by Improving Soil Fertility and Root Growth. *Frontiers in Plant Science*, 12, 1437., @2021 [Линк](#)
634. Xiang X-Y, Chen J, Xu W-X, Qiu J-R, Song L, Wang J-T, Tang R, Chen D, Jiang C-Z, Huang Z (2021) Dehydration-Induced WRKY Transcriptional Factor MfWRKY70 of *Myrothamnus flabellifolia* Enhanced Drought and Salinity Tolerance in Arabidopsis. *Biomolecules*, 11(2):327., @2021 [Линк](#)
635. Xu J, TA Volk, LJ Quackenbush, SV Stehman (2021) Estimation of shrub willow leaf chlorophyll concentration across different growth stages using a hand-held chlorophyll meter to monitor plant health and production. *Biomass and Bioenergy*, 150, 106132., @2021 [Линк](#)
636. Yang F, H Zhang, Y Wang, G He, J Wang, D Guo, T Li, G Sun, H Zhang (2021) The role of antioxidant mechanism in photosynthesis under heavy metals Cd or Zn exposure in tobacco leaves, *Journal of Plant Interactions*, 16:1, 354-366., @2021
637. Zahedi SM, Hosseini MS, Fahadi Hoveizeh N, Gholami R, Abdelrahman M, Tran L-SP (2021) Exogenous melatonin mitigates salinity-induced damage in olive seedlings by modulating ion homeostasis, antioxidant defense, and phytohormone balance. *Physiologia Plantarum*, 173( 4), 1682–1694., @2021 [Линк](#)
638. Zanganeh R, Jamei R, Rahmani F (2020) Response of maize plant to sodium hydrosulfide pretreatment under lead stress conditions at early stages of growth. *Cereal Research Communications*, 49, 267-276., @2021 [Линк](#)
639. Zangani E, S Zehtab-Salmasi, B Andalibi, AA Zamani, M Hashemi (2021) Exogenous nitric oxide improved production and content of flavonolignans in milk thistle seeds under water deficit system. *Acta Physiologiae Plantarum*, 43, 87., @2021 [Линк](#)
640. Zhang H, Zheng D, Yin L, Song F, Jiang M (2021) Functional Analysis of OsMED16 and OsMED25 in Response to Biotic and Abiotic Stresses in Rice. *Frontiers in Plant Science*, 12, 515., @2021 [Линк](#)
641. Zhang P, Yang X, Chen Y, Wei Z, Liu F (2021) Dissecting the combined effects of air temperature and relative humidity on water use efficiency of barley under drought stress. *J Agro Crop Sci*, 207: 606–617., @2021 [Линк](#)
642. Zhang X, X Zhang, T Wang, C Li (2021) Metabolic response of soybean leaves induced by short-term exposure of ozone. *Ecotoxicology and Environmental Safety*, 213, 112033., @2021 [Линк](#)
643. Zhu H, He M, Jahan MS, Wu J, Gu Q, Shu S, Sun J, Guo S (2021) CsCDPK6, a CsSAMS1-Interacting Protein, Affects Polyamine/Ethylene Biosynthesis in Cucumber and Enhances Salt Tolerance by Overexpression in Tobacco. *International Journal of Molecular Sciences*, 22(20):11133., @2021 [Линк](#)
644. Zia A, Hegazy HS, Hassan NS, Naguib DM, Abdel-Haliem MEF (2021) Biochemical responses of wheat to silicon application under salinity. *J. Plant Nutr. Soil Sci.*, 184: 255-262., @2021 [Линк](#)
645. Abati J, C Zucareli, CR Brzezinski, LAC Moraes, ION Lopes, LM Mertz-Henning, FC Krzyzanowski, FA Henning (2022) Physiological potential and antioxidant metabolism during storage of soybean seeds contrasting with phenylpropanoid pathway compounds. *Bragantia*, 81, e3022. <https://doi.org/10.1590/1678-4499.20210134>, @2022 [Линк](#)

646. Abdalla H, Adarosy MH, Hegazy HS, Abdelhameed RE (2022) Potential of green synthesized titanium dioxide nanoparticles for enhancing seedling emergence, vigor and tolerance indices and DPPH free radical scavenging in two varieties of soybean under salinity stress. *BMC Plant Biol*, 22, 560. <https://doi.org/10.1186/s12870-022-03945-7>, @2022 [Линк](#)
647. Adamipour N, M Khosh-Khui, H Salehi (2022) Comparison of selected biochemical characteristics of damask rose and dog rose under deficit irrigation conditions. *Italus Hortus*, 29, 138-155. <https://doi.org/10.26353/j.itahort/2022.1.138155>, @2022 [Линк](#)
648. Ahmad N, Khan P, Khan A, Usman M, Ali M, Fazal H, Durrishahwar, Uddin MN, Hano C, Abbasi BH (2022) Elicitation of Submerged Adventitious Root Cultures of *Stevia rebaudiana* with *Cuscuta reflexa* for Production of Biomass and Secondary Metabolites. *Molecules*, 27, 14. <https://doi.org/10.3390/molecules27010014>, @2022 [Линк](#)
649. Ahmadi H, Abbasi A, Taleei A, Mohammadi V, Pueyo JJ (2022) Antioxidant Response and Calcium-Dependent Protein Kinases Involvement in Canola (*Brassica napus* L.) Tolerance to Drought. *Agronomy*, 12(1):125. <https://doi.org/10.3390/agronomy12010125>, @2022 [Линк](#)
650. Akpınar A, A Cansev (2022) Physiological and molecular responses of roots differ from those of leaves in spinach plants subjected to short-term drought stress. *South African Journal of Botany*, 151(Part A), 9-17. <https://doi.org/10.1016/j.sajb.2022.09.032>, @2022 [Линк](#)
651. Aksoy O, Aydin D, Yuksel B (2022) The healing effect of liquid vermicompost against Kathon CG application in *Pisum sativum* spp. arvense. *Acta Physiol Plant* 44(5). <https://doi.org/10.1007/s11738-021-03340-z>, @2022 [Линк](#)
652. Al-Faris M, S Abu-Romman and N Odat (2022) Cloning, sequence analysis and expression profile of a chloroplastic copper/zinc superoxide dismutase gene from lentil. *Intl J Agric Biol* 28:197–204. DOI: 10.17957/IJAB/15.1966, @2022 [Линк](#)
653. Alvarenga JP, RR Silva, OGG Salgado, PCS Júnior, JPS Pavan, RG Ávila, KC Camargo, V Ferraz, MG Cardoso, AA Alvarenga (2022) Variations in essential oil production and antioxidant system of *Ocimum gratissimum* after elicitation. *Journal of Applied Research on Medicinal and Aromatic Plants*, 26, 100354. <https://doi.org/10.1016/j.jarmap.2021.100354>, @2022 [Линк](#)
654. Alves RC, KR Oliveira, JCB Lúcio, JS Silva, WC Carrega, SF Queiroz, PL Gratão (2022) Exogenous foliar ascorbic acid applications enhance salt-stress tolerance in peanut plants through increase in the activity of major antioxidant enzymes. *South African Journal of Botany*, 150, 759-767. <https://doi.org/10.1016/j.sajb.2022.08.007>, @2022 [Линк](#)
655. Alves RC, MFS Zucco, KR Oliveira, MV Checchio, CA Franco, K Körösi, PL Gratão (2022) Seed Priming with Silicon Improves Plant Resistance to Downy Mildew (*Bremia lactucae*) in Lettuce Seedlings by Intensifying Antioxidant Defense Systems. *Silicon*. <https://doi.org/10.1007/s12633-022-01974-3>, @2022 [Линк](#)
656. Babaei M, Shabani L, Hashemi-Shahraki S (2022) Improving the effects of salt stress by  $\beta$ -carotene and gallic acid using increasing antioxidant activity and regulating ion uptake in *Lepidium sativum* L. *Bot Stud*. 63, 22. <https://doi.org/10.1186/s40529-022-00352-x>, @2022 [Линк](#)
657. Barros F, de Camargo R, Lana RM, Franco MH, Stanger MC, Pereira VJ, Lemes E (2022) *Azospirillum brasilense* and organomineral fertilizer co-inoculated with *Bradyrhizobium japonicum* oxidative stress in soybean. *International journal of recycling organic waste in agriculture*, 11(2), 229-245. <https://doi.org/10.30486/ijrowa.2021.1909458.1134>, @2022 [Линк](#)
658. Bashyal BM, S Pandey, AR Singh, Prashantha ST, Gopalakrishnan S, D Singh, D Kamil, R Aggarwal (2022) Utilization of fungal biocontrol agents against rice sheath blight disease provides insight into their role in plant defense responses. *Indian Journal of Biochemistry & Biophysics*, 59, 1069-1080. DOI: 10.56042/ijbb.v59i11.66903, @2022 [Линк](#)
659. Begum N, Hasanuzzaman M, Li Y, Akhtar K, Zhang C, Zhao T (2022) Seed Germination Behavior, Growth, Physiology and Antioxidant Metabolism of Four Contrasting Cultivars under Combined Drought and Salinity in Soybean. *Antioxidants*, 11(3):498. <https://doi.org/10.3390/antiox11030498>, @2022 [Линк](#)

660. Behera TK, Krishna R, Ansari WA, Aamir M, Kumar P, Kashyap SP, Pandey S, Kole C (2022) Approaches Involved in the Vegetable Crops Salt Stress Tolerance Improvement: Present Status and Way Ahead. *Frontiers in Plant Science*, 12, <https://www.frontiersin.org/articles/10.3389/fpls.2021.787292>, @2022 [Линк](#)
661. Biba R, Cvjetko P, Tkalec M, Košpić K, Štefanić PP, Šikić S, Domijan A-M, Balen B (2022) Effects of Silver Nanoparticles on Physiological and Proteomic Responses of Tobacco (*Nicotiana tabacum*) Seedlings Are Coating-Dependent. *International Journal of Molecular Sciences*, 23(24):15923. <https://doi.org/10.3390/ijms232415923>, @2022 [Линк](#)
662. Bonacina C, RMS da Cruz, AB Nascimento, LN Barbosa, JE Gonçalves, ZC Gazim, HM Magalhães, SGH de Souza (2022) Salinity modulates growth, oxidative metabolism, and essential oil profile in *Curcuma longa* L. (Zingiberaceae) rhizomes. *South African Journal of Botany*, 146, 1-11. <https://doi.org/10.1016/j.sajb.2021.09.023>, @2022 [Линк](#)
663. Bossolani JW, CAC Crusciol, LG Moretti, A Garcia, JR Portugal, L Bernart, RG Vilela, EF Caires, TJC Amado, JC Calonego, AR dos Reis (2022) Improving soil fertility with lime and phosphogypsum enhances soybean yield and physiological characteristics. *Agron. Sustain. Dev.*, 42, 26. <https://doi.org/10.1007/s13593-022-00765-9>, @2022 [Линк](#)
664. Bouzidi A, Chaieb M, Ellouzi H, krouma A (2022) Physiological Studies on *Sulla carnosa* Growth, Ionic Compartmentation and Oxidative Stress under Salt Stress. *Russ J Plant Physiol* 69, 34. <https://doi.org/10.1134/S1021443722020030>, @2022 [Линк](#)
665. Brito A, M Rocha, J Kaštovský, J Vieira, CP Vieira, V Ramos, M Correia, M Santos, R Mota, J Roque, J Pissarra, P Melo, P Tamagnini (2022) A new cyanobacterial species with a protective effect on lettuce grown under salinity stress: Envisaging sustainable agriculture practices. *J Appl Phycol*, 34, 915–928. <https://doi.org/10.1007/s10811-022-02692-4>, @2022 [Линк](#)
666. Cahyo AN, Murti RH, Putra ETS, Oktavia F, Ismawanto S, Montoro P (2022) Rubber Genotypes with Contrasting Drought Factor Index Revealed Different Mechanisms for Drought Resistance in *Hevea brasiliensis*. *Plants*, 11(24):3563. <https://doi.org/10.3390/plants11243563>, @2022 [Линк](#)
667. Campos FG, Barzotto GR, Pagassini JAV, Sousa MC, Ferreira G, Boaro CSF (2022) Calcium in Photosynthetic Restoration and Growth of *Annona emarginata* after Mechanical Damage. *Horticulturae*, 8(6):495. <https://doi.org/10.3390/horticulturae8060495>, @2022 [Линк](#)
668. Campos FG, Seixas DP, Barzotto GR, Jorge LG, Ducatti KR, Ferreira G, Rodrigues TM, Silva EAA, Boaro CSF (2022) Roles of Calcium Signaling in Gene Expression and Photosynthetic Acclimatization of *Solanum lycopersicum* Micro-Tom (MT) after Mechanical Damage. *International Journal of Molecular Sciences*, 23(21):13571. <https://doi.org/10.3390/ijms232113571>, @2022 [Линк](#)
669. Chow YN, KY Foo (2022) Integrated assessment of phytotoxicity, stress responses, and bioaccumulative mechanisms of the arsenic-contaminated agricultural runoff using a soilless cultivation system. *Process Safety and Environmental Protection*, 159, 266-280. <https://doi.org/10.1016/j.psep.2021.12.057>, @2022 [Линк](#)
670. Chowardhara B, B Saha, P Borgohain, JP Awasthi, S Kityania, SK Panda (2022) Effect of ethanol, putrescine and acetic acid on cadmium accumulation and toxicity in Indian mustard. *South African Journal of Botany*, 147, 42-52. <https://doi.org/10.1016/j.sajb.2021.12.019>, @2022 [Линк](#)
671. Concato AC, Sutorillo NT, Tamagno WA, de Paula MO, Dada RA, Piccini GB, Vanin AP, Alves C, Gomes JD, Menegat AD, Aspiazu I, Galon L, Kaizer RR (2022) Effect of herbicides on the activity of antioxidant enzymes and ALA-D in transgenic hybrid corn. *Australian Journal of Crop Science*, 16(1), 45–53. <https://search.informit.org/doi/10.3316/informit.643111335413091>, @2022 [Линк](#)
672. Costa LMS, J Vilasboa, AG Fett-Neto, NF Rodrigues, F Bered, R Margis (2022) Responses to submergence and recovery in seedlings of the rheophyte *Dyckia brevifolia* (Bromeliaceae). *Environmental and Experimental Botany*, 201, 104984. <https://doi.org/10.1016/j.envexpbot.2022.104984>, @2022 [Линк](#)
673. Cunha MLO, LCA de Oliveira, VM Silva, GS Montanha, AR dos Reis (2022) Selenium increases photosynthetic capacity, daidzein biosynthesis, nodulation and yield of peanuts plants (*Arachis*

- hypogaea L.). *Plant Physiology and Biochemistry*, 190, 231-239. <https://doi.org/10.1016/j.plaphy.2022.08.006>, @2022 [Линк](#)
674. da Cruz MP, RB Felipini, MM Cardozo, SM Mazaro, RM Di Piero (2022) Ganoderma lucidum mycelial growth filtrate and the mycelial extract increase defense responses against Septoria leaf spot in tomato. *Biological Control*, 173, 105002. <https://doi.org/10.1016/j.biocontrol.2022.105002>, @2022 [Линк](#)
675. de Moraes CC, NM Silveira, GS Mattar, FC Sala, EV Mellis, LFV Purquerio (2022) Agronomic biofortification of lettuce with zinc under tropical conditions: Zinc content, biomass production and oxidative stress. *Scientia Horticulturae*, 303, 111218. <https://doi.org/10.1016/j.scienta.2022.111218>, @2022 [Линк](#)
676. De Oliveira GMP, De Aguiar E Silva MA, Dalazen G (2022) Growth inhibition of sourgrass as a function of period of darkness after diquat application. *Bioscience Journal*. 2022, 38, e38087. <https://doi.org/10.14393/BJ-v38n0a2022-62470>, @2022 [Линк](#)
677. de Souza Júnior JP, RM Prado, CNS Campos, GS Sousa Junior, KR Oliveira, JO Cazetta, PL Gratão (2022) Addition of silicon to boron foliar spray in cotton plants modulates the antioxidative system attenuating boron deficiency and toxicity. *BMC Plant Biol* 22, 338. <https://doi.org/10.1186/s12870-022-03721-7>, @2022 [Линк](#)
678. Docema ML, Moraes TS, Atílio LB, Marques JPR, Stipp LCL, Harakava R, Freitas-Astúa J, Belasque Junior J, Azevedo RA, Gaziola SA, Filho FAAM (2022) Transgenic 'Hamlin' sweet orange expressing csd1 or d4e1 genes exhibits decreased susceptibility to citrus canker disease. *Plant Cell Tiss Organ Cult*, <https://doi.org/10.1007/s11240-022-02420-3>, @2022 [Линк](#)
679. Dong Q, Liu HP, Kurtenbach R (2022) Polyamines in plasma membrane function in melatonin-mediated tolerance of apricot fruit to chilling stress. *Czech J. Food Sci.*, 40: 313–322. <https://doi.org/10.17221/74/2022-CJFS>, @2022 [Линк](#)
680. Dong QY, Lai Y, Hua CM, Liu HP, Kurtenbach R (2022) Polyamines Conjugated to Plasma Membrane Were Involved in Melatonin-mediated Resistance of Apple (*Malus pumila* Mill.) Fruit to Chilling Stress. *Russ J Plant Physiol* 69, 67 (2022). <https://doi.org/10.1134/S1021443722040033>, @2022 [Линк](#)
681. dos Santos JCC, DMR Silva, DJ Amorim, V do Rosário Rosa, ALF dos Santos, ED Velini, CA Carbonari, M de Almeida Silva (2022) Glyphosate hormesis attenuates water deficit stress in safflower (*Carthamus tinctorius* L.) by modulating physiological and biochemical mediators. *Science of The Total Environment*, 810, 152204. <https://doi.org/10.1016/j.scitotenv.2021.152204>, @2022 [Линк](#)
682. Du H, Chen B, Li Q, Liu H, Kurtenbach R (2022) Conjugated Polyamines in Root Plasma Membrane Enhanced the Tolerance of Plum Seedling to Osmotic Stress by Stabilizing Membrane Structure and Therefore Elevating H<sup>+</sup>-ATPase Activity. *Frontiers in Plant Science*, 12, <https://www.frontiersin.org/articles/10.3389/fpls.2021.812360>, @2022 [Линк](#)
683. Du H, D Liu, G Liu, H Liu, H Sun, C Li, R Kurtenbach (2022) Conjugated polyamines are involved in conformation stability of plasma membrane from maturing maize grain embryos under drought stress. *Environmental and Experimental Botany*, 194, 104726. <https://doi.org/10.1016/j.envexpbot.2021.104726>, @2022 [Линк](#)
684. Du H, Q Dong, H Liu, W Wang, R Kurtenbach (2022) Polyamines conjugated to plasma membrane functioned in enhancing the tolerance of cucumber seedlings to osmotic stress via elevating H<sup>+</sup>-ATPase activity. *Plant Physiology and Biochemistry*, 170, 64-74. <https://doi.org/10.1016/j.plaphy.2021.11.040>, @2022 [Линк](#)
685. El-Shehawi AM, MJB Arshi, MM Elseehy, AH Kabir (2022) Sugarcane bagasse acts as a metal absorber in the rhizosphere in mitigating arsenic toxicity in wheat. *Rend. Fis. Acc. Lincei* 33, 603–612. <https://doi.org/10.1007/s12210-022-01074-9>, @2022 [Линк](#)
686. ElSayed AI, AH Mohamed, MS Rafudeen, AA Omar, MF Awad, E Mansour (2022) Polyamines mitigate the destructive impacts of salinity stress by enhancing photosynthetic capacity, antioxidant defense system and upregulation of calvin cycle-related genes in rapeseed (*Brassica napus* L.). *Saudi Journal of Biological Sciences*, 29(5), 3675-3686. <https://doi.org/10.1016/j.sjbs.2022.02.053>, @2022 [Линк](#)

687. ElSayed AI, MS Rafudeen, SA Ganie, MS Hossain, AM Gomaa (2022) Seed priming with cypress leaf extract enhances photosynthesis and antioxidative defense in zucchini seedlings under salt stress. *Scientia Horticulturae*, 293, 110707. <https://doi.org/10.1016/j.scienta.2021.110707>, @2022 [Линк](#)
688. Esmaili S, V Tavallali, B Amiri, F Bazrafshan, S Sharafzadeh (2022) Foliar Application of Nano-Silicon Complexes on Growth, Oxidative Damage and Bioactive Compounds of Feverfew Under Drought Stress. *Silicon*, 14, 10245–10256. <https://doi.org/10.1007/s12633-022-01754-z>, @2022 [Линк](#)
689. Ezzouine N, REK Billah, A Soufiane, S Esserti, M Belfaiza, LA Rifai, K Makroum, T Koussa, L Faize, N Albuquerque, L Burgos, JS Venisse, M Faize (2022) Protection of *Solanum lycopersicum* induced by chitosan and chitosan nano-hydroxyapatite against Pepino mosaic virus and *Verticillium dahliae*. *Biocatalysis and Agricultural Biotechnology*, 43, 102386. <https://doi.org/10.1016/j.bcab.2022.102386>, @2022 [Линк](#)
690. Filho JR, VB Corte, ITAL Perin, JFN De Freitas, RH Waichert, CR Dos Santos (2022) Effects of Iron on oxidative stress of *Cecropia hololeuca* and *Carica papaya* plants. *Annals of the Brazilian Academy of Sciences*, 4(Suppl. 3): e20211098. DOI: 10.1590/0001-376520220211098, @2022 [Линк](#)
691. Florentino AL, AV Ferraz, MEA Carvalho, NS Mateus, LS Masullo, RCR Monteleone, SA Gaziola, RA Azevedo, J Lavres, JLM Gonçalves (2022) Wood production and nutritional and antioxidant status of field-grown *Eucalyptus* under a differential supply of lime and copper plus zinc. *Industrial Crops and Products*, 175, 114192. <https://doi.org/10.1016/j.indcrop.2021.114192>, @2022 [Линк](#)
692. Fonteles T, Leite AK, Miguel T, Fernandes F, Pinheiro S, Miguel E, Rodrigues S (2022) Optimization of Sonication Parameters to Produce a Cashew Apple Bagasse Puree Rich in Superoxide Dismutase. *Foods*, 11(17):2694. <https://doi.org/10.3390/foods11172694>, @2022 [Линк](#)
693. Freitas IS, Trennepohl BI, Acioly TMS, Conceição VJ, Mello SC, Dourado Neto D, Kluge RA, Azevedo RA (2022) Exogenous Application of L-Arginine Improves Protein Content and Increases Yield of *Pereskia aculeata* Mill. Grown in Soilless Media Container. *Horticulturae*, 8(2):142. <https://doi.org/10.3390/horticulturae8020142>, @2022 [Линк](#)
694. Fu F, R Wang, M Zhao, Z Wu, W Sun (2022) The mechanism underlying the response of *Agarophyton vermiculophyllum* to desiccation–rehydration stress. *Aquatic Botany*, 184, 103599. <https://doi.org/10.1016/j.aquabot.2022.103599>, @2022 [Линк](#)
695. Gomes DG, Debiasi TV, Pelegrino MT, Pereira RM, Ondrasek G, Batista BL, Seabra AB, Oliveira HC (2022) Soil Treatment with Nitric Oxide-Releasing Chitosan Nanoparticles Protects the Root System and Promotes the Growth of Soybean Plants under Copper Stress. *Plants*, 11(23):3245. <https://doi.org/10.3390/plants11233245>, @2022 [Линк](#)
696. Guilger-Casagrande M, N Bilesky-José, BT Sousa, HC Oliveira, LF Fraceto, R Lima (2022) Effects of biogenic silver and iron nanoparticles on soybean seedlings (*Glycine max*). *BMC Plant Biol*, 22, 255. <https://doi.org/10.1186/s12870-022-03638-1>, @2022 [Линк](#)
697. Gupta A, Agrawal SB, Agrawal M (2022) Evaluation of Toxicity of Tropospheric Ozone on Tomato (*Solanum lycopersicum* L.) Cultivars: ROS Production, Defense Strategies and Intraspecific Sensitivity. *J Plant Growth Regul*. <https://doi.org/10.1007/s00344-022-10870-4>, @2022 [Линк](#)
698. Gupta S, S Misra, M Kumar, SK Mishra, S Tiwari, S Narayan, Anshu, L Agrawal, PS Chauhan (2022) Enhancement of Drought Tolerance in Transgenic *Arabidopsis thaliana* Plants Overexpressing Chickpea Ca14-3-3 Gene. *J Plant Growth Regul*. <https://doi.org/10.1007/s00344-022-10639-9>, @2022 [Линк](#)
699. Hammok NS, Kamal BE (2022) Effect of ultraviolet rays (UV-C) on growth and seeds properties of two squash cultivars (*Cucurbita pepo* L.). *Int. J. Agricult. Stat. Sci.*, 18(2), 745-754., @2022 [Линк](#)
700. Hasan M, SR Sohan, SA Sajib, F Hossain, M Miah, MH Maruf, K Khalid-Bin-Ferdous, AH Kabir, MR Talukder, M Rashid, Moinuddin, MM Elseehy, AM El-Shehawi, A Reza (2022) The Effect of Low-Pressure Dielectric Barrier Discharge (LPDBD) Plasma in Boosting Germination, Growth, and Nutritional Properties in Wheat. *Plasma Chem Plasma Process*, 42, 339–362. <https://doi.org/10.1007/s11090-021-10217-z>, @2022 [Линк](#)
701. Hassanpouraghdam MB, Vojodi Mehrabani L, Bonabian Z, Aazami MA, Rasouli F, Feldo M, Strzemski M, Dresler S (2022) Foliar Application of Cerium Oxide-Salicylic Acid Nanoparticles (CeO<sub>2</sub>:SA Nanoparticles)

- Influences the Growth and Physiological Responses of *Portulaca oleracea* L. under Salinity. *International Journal of Molecular Sciences*, 23(9):5093. <https://doi.org/10.3390/ijms23095093>, @2022 [Линк](#)
- 702.** Hazra A, Varshney V, Verma P, Kamble NU, Ghosh S, Achary RK, Gautam S, Majee M (2022) Methionine sulfoxide reductase B5 plays a key role in preserving seed vigor and longevity in rice (*Oryza sativa*). *New Phytol*, 236: 1042-1060. <https://doi.org/10.1111/nph.18412>, @2022 [Линк](#)
- 703.** Holub P, Klem K, Veselá B, Surá K, Urban O (2022) Interactive effects of UV radiation and water deficit on production characteristics in upland grassland and their estimation by proximity sensing. *Ecology and Evolution*, 12, e9330. <https://doi.org/10.1002/ece3.9330>, @2022 [Линк](#)
- 704.** Imane K, Siham E, Kacem M, Malika B, Tayeb K, Aicha RL, Lydia F, Stéphane VJ, Fouad B, Amal S, Mohamed F (2022) Protective effect of symmetrical N-heterocyclic 1, 3, 4-oxadiazole and 1, 3, 4-thiadiazole derivatives against Pepino mosaic virus of tomato. *Journal of Phytopathology*, 170, 557–573. <https://doi.org/10.1111/jph.13105>, @2022 [Линк](#)
- 705.** Isah T, Qurratul, Umar S (2022) Influence of silver nitrate and copper sulfate on somatic embryogenesis, shoot morphogenesis, multiplication, and associated physiological biochemical changes in *Gladiolus hybridus* L. *Plant Cell Tiss Organ Cult*, 149, 563–587. <https://doi.org/10.1007/s11240-022-02309-1>, @2022 [Линк](#)
- 706.** Islam R, L Biswas, SM Nasim, A Islam, A Haque, AKMN Huda (2022) Physiological responses of chickpea (*Cicer arietinum*) against chromium toxicity. *Rhizosphere*, 24, 100600. <https://doi.org/10.1016/j.rhisph.2022.100600>, @2022 [Линк](#)
- 707.** Jacomassi LM, Viveiros JO, Oliveira MP, Momesso L, de Siqueira GF, Crusciol CAC. (2022) A Seaweed Extract-Based Biostimulant Mitigates Drought Stress in Sugarcane. *Front Plant Sci*. 2022 Apr 28;13:865291. <https://doi.org/10.3389/fpls.2022.865291>, @2022 [Линк](#)
- 708.** Jafari M, Shahsavari AR, Talebi M, Hesami M (2022) Exogenous Melatonin Protects Lime Plants from Drought Stress-Induced Damage by Maintaining Cell Membrane Structure, Detoxifying ROS and Regulating Antioxidant Systems. *Horticulturae*, 8(3):257. <https://doi.org/10.3390/horticulturae8030257>, @2022 [Линк](#)
- 709.** Jahani M, Khavari-Nejad RA, Mahmoodzadeh H, Saadatmand S (2022) Investigation of seed germination, early growth and physio-biochemical parameters of canola seedling exposed to Co3O4 engineered nanoparticles. *Journal of Chemical Health Risks*, 12(2), 237-246. DOI: 10.22034/jchr.2020.1891185.1092, @2022 [Линк](#)
- 710.** Jaiswal D, Agrawal M, Agrawal SB (2022) Dose differentiation in elevated UV-B manifests variable response of carbon–nitrogen content with changes in secondary metabolites of *Curcuma caesia* Roxb. *Environ Sci Pollut Res* 29, 72871–72885. <https://doi.org/10.1007/s11356-022-20936-1>, @2022 [Линк](#)
- 711.** Jaiswal D, Pandey A, Agrawal M, Agrawal SB (2022) Photosynthetic, Biochemical and Secondary Metabolite Changes in a Medicinal Plant *Chlorophytum borivillanum* (Safed musli) against Low and High Doses of UV-B Radiation. *Photochem Photobiol*. <https://doi.org/10.1111/php.13672>, @2022 [Линк](#)
- 712.** Jan R, Khan M-A, Asaf S, Lubna, Waqas M, Park J-R, Asif S, Kim N, Lee I-J, Kim K-M (2022) Drought and UV Radiation Stress Tolerance in Rice Is Improved by Overaccumulation of Non-Enzymatic Antioxidant Flavonoids. *Antioxidants*, 11(5):917. <https://doi.org/10.3390/antiox11050917>, @2022 [Линк](#)
- 713.** Janket J, A Pengnoo, P Kongsawadworakul, U Viboonjun (2022) Proteomic analysis of rubber trees uncovers a systemic response to white root rot disease. *Plant Omics Journal*, 15(1), 37-47. doi: 10.21475/POJ.15.01.22.p3756, @2022 [Линк](#)
- 714.** Jansen MAK, Ač A, Klem K, Urban O (2022) A meta-analysis of the interactive effects of UV and drought on plants. *Plant, Cell & Environment*, 45, 41– 54. <https://doi.org/10.1111/pce.14221>, @2022 [Линк](#)
- 715.** Kamble NU, BP Petla, S Ghosh, RK Achary, M Majee (2022) *Oryza coarctata* PROTEIN L-ISOASPARTYL METHYLTRANSFERASE (PIMT) repairs isoaspartyl modification to antioxidative enzymes and is implicated in seed traits in rice. *Environmental and Experimental Botany*, 202, 105027. <https://doi.org/10.1016/j.envexpbot.2022.105027>, @2022 [Линк](#)



- 716.** Karimaei M, V Poozesh, A Rezaei (2022) Evaluation of Aluminum toxicity and phosphorus treatment on the physiological and biochemical traits of spinach (*Spinacia oleracea* L). *Scientia Horticulturae*, 298, 110981. <https://doi.org/10.1016/j.scienta.2022.110981>, @2022 [Линк](#)
- 717.** Karwa S, Taunk J, Maurya S, Das A, Krishna GK, Arya SS, Kumar A, Kumar S, Kumar P, Chinnusamy V, Pal M (2022) Spermidine exogenous application mollifies reproductive stage heat stress ramifications in rice. *Frontiers in Plant Science*, 13, <https://doi.org/10.3389/fpls.2022.1027662>, @2022 [Линк](#)
- 718.** Kaur A, SK Grewal, S Kaur, A Sharma, P Srivastava, M Garg, SH Wani, P Chhuneja, K Singh, S Kaur (2022) Juvenile heat stress tolerance in *Triticum durum*—*Aegilops tauschii* derived synthetics: a way forward for wheat improvement. *Mol Biol Rep* 49, 5669–5683. <https://doi.org/10.1007/s11033-022-07595-8>, @2022 [Линк](#)
- 719.** Khatami SA, Barmaki M, Alebrahim MT, Bajwa AA (2022) Salicylic Acid Pre-Treatment Reduces the Physiological Damage Caused by the Herbicide Mesosulfuron-methyl + Iodosulfuron-methyl in Wheat (*Triticum aestivum*). *Agronomy*, 12(12):3053. <https://doi.org/10.3390/agronomy12123053>, @2022 [Линк](#)
- 720.** Kijowska-Oberc J, MK Wawrzyniak, AM Staszak, E Ratajczak (2022) Exogenous seed treatment with proline and its consequences to Norway spruce (*Picea abies* (L.) H. Karst) seedling establishment. *Dendrobiology*, 87, 149–162. <https://doi.org/10.12657/denbio.087.011>, @2022 [Линк](#)
- 721.** Kim T-L, Lim H, Chung H, Veerappan K, Oh C (2022) Elevated CO<sub>2</sub> Alters the Physiological and Transcriptome Responses of *Pinus densiflora* to Long-Term CO<sub>2</sub> Exposure. *Plants*, 11(24):3530. <https://doi.org/10.3390/plants11243530>, @2022 [Линк](#)
- 722.** Kim TL, Lee K, Hwang HS, Oh C, Lee IH, Lim H (2022) Comparison of Physiological and Biochemical Responses of Two Poplar Species under Drought Stress. *Plant breeding and biotechnology*, 10(3), 145-162., @2022 [Линк](#)
- 723.** Kobori MMRG, S da Costa Mello, IS de Freitas, FF Silveira, MC Alves, RA Azevedo (2022) Supplemental light with different blue and red ratios in the physiology, yield and quality of *Impatiens*. *Scientia Horticulturae*, 306, 111424. <https://doi.org/10.1016/j.scienta.2022.111424>, @2022 [Линк](#)
- 724.** Kukavica B, B Davidović-Plavšić, A Savić, D Dmitrović, G Šukalo, S Đurić-Savić, G Vučić (2022) Oxidative Stress and Neurotoxicity of Cadmium and Zinc on *Artemia franciscana*. *Biol Trace Elem Res*. <https://doi.org/10.1007/s12011-022-03352-x>, @2022 [Линк](#)
- 725.** Kumari A, Kaur R. (2022) Uptake of a plasticizer (di-n-butyl phthalate) impacts the biochemical and physiological responses of barley. *PeerJ* 10:e12859 <https://doi.org/10.7717/peerj.12859>, @2022 [Линк](#)
- 726.** Lee J., Hanh Nguyen H., Park Y., Lin J., Hwang I. (2022) Spatial regulation of RBOHD via AtECA4-mediated recycling and clathrin-mediated endocytosis contributes to ROS accumulation during salt stress response but not flg22-induced immune response. *Plant J*, 109: 816-830. <https://doi.org/10.1111/tbj.15593>, @2022 [Линк](#)
- 727.** Li Y, Tian B, Wang Y, Wang J, Zhang H, Wang L, Sun G, Yu Y, Zhang H (2022) The Transcription Factor MYB37 Positively Regulates Photosynthetic Inhibition and Oxidative Damage in *Arabidopsis* Leaves Under Salt Stress. *Front Plant Sci.*, 13, 943153. <https://doi.org/10.3389/fpls.2022.943153>, @2022 [Линк](#)
- 728.** Liao R (2022) Effects of abscisic acid on growth and selenium uptake in medicinal plant *Perilla frutescens*. *PLoS ONE* 17(10): e0275813. <https://doi.org/10.1371/journal.pone.0275813>, @2022 [Линк](#)
- 729.** Lima RPM, AV Nunes-Laitz, MLC Arcuri, FG Campos, TAC Joca, GC Monteiro, H Kushima, GPP Lima, LFR de Almeida, P Barreto, IG Maia (2022) The double knockdown of the mitochondrial uncoupling protein isoforms reveals partial redundant roles during *Arabidopsis thaliana* vegetative and reproductive development. *Plant Science*, 322, 111365. <https://doi.org/10.1016/j.plantsci.2022.111365>, @2022 [Линк](#)
- 730.** Lin X.-Y., Zhang N.-N., Yao B.-H., Zhang X., Liu W.-Y., Zhang W.-Q., Zhang J.-H., Wei G.-H., Chen J. (2022) Interactions between hydrogen sulphide and rhizobia modulate the physiological and metabolism

- process during water deficiency-induced oxidative defense in soybean. *Plant, Cell & Environment*, 45, 3249– 3274. <https://doi.org/10.1111/pce.14431>, @2022 [Линк](#)
- 731.** Ma C, Yuan S, Xie B, Li Q, Wang Q, Shao M (2022) IAA Plays an Important Role in Alkaline Stress Tolerance by Modulating Root Development and ROS Detoxifying Systems in Rice Plants. *International Journal of Molecular Sciences*, 23(23):14817. <https://doi.org/10.3390/ijms232314817>, @2022 [Линк](#)
- 732.** Ma S, X Zhou, MS Jahan, S Guo, M Tian, R Zhou, H Liu, B Feng, S Shu (2022) Putrescine regulates stomatal opening of cucumber leaves under salt stress via the H<sub>2</sub>O<sub>2</sub>-mediated signaling pathway. *Plant Physiology and Biochemistry*, 170, 87-97. <https://doi.org/10.1016/j.plaphy.2021.11.028>, @2022 [Линк](#)
- 733.** Mahawar L, Shekhawat GS (2022) Understanding the Physiological Mechanism of Heme Oxygenase for Enhanced Tolerance and Phytoremediation of Cd<sup>2+</sup> in *Eruca sativa*: Co-ordinated Function of Antioxidant Defense System. *J Plant Growth Regul.* <https://doi.org/10.1007/s00344-022-10825-9>, @2022 [Линк](#)
- 734.** Mahmoudi R, F Razavi, V Rabiei, G Gohari, L Palou (2022) Application of Glycine betaine coated chitosan nanoparticles alleviate chilling injury and maintain quality of plum (*Prunus domestica* L.) fruit. *International Journal of Biological Macromolecules*, 207, 965-977. <https://doi.org/10.1016/j.ijbiomac.2022.03.167>, @2022 [Линк](#)
- 735.** Mahmoudi R, Razavi F, Rabiei V, Palou L, Gohari G (2022) Postharvest chitosan-arginine nanoparticles application ameliorates chilling injury in plum fruit during cold storage by enhancing ROS scavenging system activity. *BMC Plant Biol*, 22, 555. <https://doi.org/10.1186/s12870-022-03952-8>, @2022 [Линк](#)
- 736.** Malik Z, N Malik, I Noor, M Kamran, A Parveen, M Ali, F Sabir, HO Elansary, TKZ El-Abedin, EA Mahmoud, S Fahad (2022) Combined Effect of Rice-Straw Biochar and Humic Acid on Growth, Antioxidative Capacity, and Ion Uptake in Maize (*Zea mays* L.) Grown Under Saline Soil Conditions. *J Plant Growth Regul.* <https://doi.org/10.1007/s00344-022-10786-z>, @2022 [Линк](#)
- 737.** Masoudian Z, SY Salehi-Lisar, A Norastehnia, S Tarigholizadeh (2022) Duckweed Potential for the Phytoremediation of Linear Alkylbenzene Sulfonate (LAS): Identification of Some Intermediate Biodegradation Products and Evaluation of Antioxidant System. *Bull Environ Contam Toxicol* 109, 364– 372. <https://doi.org/10.1007/s00128-022-03549-9>, @2022 [Линк](#)
- 738.** Mei Q, Fu YW, Li TM, Xuan YH (2022) Ac/Ds-Induced Receptor-like Kinase Genes Deletion Provides Broad-Spectrum Resistance to Bacterial Blight in Rice. *International Journal of Molecular Sciences*, 23(9):4561. <https://doi.org/10.3390/ijms23094561>, @2022 [Линк](#)
- 739.** Mishra MK, S Tiwari, M Srivastava, A Awasthi, P Misra (2022) Ectopic Expression of WsSGTL3.1 Gene in *Arabidopsis thaliana* Confers Enhanced Resistance to *Pseudomonas syringae*. *J Plant Growth Regul*, 41, 18-71-1886. <https://doi.org/10.1007/s00344-021-10427-x>, @2022 [Линк](#)
- 740.** Nahar L, Aycan M, Hanamata S, Baslam M, Mitsui T (2022) Impact of Single and Combined Salinity and High-Temperature Stresses on Agro-Physiological, Biochemical, and Transcriptional Responses in Rice and Stress-Release. *Plants*, 11(4):501. <https://doi.org/10.3390/plants11040501>, @2022 [Линк](#)
- 741.** Najafi Vafa Z, Sohrabi Y, Mirzaghaderi G, Heidari G (2022) Soil Microorganisms and Seaweed Application With Supplementary Irrigation Improved Physiological Traits and Yield of Two Dryland Wheat Cultivars. *Front Plant Sci.*, 13:855090. <https://doi.org/10.3389/Ffpls.2022.855090>, @2022 [Линк](#)
- 742.** Nascimento CS, Nascimento CS, Lopes G, Carrasco G, Gratão PL, Cecílio Filho AB (2022) Biofortified Rocket (*Eruca sativa*) with Selenium by Using the Nutrient Film Technique. *Horticulturae*, 8(11):1088. <https://doi.org/10.3390/horticulturae8111088>, @2022 [Линк](#)
- 743.** Nasr F, Razavi F, Rabiei V, Gohari G, Ali S, Hano C (2022) Attenuation of Chilling Injury and Improving Antioxidant Capacity of Persimmon Fruit by Arginine Application. *Foods*, 11(16):2419. <https://doi.org/10.3390/foods11162419>, @2022 [Линк](#)
- 744.** Nawab R, M Ali, U Haroon, A Kamal, M Akbar, F Anwar, J Ahmed, HJ Chaudhary, A Iqbal, M Hashem, S Alamri, HAS ALHaithloul, MFH Munis (2022) *Calotropis procera* (L.) mediated synthesis of AgNPs and their application to control leaf spot of *Hibiscus rosa-sinensis* (L.). *Brazilian Journal of Biology*, 84, e261123. <https://doi.org/10.1590/1519-6984.261123>, @2022 [Линк](#)

745. Nemat Alla M, Hassan N, Budran I, El-Bastawisy Z, El-Harary E (2022) Stigmasterol alleviates the impacts of drought in flax and improves oil yield via modulating efficient antioxidant and ROS homeostasis. *Iranian Journal of Plant Physiology*, 12(1), 3973-3984. <https://doi.org/10.30495/ijpp.2022.689073>, @2022 [Линк](#)
746. Oliveira JAC, LS Ferreira, IP Garcia, HL Santos, GS Ferreira, JPM Rocha, SA Nunes, AA de Carvalho, JEBP Pinto, SKV Bertolucci (2022) *Eugenia uniflora*, *Melaleuca armillaris*, and *Schinus molle* essential oils to manage larvae of the filarial vector *Culex quinquefasciatus* (Diptera: Culicidae). *Environ Sci Pollut Res* 29, 34749–34758. <https://doi.org/10.1007/s11356-021-18024-x>, @2022 [Линк](#)
747. Oliveira KS, RM Prado, MV Checchio, PL Gratão (2022) Interaction of silicon and manganese in nutritional and physiological aspects of energy cane with high fiber content. *BMC Plant Biol*, 22, 374. <https://doi.org/10.1186/s12870-022-03766-8>, @2022 [Линк](#)
748. Oliveira-Pinto PR, Mariz-Ponte N, Gil RL, Cunha E, Amorim CG, Montenegro MCBSM, Fernandes-Ferreira M, Sousa RMOF, Santos C (2022) Montmorillonite Nanoclay and Formulation with *Satureja montana* Essential Oil as a Tool to Alleviate *Xanthomonas euvesicatoria* Load on *Solanum lycopersicum*. *Applied Nano*, 3(3):126-142. <https://doi.org/10.3390/applnano3030009>, @2022 [Линк](#)
749. Oliveira-Pinto PR, N Mariz-Ponte, A Torres, F Tavares, M Fernandes-Ferreira, RM Sousa, C Santos (2022) *Satureja montana* L. essential oil, montmorillonite and nanoformulation reduce *Xanthomonas euvesicatoria* infection, modulating redox and hormonal pathways of tomato plants. *Scientia Horticulturae*, 295, 110861. <https://doi.org/10.1016/j.scienta.2021.110861>, @2022 [Линк](#)
750. Otaiza-González SN, VS Mary, SL Arias, L Bertrand, PA Velez, MG Rodriguez, HR Rubinstein, MG Theumer (2022) Cell death induced by fumonisin B1 in two maize hybrids: correlation with oxidative status biomarkers and salicylic and jasmonic acids imbalances. *Eur J Plant Pathol*, 163, 203–221. <https://doi.org/10.1007/s10658-022-02469-y>, @2022 [Линк](#)
751. Pan T, L Wang, Z Peng, J Tian, K Cai (2022) Silicon enhances the submergence tolerance of rice by regulating quiescence strategy and alleviating oxidative damage, *Plant Physiology and Biochemistry*. 182, 124-132. <https://doi.org/10.1016/j.plaphy.2022.04.018>, @2022 [Линк](#)
752. Pandey A, Agrawal M, Agrawal SB (2022) Individual and combined effects of chromium and ultraviolet-B radiation on defense system, ultrastructural changes, and production of secondary metabolite psoralen in a medicinal plant *Psoralea corylifolia* L. *Environ Sci Pollut Res*. <https://doi.org/10.1007/s11356-022-22480-4>, @2022 [Линк](#)
753. Paul GK, S Mahmud, AK Dutta, S Sarkar, AA Laboni, S Hossain, A Nagata, P Karmaker, MH Razu, T Kazi, S Uddin, S Zaman, S Islam, M Khan, A Saleh (2022) Volatile compounds of *Bacillus pseudomycoloides* induce growth and drought tolerance in wheat (*Triticum aestivum* L.). *Sci Rep*, 12, 19137. <https://doi.org/10.1038/s41598-022-22354-2>, @2022 [Линк](#)
754. Pereira LFM, HL Santos, S Zanetti, IA de Oliveira Brito, LR dos Santos Tozin, TM Rodrigues, M de Almeida Silva (2022) Morphology, biochemistry, and yield of cassava as functions of growth stage and water regime. *South African Journal of Botany*, 149, 222-239. <https://doi.org/10.1016/j.sajb.2022.06.003>, @2022 [Линк](#)
755. Polińska W, A Piotrowska-Niczyporuk, J Karpińska, J Struk-Sokołowska, U Kotowska (2022) Mechanisms, toxicity and optimal conditions - research on the removal of benzotriazoles from water using *Wolffia arrhiza*. *Science of The Total Environment*, 847, 157571. <https://doi.org/10.1016/j.scitotenv.2022.157571>, @2022 [Линк](#)
756. Rafeie M, Shabani L, Sabzalian MR, Gharibi S (2022) Pretreatment with LEDs regulates antioxidant capacity and polyphenolic profile in two genotypes of basil under salinity stress. *Protoplasma*, 259, 1567–1583. <https://doi.org/10.1007/s00709-022-01746-1>, @2022 [Линк](#)
757. Rampazzo MV, MLO Cunha, LCA de Oliveira, VM Silva, MGDB Lanza, AAR de Melo, AR dos Reis (2022) Physiological Roles of Nickel on Antioxidant and Nitrogen Metabolism Increasing the Yield of Sugarcane Plants. *J Soil Sci Plant Nutr* 22, 4438–4448. <https://doi.org/10.1007/s42729-022-01045-x>, @2022 [Линк](#)

758. Rawat L, Bisht TS, Kukreti A (2022) Potential of seed biopriming with *Trichoderma* in ameliorating salinity stress and providing resistance against leaf blast disease in finger millet (*Eleusine coracana* L.). *Indian Phytopathology*, 75, 147-164. <https://doi.org/10.1007/s42360-021-00441-0>, @2022 [Линк](#)
759. Rivas R, Santos MG (2022) The desert plant *Calotropis procera* maintains C3 photosynthetic metabolism under salt stress. *Theor. Exp. Plant Physiol.* <https://doi.org/10.1007/s40626-022-00265-x>, @2022 [Линк](#)
760. Saddique M, Kausar A, Iqra I, Akhter N, Mujahid N, Parveen A, Zaman Q, Hussain S (2022) Amino acids application alleviated salinity stress in spinach (*Spinacia oleracea* L.) by improving oxidative defense, osmolyte accumulation, and nutrient balance. *Turkish Journal of Agriculture and Forestry*, 46(6), 8. <https://doi.org/10.55730/1300-011X.3049>, @2022 [Линк](#)
761. Safari S, Nazari F, Vafae Y, da Silva JT (2022) Impact of Rice Husk Biochar on Drought Stress Tolerance in Perennial Ryegrass (*Lolium perenne* L.). *J Plant Growth Regul.* <https://doi.org/10.1007/s00344-022-10588-3>, @2022 [Линк](#)
762. Salvador HF, HC Mazzottini-dos-Santos, DSouza Dias, AM Azevedo, PSN Lopes, YRF Nunes, LM Ribeiro (2022) The dynamics of *Mauritia flexuosa* (Arecaceae) recalcitrant seed banks reveal control of their persistence in marsh environments. *Forest Ecology and Management*, 511, 120155. <https://doi.org/10.1016/j.foreco.2022.120155>, @2022 [Линк](#)
763. Samtani H, Sharma A, Khurana P (2022) Overexpression of HVA1 Enhances Drought and Heat Stress Tolerance in *Triticum aestivum* Doubled Haploid Plants. *Cells*, 11(5):912. <https://doi.org/10.3390/cells11050912>, @2022 [Линк](#)
764. Sanches AG, da Silva MB, Fernandes TFS, Pedrosa VMD, Wong MCC, Gratão PL, Teixeira GHA (2022) Reducing chilling injury in 'Palmer' mangoes submitted to quarantine cold treatment. *J Sci Food Agric*, 102: 6112-6122. <https://doi.org/10.1002/jsfa.11963>, @2022 [Линк](#)
765. Sanches AG, MB da Silva, MCC Wong, ARG de Oliveira, VMD Pedrosa, TFS Fernandes, PL Gratão, GH de Almeida Teixeira (2022) Sorbitol immersion controls chilling injury in CA stored 'Palmer' mangoes. *Postharvest Biology and Technology*, 185, 111800. <https://doi.org/10.1016/j.postharvbio.2021.111800>, @2022 [Линк](#)
766. Santini R, de Lima JP, Gratão PL, Camargo AFM (2022) Evaluation of growth and oxidative stress as indicative of salinity tolerance by the invasive tropical aquatic macrophyte tanner grass. *Hydrobiologia* 849, 1261–1271. <https://doi.org/10.1007/s10750-021-04787-4>, @2022 [Линк](#)
767. Santos FJQ, RC Alves, ALA Cavalcante, FFM Oliveira, RS Junior, AMP Negreiros, ISA Holanda (2022) Analyzing the role of acibenzolar-s-methyl as a possible inducer of resistance against root rot disease and the decline in melon branches. *Trop. plant pathol.* <https://doi.org/10.1007/s40858-022-00527-8>, @2022 [Линк](#)
768. Schaller J., D Puppe, J Busse, S Paasch, O Katz, E Brunner, D Kaczoreck, M Sommer (2022) Silicification patterns in wheat leaves related to ontogeny and soil silicon availability under field conditions. *Plant Soil* 477, 9–23. <https://doi.org/10.1007/s11104-022-05385-6>, @2022 [Линк](#)
769. Shahzaidi Z, Hesami Tackallou S, Amjad L, Zali H, Iranbakhsh A (2022) The Effect of Ultraviolet (UV) Radiation on Photosynthetic Pigments and Biochemical Parameters of *Portulaca oleracea*. *Journal of Horticultural Science*, 36(1), 319-328. <https://dx.doi.org/10.22067/JHS.2021.71685.1077>, @2022 [Линк](#)
770. Shariatipour N, Heidari B, Shams Z, Richards C (2022) Assessing the potential of native ecotypes of *Poa pratensis* L. for forage yield and phytochemical compositions under water deficit conditions. *Sci Rep*, 12, 1121. <https://doi.org/10.1038/s41598-022-05024-1>, @2022 [Линк](#)
771. Shazadee H, Khan N, Wang L, Wang X (2022) GhHAI2, GhAHG3, and GhABI2 Negatively Regulate Osmotic Stress Tolerance via ABA-Dependent Pathway in Cotton (*Gossypium hirsutum* L.). *Front. Plant Sci.* 13:905181. doi: 10.3389/fpls.2022.905181, @2022 [Линк](#)
772. Shereen A, Asma, MU Shirazi, MA Khan, M Ali, M Arif (2022) Physio-biochemical analysis of salinity tolerance in sodium contrasting rice (*Oryza sativa* L.) genotypes. *Pak. J. Bot.*, 54(3): DOI: [http://dx.doi.org/10.30848/PJB2022-3\(15\)](http://dx.doi.org/10.30848/PJB2022-3(15)), @2022 [Линк](#)

- 773.** Shreya S, Supriya L and Padmaja G (2022) Melatonin induces drought tolerance by modulating lipoxygenase expression, redox homeostasis and photosynthetic efficiency in *Arachis hypogaea* L. *Front. Plant Sci.* 13:1069143. <https://doi.org/10.3389/fpls.2022.1069143>, @2022 [Линк](#)
- 774.** Sichanova M, Geneva M, Petrova M, Miladinova-Georgieva K, Kirova E, Nedev T, Tsekova D, Iwanov I, Dochev K, Ivanova V, Trendafilova A (2022) Improvement of *Stevia rebaudiana* Bertoni In Vitro Propagation and Steviol Glycoside Content Using Aminoacid Silver Nanofibers. *Plants*, 11(19):2468. <https://doi.org/10.3390/plants11192468>, @2022 [Линк](#)
- 775.** Silva DMR, JCC dos Santos, VR Rosa, ALF dos Santos, MA Silva (2022) Tolerance to water deficiency in safflower (*Carthamus tinctorius* L.) modulated by potassium fertilization. *Acta Physiol Plant* 44, 99. <https://doi.org/10.1007/s11738-022-03444-0>, @2022 [Линк](#)
- 776.** Silva PTS, LM de Souza, MB de Morais, MM de Moraes, CAG da Camara, C Ulisses (2022) Effect of biotic elicitors on the physiology, redox system, and secondary metabolite composition of *Lippia alba* cultivated in vitro. *South African Journal of Botany*, 147, 415-424. <https://doi.org/10.1016/j.sajb.2022.01.042>, @2022 [Линк](#)
- 777.** Soboleva A, Frolova N, Bureiko K, Shumilina J, Balcke GU, Zhukov VA, Tikhonovich IA, Frolov A. (2022) Dynamics of Reactive Carbonyl Species in Pea Root Nodules in Response to Polyethylene Glycol (PEG)-Induced Osmotic Stress. *International Journal of Molecular Sciences*, 23(5):2726. <https://doi.org/10.3390/ijms23052726>, @2022 [Линк](#)
- 778.** Sohan SR, M Hasan, F Hossain, SA Sajib, K Khalid-Bin-Ferdaus, AH Kabir, M Rashid, MR Talukder, MM Elseehy, AM El-Shehawi, A Reza (2022) Low-frequency glow discharge (LFGD) plasma treatment enhances maize (*Zea mays* L.) seed germination, agronomic traits, enzymatic activities, and nutritional properties. *Chem. Biol. Technol. Agric.* 9, 18. <https://doi.org/10.1186/s40538-021-00275-y>, @2022 [Линк](#)
- 779.** Soleimani A, Ghanbarnejad S, Dastkar E, Ajani A. The Impact of High Temperature Stress on the Activity of Some Antioxidant Enzymes and the Expression Pattern of Relevant Genes in Two Olive Cultivars. *International Journal of Horticultural Science and Technology*, 2022; 23(3), 463-472., @2022 [Линк](#)
- 780.** Song R, X Zhang, C Feng, S Zhang, L Song, J Qi (2022) Exogenous Hydrogen Promotes Germination and Seedling Establishment of Barley Under Drought Stress by Mediating the ASA-GSH Cycle and Sugar Metabolism. *J Plant Growth Regul.* <https://doi.org/10.1007/s00344-022-10742-x>, @2022 [Линк](#)
- 781.** Souza JN, HC Mazzottini-dos-Santos, DS Dias, PSN Lopes, LM Ribeiro (2022) Seasonality and the control of longevity and dormancy in macaúba palm diaspores. *Industrial Crops and Products*, 177, 114475. <https://doi.org/10.1016/j.indcrop.2021.114475>, @2022 [Линк](#)
- 782.** Spormann S, C Soares, V Martins, M Azenha, H Gerós, F Fidalgo (2022) Early Activation of Antioxidant Responses in Ni-Stressed Tomato Cultivars Determines Their Resilience Under Co-exposure to Drought. *J Plant Growth Regul.* <https://doi.org/10.1007/s00344-022-10595-4>, @2022 [Линк](#)
- 783.** Spormann S, Sousa F, Oliveira F, Ferreira V, Teixeira B, Pereira C, Soares C, Fidalgo F (2022) Ascorbate Supplementation: A Blessing in Disguise for Tomato Seedlings Exposed to NiO Nanoparticles. *Agriculture*, 12(10):1546. <https://doi.org/10.3390/agriculture12101546>, @2022 [Линк](#)
- 784.** Su L, Y Xie, Z He, X Zhou, Y Liu, R Zhang, C Li (2022) Selenium Mitigates Cd-Induced Oxidative Stress and Photosynthesis Inhibition in Two Cherry Tomato Cultivars. *J Soil Sci Plant Nutr* 22, 3212–3227. <https://doi.org/10.1007/s42729-022-00879-9>, @2022 [Линк](#)
- 785.** Suárez-Acevedo S, G Chaves-Bedoya, D Guariz-Pinheiro, A Cristina-Lopes, M Mari-Murata, R Hirochi-Herai, J Aparecido-Ferro, E Rodas-Mendoza (2022) Comparative transcriptional analyzes of *Xanthomonas citri* subsp. *citri* reveal mechanisms of adaptation and bacterial virulence in the early stage of citrus canker disease. *Eur J Plant Pathol* 163, 557–572. <https://doi.org/10.1007/s10658-022-02495-w>, @2022 [Линк](#)
- 786.** Sun Y, Song K, Guo M, Wu H, Ji X, Hou L, Liu X, Lu S (2022) A NAC Transcription Factor from ‘Sea Rice 86’ Enhances Salt Tolerance by Promoting Hydrogen Sulfide Production in Rice Seedlings. *International Journal of Molecular Sciences*, 23(12):6435. <https://doi.org/10.3390/ijms23126435>, @2022 [Линк](#)

- 787.** Szentpéteri V, Mayer Z, Posta K (2022) Mycorrhizal symbiosis-induced abiotic stress mitigation through phosphate transporters in *Solanum lycopersicum* L. *Plant Growth Regul.* <https://doi.org/10.1007/s10725-022-00906-w>, @2022 [Линк](#)
- 788.** Taghavi T, Patel H, Akande OE, Galam DCA (2022) Total Anthocyanin Content of Strawberry and the Profile Changes by Extraction Methods and Sample Processing. *Foods*, 11(8):1072. <https://doi.org/10.3390/foods11081072>, @2022 [Линк](#)
- 789.** Taghavi T, Patel H, Rafie R (2022) Anthocyanin Extraction Method and Sample Preparation Affect Anthocyanin Yield of Strawberries. *Natural Product Communications*, 17(5). <https://doi.org/10.1177/1934578X221099970>, @2022 [Линк](#)
- 790.** Tajaragh RP, Rasouli F, Giglou MT, Zahedi SM, Hasanpouraghdam MB, Aazami MA, Adámková A, Mlček J (2022) Morphological and Physiological Responses of In Vitro-Grown Cucurbita sp. Landraces Seedlings under Osmotic Stress by Mannitol and PEG. *Horticulturae*, 8(12):1117. <https://doi.org/10.3390/horticulturae8121117>, @2022 [Линк](#)
- 791.** Tarumoto MB, de Campos M, Momesso L, do Nascimento CAC, Garcia A, Coscolin RBDS, Martello JM Crusciol CAC (2022) Carbohydrate Partitioning and Antioxidant Substances Synthesis Clarify the Differences Between Sugarcane Varieties on Facing Low Phosphorus Availability. *Frontiers in Plant Science*, 1414. <https://doi.org/10.3389/fpls.2022.888432>, @2022 [Линк](#)
- 792.** Teixeira GCM, RM de Prado, AMS Rocha, ASBO Filho, GS da Sousa Junior, PL Gratão (2022) Action of silicon on the activity of antioxidant enzymes and on physiological mechanisms mitigates water deficit in sugarcane and energy cane plants. *Sci Rep*, 12, 17487. <https://doi.org/10.1038/s41598-022-21680-9>, @2022 [Линк](#)
- 793.** Türkölmez N, M Karakaya, MH Ekinci, SJ Lucas, Ö Akkaya, MG Şeker, C Kayıhan, YÖ Çiftçi (2022) Determination of physiological, biochemical and molecular interactions between Fraser's Photinia (*Photinia × fraseri* Dress.) and its endophytic bacterium *PGB\_invit*. *Plant Cell Tiss Organ Cult*, 151, 631–649. <https://doi.org/10.1007/s11240-022-02377-3>, @2022 [Линк](#)
- 794.** Uarrota VG, Hernández I, Ponce E, Bauer CM, Maraschin M, Pedreschi R (2022) Metabolic profiling and biochemical analysis of stored Hass avocado fruit by GC-MS and UHPLC-UV-VIS revealed oxidative stress as the main driver of 'blackspot' physiological disorder. *Int J Food Sci Technol*, 57: 7896-7916. <https://doi.org/10.1111/ijfs.16145>, @2022 [Линк](#)
- 795.** Veselá B, P Holub, O Urban, K Surá, P Hodaňová, M Oravec, R Divinová, MAK Jansen, K Klem (2022) UV radiation and drought interact differently in grass and forb species of a mountain grassland. *Plant Science*, 325, 111488. <https://doi.org/10.1016/j.plantsci.2022.111488>, @2022 [Линк](#)
- 796.** Wang C, R Wang, C Fu, X Jiang, X Li, G Han, J Zhang (2022) Combining bioactive compounds and antioxidant activity profiling provide insights into assessment of geographical features of Chinese jujube. *Food Bioscience*, 46, 101573. <https://doi.org/10.1016/j.fbio.2022.101573>, @2022 [Линк](#)
- 797.** Wilmowicz E, Kućko A, Burchardt S, Karwaszewski J (2022) Ethylene. A Powerful Coordinator of Drought Responses. In: *Ethylene in Plant Biology* (eds S. Singh, T. Husain, V.P. Singh, D.K. Tripathi, S.M. Prasad and N.K. Dubey). <https://doi.org/10.1002/9781119744719.ch5>, @2022 [Линк](#)
- 798.** Wu J, W Liu, MS Jahan, S Shu, J Sun, S Guo (2022) Characterization of polyamine oxidase genes in cucumber and roles of CsPAO3 in response to salt stress. *Environmental and Experimental Botany*, 194, 104696. <https://doi.org/10.1016/j.envexpbot.2021.104696>, @2022 [Линк](#)
- 799.** Wu J, Zhu M, Liu W, Jahan MS, Gu Q, Shu S, Sun J, Guo S (2022) CsPAO2 Improves Salt Tolerance of Cucumber through the Interaction with CsPSA3 by Affecting Photosynthesis and Polyamine Conversion. *International Journal of Molecular Sciences*, 23(20):12413. <https://doi.org/10.3390/ijms232012413>, @2022 [Линк](#)
- 800.** Yadav M, Gupta P, Seth CS (2022) Foliar application of  $\alpha$ -lipoic acid attenuates cadmium toxicity on photosynthetic pigments and nitrogen metabolism in *Solanum lycopersicum* L. *Acta Physiol Plant* 44, 112. <https://doi.org/10.1007/s11738-022-03445-z>, @2022 [Линк](#)
- 801.** Yang N, Han M-H, Teng R-M, Yang Y-Z, Wang Y-H, Xiong A-S, Zhuang J (2022) Exogenous Melatonin Enhances Photosynthetic Capacity and Related Gene Expression in A Dose-Dependent Manner in the

- Tea Plant (*Camellia sinensis* (L.) Kuntze). *International Journal of Molecular Sciences*, 23(12):6694. <https://doi.org/10.3390/ijms23126694>, @2022 [Линк](#)
- 802.** Yin R, Z Hao, L Qu, H Wu, X Du, X Yuan, X Zhang, B Chen (2022) Mycorrhizal symbiosis and water condition affect ozone sensitivity of *Medicago sativa* L. by mediating stomatal conductance. *Environmental and Experimental Botany*, 202, 105037. <https://doi.org/10.1016/j.envexpbot.2022.105037>, @2022 [Линк](#)
- 803.** Yosefi A, Mozafari A., Javadi T (2022) In vitro assessment of strawberry (*Fragaria × ananassa* Duch.) plant responses to water shortage stress under nano-iron application. *In Vitro Cell.Dev.Biol.-Plant* 58, 499–510. <https://doi.org/10.1007/s11627-022-10255-y>, @2022 [Линк](#)
- 804.** Yuan Ye, Sun Hongwei, Wang Yue, Xu Zisong, Han Shixin, He Guoqiang, Yin Kuide, Huihui Zhang (2022) Wood vinegar alleviates photosynthetic inhibition and oxidative damage caused by *Pseudomonas syringae* pv. *tabaci* (Pst) infection in tobacco leaves. *Journal of Plant Interactions*, 17(1), 801-811. DOI: 10.1080/17429145.2022.2106385, @2022 [Линк](#)
- 805.** Yuksel B, AD Ozkan, D Aydın, Z Betts (2022) Evaluation of the antioxidative and genotoxic effects of sodium butyrate on breast cancer cells. *Saudi Journal of Biological Sciences*, 29(3), 1394-1401. <https://doi.org/10.1016/j.sjbs.2021.12.061>, @2022 [Линк](#)
- 806.** Yuksel B, Aydın D, Aksoy O (2022) The impact of Vermicompost on *Pisum sativum* spp. *Arvense* L exposed to methylisothiazolinone. *Biologia*, 77, 1109–1119. <https://doi.org/10.1007/s11756-021-01001-7>, @2022 [Линк](#)
- 807.** Zahedi SM, MS Hosseini, NDH Meybodi, J Abadía, M Germ, R Gholami, M Abdelrahman (2022) Evaluation of drought tolerance in three commercial pomegranate cultivars using photosynthetic pigments, yield parameters and biochemical traits as biomarkers. *Agricultural Water Management*, 261, 107357. <https://doi.org/10.1016/j.agwat.2021.107357>, @2022 [Линк](#)
- 808.** Zhang H, C Jiang, J Lei, J Dong, J Ren, X Shi, C Zhong, X Wang, X Zhao, H Yu (2022) Comparative physiological and transcriptomic analyses reveal key regulatory networks and potential hub genes controlling peanut chilling tolerance. *Genomics*, 114(2), 110285. <https://doi.org/10.1016/j.ygeno.2022.110285>, @2022 [Линк](#)
- 809.** Zhao L, L Guo, X Lu, WA Malik, Y Zhang, J Wang, X Chen, S Wang, J Wang, D Wang, W Ye (2022) Structure and character analysis of cotton response regulator genes family reveals that GhRR7 responses to draught stress. *Biol Res*, 55, 27. <https://doi.org/10.1186/s40659-022-00394-2>, @2022 [Линк](#)
- 810.** Zhong X, Hong W, Shu Y, Li J, Liu L, Chen X, Islam F, Zhou W, Tang G (2022) CRISPR/Cas9 mediated gene-editing of GmHdz4 transcription factor enhances drought tolerance in soybean (*Glycine max* [L.] Merr.). *Front Plant Sci.*, 13, 988505. <https://doi.org/10.3389/fpls.2022.988505>, @2022 [Линк](#)
- 811.** Zhou R, Cen B, Jiang F, Sun M, Wen J, Cao X, Cui S, Kong L, Zhou N, Wu Z (2022) Reducing the Halotolerance Gap between Sensitive and Resistant Tomato by Spraying Melatonin. *Agronomy*, 12(1), 84. <https://doi.org/10.3390/agronomy12010084>, @2022 [Линк](#)
- 812.** Abbasi N, Y Sohrabi, H Kiani, Using tragacanth gum mitigated the effects of drought stress on the black cumin (*Nigella sativa*) plant. *Agricultural Water Management*, 287, 2023, 108406., @2023 [Линк](#)
- 813.** Abdelhameed, R.E., Metwally, R.A. & Soliman, S.A. Prospects of *Bacillus amyloliquefaciens* (MZ945930) Mediated Enhancement of *Capsicum annum* L. Plants Under Stress of *Alternaria alternata* in Terms of Physiological Traits, Thiol Content, Antioxidant Defense, and Phytohormones. *J Plant Growth Regul* (2023)., @2023 [Линк](#)
- 814.** Abubaira M, Shahba M, Gamal G. Future Implications of Climate Change on *Arum palaestinum* Boiss: Drought Tolerance, Growth and Production. *Atmosphere*, 2023; 14(9):1361., @2023 [Линк](#)
- 815.** Ain Q, W Mushtaq, M Shadab, MB Siddiqui. Allelopathy: an alternative tool for sustainable agriculture. *Physiol Mol Biol Plants* 29, 495–511 (2023)., @2023 [Линк](#)
- 816.** Akhbarfar G, A Nikbakht, N Etemadi, O Gailing. Physiological and Biochemical Responses of Plantain Trees (*Platanus orientalis* L.) Derived from Different Ages to Drought Stress and *Ascophyllum nodosum* L. Extract. *J Soil Sci Plant Nutr* (2023)., @2023 [Линк](#)

817. Al-Hazmi, N.E., Naguib, D.M. Agricultural wastes polysaccharides promising soil fertilizer improves plant growth and resistance against soil-borne pathogens. *Plant Soil* (2023)., @2023 [Линк](#)
818. Alhammad BA, Abdel-Aziz HMM, Seleiman MF, Tourky SMN. How Can Biological and Chemical Silver Nanoparticles Positively Impact Physio-Chemical and Chloroplast Ultrastructural Characteristics of *Vicia faba* Seedlings? *Plants*. 2023; 12(13):2509., @2023 [Линк](#)
819. Alipanah S, F Nazari, M Koushesh Saba, JA Teixeira da Silva. Biochemical changes of autumn daffodil (*Sternbergia lutea*) during bulb dormancy and flowering. *Genet Resour Crop Evol* (2023)., @2023 [Линк](#)
820. Andrade M da S, Sousa JF de, Morais MB de, Albuquerque CC de. (2023) Saline pisciculture effluent as an alternative for irrigation of *Croton blanchetianus* (Euphorbiaceae). *Rev bras eng agríc ambient*, 27(4), 256–63., @2023 [Линк](#)
821. Ansari MS, G Ahmad, AA Khan, HI Mohamed. Coal fly ash application as an eco-friendly approach for modulating the growth, yield, and biochemical constituents of *Withania somnifera* L. plants. *Environ Sci Pollut Res* 30, 87958–87980 (2023)., @2023 [Линк](#)
822. Ansari N, DS Yadav, P Singh, M Agrawal, SB Agrawal, Ozone exposure response on physiological and biochemical parameters vis-a-vis secondary metabolites in a traditional medicinal plant *Sida cordifolia* L. *Industrial Crops and Products*, 194, 2023, 116267., @2023 [Линк](#)
823. Arshneshin H, Salimi A, Razavi SM, Khoshkam M. Synthesis and Characterization of a Quercetin-Based Nanocomposite and Its Ameliorating Impacts on the Growth, Physiological, and Biochemical Parameters of *Ocimum basilicum* L. under Salinity Stress. *Sustainability*. 2023; 15(15):12059., @2023 [Линк](#)
824. Asadi-Kavan Z, RA Khavari-Nejad, A Iranbakhsh, F Najafi. Influence of Iron Oxide Nanoparticles and Bulk ( $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>) on Metabolic and Physiological Characteristics of *Oenothera biennis* L. Plant. *Russ J Plant Physiol* 70, 101 (2023)., @2023 [Линк](#)
825. Asayesh ZA, K Arzani, A Mokhtassi-Bidgoli, H Abdollahi (2023) Enzymatic and non-enzymatic response of grafted and ungrafted young European pear (*Pyrus communis* L.) trees to drought stress. *Scientia Horticulturae*, 310, 111745., @2023 [Линк](#)
826. Asma, Hussain I, Ashraf MY, Saleem MH, Ashraf MA, Ali B, Shereen A, Farid G, Ali M, Shirazi MU, Saleem A, Mostafa YS, Hashem M, Yasin G (2023) Alleviating effects of salicylic acid spray on stage-based growth and antioxidative defense system in two drought-stressed rice (*Oryza sativa* L.) cultivars, *Turkish Journal of Agriculture and Forestry*, 47(1), Article 9., @2023 [Линк](#)
827. Bajwa MN, Khanum M, Zaman G, Ullah MA, Farooq U, Waqas M, Ahmad N, Hano C, Abbasi BH. Effect of Wide-Spectrum Monochromatic Lights on Growth, Phytochemistry, Nutraceuticals, and Antioxidant Potential of In Vitro Callus Cultures of *Moringa oleifera*. *Molecules*. 2023; 28(3):1497., @2023 [Линк](#)
828. Banerjee S, J Islam, S Mondal, A Saha, B Saha, A Sen (2023) Proactive attenuation of arsenic-stress by nano-priming: Zinc Oxide Nanoparticles in *Vigna mungo* (L.) Hepper trigger antioxidant defense response and reduce root-shoot arsenic translocation. *Journal of Hazardous Materials*, 446, 130735., @2023 [Линк](#)
829. Barhoumi S, H Ellouzi, A Krouma (2023) Functional Analysis of the Genotypic Differences in Response of Pea (*Pisum sativum* L.) to Calcareous-Induced Iron Deficiency. *Phyton-International Journal of Experimental Botany*, 92(2), <http://dx.doi.org/10.32604/phyton.2022.023555>, @2023 [Линк](#)
830. Basu, S., Kumari, S., Subhadarshini, P., Rishu, A.K., Shekhar, S. & Kumar, G. (2023) Plant growth promoting rhizobacterium *Bacillus* sp. BSE01 alleviates salt toxicity in chickpea (*Cicer arietinum* L.) by conserving ionic, osmotic, redox and hormonal homeostasis. *Physiologia Plantarum*, 175(6), e14076., @2023 [Линк](#)
831. Bernardi, L.G.P., Boaretto, R.M., Blain, G.C. & Mattos-Jr, D. (2023) Particle films improve photosynthesis of citrus trees under excess irradiance by reducing leaf temperature. *Physiologia Plantarum*, 175(1), e13844., @2023 [Линк](#)



832. Bhardwaj NR, M Rana, P Koli, R Kaldate, AK Roy, A Chandra. Rhizospheric *Trichoderma harzianum* TBR-7 in combination with chitosan for eco-friendly management of crown rot disease in Egyptian clover (*Trifolium alexandrinum* L.). *Eur J Plant Pathol* 167, 677–698 (2023)., @2023 [Линк](#)
833. Bini AP, GD Rossi, Y Poeschl, MCD Serra, LEA Camargo, CB Monteiro-Vitorello, M-A van Sluys, NM van Dam, H Uthe, S Creste, Molecular, biochemical and metabolomics analyses reveal constitutive and pathogen-induced defense responses of two sugarcane contrasting genotypes against leaf scald disease. *Plant Physiology and Biochemistry*, 203, 2023, 108033., @2023 [Линк](#)
834. Boaretto RM, FWR Hippler, LAJ Teixeira, RC Fornari, JA Quaggio, D Mattos Jr . Zinc fertilizers for Citrus production: assessing nutrient supply via fertigation or foliar application. *Plant Soil* (2023)., @2023 [Линк](#)
835. Bouhraoua J, F Lakhdar, S Mabrouki, O Assobhei, S Etahiri (2023) Fungal Growth Inhibition of *Bipolaris sorokiniana* Causal Agent of Wheat Diseases and Activating Defense Systems of Plants Using Algae Extract. *Egyptian Journal of Aquatic Biology & Fisheries Zoology Department, Faculty of Science*, 7(3), 1093-1113., @2023 [Линк](#)
836. Bovand F, Chavoshi S, Ghorbanpour M Titanium dioxide and silicon dioxide nanoparticles differentially affect germination and biochemical traits in marigold (*Calendula officinalis* L.) and lemon balm (*Melissa officinalis* L.). *Nanotechnol. Environ. Eng.* 8, 281–295 (2023)., @2023 [Линк](#)
837. Budran EG, MA Abdelhamid, NM Hassan, MMN Alla. Improving fatty acid composition of soybean yield under NaCl stress by soaking seeds in ascorbate. *Acta Physiol Plant* 45, 75 (2023), @2023 [Линк](#)
838. Budran EG; MA Abdelhamid, NM Hassan, MM Nemat Alla. Ameliorative Effect of Ascorbate on Growth and Oil Fatty Acid Composition of Soybean under Salinity. *Egyptian Journal of Botany*, 63, 2, 2023, 635-648., @2023 [Линк](#)
839. Campos FG, Dantas MO, Santos JPM, Froes SS, Gama JPS, Boaro CSF. UV-B Radiation in the Acclimatization Mechanism of *Psidium guajava* in Sunlight. *Horticulturae*. 2023; 9(12):1291., @2023 [Линк](#)
840. Cardoso CP, Campos FG, Napoleão GM, Barzotto GR, Campos LP, Ferreira G, Boaro CSF. Modification of Sugar Profile and Ripening in *Atemoya* (*Annona × atemoya* Mabb.) Fruits through Copper Hydroxide Application. *Plants*. 2023; 12(4):768., @2023 [Линк](#)
841. Castro-Cegrí A, M Ortega-Muñoz, S Sierra, F Carvajal, F Santoyo-Gonzalez, D Garrido, F Palma, Application of polysaccharide-based edible coatings to improve the quality of zucchini fruit during postharvest cold storage. *Scientia Horticulturae*, 314, 2023, 111941., @2023 [Линк](#)
842. Chang Q, Zhang L, Chen S, Gong M, Liu L, Hou X, Mi Y, Wang X, Wang J, Zhang Y, Sun Y. Exogenous Melatonin Enhances the Yield and Secondary Metabolite Contents of *Prunella vulgaris* by Modulating Antioxidant System, Root Architecture and Photosynthetic Capacity. *Plants*. 2023; 12(5):1129., @2023 [Линк](#)
843. Charfeddine M, N Chiab, S Charfeddine, R Gargouri-Bouزيد. Heat, drought, and combined stress effect on transgenic potato plants overexpressing the StERF94 transcription factor. *J Plant Res* 136, 549–562 (2023)., @2023 [Линк](#)
844. Chen X, G Chen, S Guo, Y Wang, J Sun, SISAMS1 enhances salt tolerance through regulation DNA methylation of SlGI in tomato. *Plant Science*, 335, 2023, 111808., @2023 [Линк](#)
845. Chiab N, M Kammoun, O Nouri-Ellouz, R Gargouri-Bouزيد, New potential roles of StDREB1 and VvWRKY2 transcription factors in potato dormancy and sprouting patterns, *Journal of Plant Physiology*. 289, 2023, 154077., @2023 [Линк](#)
846. Chipilski R, I Moskova, A Pencheva, K Kocheva, Enhancement of maize seed viability after cold storage and induced senescence by priming with synthetic cytokinins. *Zemdirbyste-Agriculture*, 110(1), 2023, 33–38., @2023
847. Chow YN, KY Foo, Insights into the per- and polyfluoroalkyl substances-contaminated paper mill processing discharge: Detection, phytotoxicity, bioaccumulative profiling, and health risk verification. *Journal of Cleaner Production*, 384, 2023, 135478., @2023 [Линк](#)

848. Cunha MLO, LCA de Oliveira, NAC Mendes, VM Silva, EF Vicente, AR dos Reis. Selenium Increases Photosynthetic Pigments, Flavonoid Biosynthesis, Nodulation, and Growth of Soybean Plants (*Glycine max* L.). *J Soil Sci Plant Nutr* 23, 1397–1407 (2023)., @2023 [Линк](#)
849. Das S, S Kundu, K Meena, RK Jha, A Varma, RN Bahuguna, S Tripathi. Seed biopriming with potential bioagents influences physiological processes and plant defense enzymes to ameliorate sheath blight induced yield loss in rice (*Oryza sativa* L.). *World J Microbiol Biotechnol* 39, 136 (2023)., @2023 [Линк](#)
850. Datta D, AK Senapati, L Behera, NW Zaidi, S Kumar, P Dey, S Kumar (2023) Alleviating drought stress in rice plant through intervention of *Trichoderma* spp. *Journal of Environmental Biology*, 44, 373-379., @2023 [Линк](#)
851. de Araujo MA, AAR Melo, VM Silva, AR dos Reis, Selenium enhances ROS scavenging systems and sugar metabolism increasing growth of sugarcane plants. *Plant Physiology and Biochemistry*, 201, 2023, 107798., @2023 [Линк](#)
852. De Palma N, ACA Yendo, J Vilasboa, DS Chacon, AG Fett-Neto. Biochemical responses in leaf tissues of alkaloid producing *Psychotria brachyceras* under multiple stresses. *J Plant Res* 136, 397–412 (2023)., @2023 [Линк](#)
853. de Souza Junior JP, RM Prado, CNS Campos, GS Sousa Junior, MG Costa, SP Teixeira, PL Gratão, Silicon modulate the non-enzymatic antioxidant defence system and oxidative stress in a similar way as boron in boron-deficient cotton flowers. *Plant Physiology and Biochemistry*, 197, 2023, 107594., @2023 [Линк](#)
854. Deng M, S Wang, H Huang, D Ye, X Zhang, Y Wang, Z Zheng, T Liu, T Li, H Yu, Hydrogen peroxide mediates cadmium accumulation in the root of a high cadmium-accumulating rice (*Oryza sativa* L.) line. *Journal of Hazardous Materials*, 448, 2023, 130969., @2023 [Линк](#)
855. Dhruv M, CM Kumar, UV Kumar, SJ Pal, C Preeti, Plant growth promoting potential of urea doped calcium phosphate nanoparticles in finger millet (*Eleusine coracana* (L.) Gaertn.) under drought stress. *Frontiers in Plant Science*, 14, 2023., @2023 [Линк](#)
856. Docema ML, TS Moraes, LB Attílio, JPR Marques, LCL Stipp, R Harakava, J Freitas-Astúa, J Belasque Junior, RA Azevedo, SA Gaziola, FAAM Filho. Transgenic ‘Hamlin’ sweet orange expressing *csd1* or *d4e1* genes exhibits decreased susceptibility to citrus canker disease. *Plant Cell Tiss Organ Cult* 152, 471–489 (2023)., @2023 [Линк](#)
857. Duc NH, V Szentpéteri, Z Mayer, K Posta, Distinct impact of arbuscular mycorrhizal isolates on tomato plant tolerance to drought combined with chronic and acute heat stress, *Plant Physiology and Biochemistry*. 201, 2023, 107892., @2023 [Линк](#)
858. Essa SM, Wafa HA, Mahgoub E-SI, Hassanin AA, Al-Khayri JM, Jalal AS, El-Moneim DA, ALshamrani SM, Safhi FA, Eldomiaty AS. Assessment of Eight Faba Bean (*Vicia faba* L.) Cultivars for Drought Stress Tolerance through Molecular, Morphological, and Physiochemical Parameters. *Sustainability*. 2023; 15(4):3291., @2023 [Линк](#)
859. Fu F, R Wang, M Zhao, Z Wu, W Sun, The mechanism underlying the response of *Agarophyton vermiculophyllum* to desiccation–rehydration stress. *Aquatic Botany*, 184, 2023, 103599., @2023 [Линк](#)
860. Gavassi MA, FRR Alves, CC Monteiro, LA Gaion, LR Alves, RM Prado, PL Gratão, RF Carvalho, Photomorphogenic tomato mutants high-pigment 1 and aurea responses to iron deficiency. *Scientia Horticulturae*, 307, 2023, 111502., @2023 [Линк](#)
861. Geneva M, E Kirova, M Sichanova, I Stancheva, E Zayova. Physiological analysis of drought stress influenced by *Claroideoglopus claroideum* inoculation of in vitro or seed-propagated *Coleus forskohlii* Briq plants. *Biologia* 78, 641–654 (2023)., @2023 [Линк](#)
862. Geneva M, Hristozkova M, Kirova E, Sichanova M, Stancheva I. Response to Drought Stress of In Vitro and In Vivo Propagated *Physalis peruviana* L. Plants Inoculated with Arbuscular Mycorrhizal Fungi. *Agriculture*. 2023; 13(2):472., @2023 [Линк](#)

863. Ghanbari F, M Bag-Nazari, A Azizi. Exogenous application of selenium and nano-selenium alleviates salt stress and improves secondary metabolites in lemon verbena under salinity stress. *Sci Rep* 13, 5352 (2023)., @2023 [Линк](#)
864. Golkar P, R Akbari, M Bazarganipour, R Javed, Biochemical and phytochemical responses of *Ammi visnaga* L. (Apiaceae) callus culture elicited by SiO<sub>2</sub> and graphene Oxide-SiO<sub>2</sub> nanoparticles. *Plant Physiology and Biochemistry*, 200, 2023, 107741., @2023 [Линк](#)
865. Gomes DG, Sanada K, Pieretti JC, Shigueoka LH, Sera GH, Seabra AB, Oliveira HC. Nanoencapsulation Boosts the Copper-Induced Defense Responses of a Susceptible *Coffea arabica* Cultivar against *Hemileia vastatrix*. *Antibiotics* 2023; 12(2):249., @2023 [Линк](#)
866. Hao T, Yang Z, Liang J, Yu J, Liu J. Foliar Application of Carnosine and Chitosan Improving Drought Tolerance in Bermudagrass. *Agronomy*. 2023; 13(2):442., @2023 [Линк](#)
867. Hashem, H.A., Esmail, N.Y. & Hassanein, A.A. Physiological changes in lupine plants in response to salt stress and nitric oxide signal. *Plant Physiol. Rep.* 28, 299–311 (2023)., @2023 [Линк](#)
868. Hatamipour S, L Shabani, S Farhadian (2023) Supportive effect of naringenin on NaCl-induced toxicity in *Carthamus tinctorius* seedlings, *International Journal of Phytoremediation*, 25:7, 889-899, DOI: 10.1080/15226514.2022.2117790, @2023 [Линк](#)
869. He Q, DL Liu, B Wang, A Cowie, A Simmons, C Waters, L Li, P Feng, Y Li, P de Voil, A Huete, Q Yu, Modelling interactions between cowpea cover crops and residue retention in Australian dryland cropping systems under climate change. *Agriculture, Ecosystems & Environment*, 353, 2023, 108536., @2023 [Линк](#)
870. Imran S, Mahamud A, Chandra Paul N, Chakroborty J, Sarker P, Paul S, Tahjib-Ul- Arif, Saidur Rhaman M. Seed priming and exogenous application of citric acid enhance seedling growth and photosynthetic pigments and mitigate oxidative damage of soybean (*Glycine max*) under salt stress. *Arch Biol Sci.* 2023, @2023 [Линк](#)
871. Jacomassi, L. M., Momesso, L., Pacola, M., Viveiros, J., Siqueira, G. F., Júnior, O. A., Campos, M., & Crusciol, C. A. C. (2023). A protective foliar complex boosts sugarcane quality and energy yield by reducing oxidative stress under drought. *Crop Science*, <https://doi.org/10.1002/csc2.21154>, @2023 [Линк](#)
872. Jahed P, Sedghi M, Seyed Sharifi R, Sofalian O (2023) Effect of Priming on Germination Traits and Antioxidant Enzymes of Pumpkin (*Cucurbita pepo* L.) Seeds with Different Vigor under Drought Stress. *Journal of Agricultural Sciences*, 29(2), 491-506., @2023 [Линк](#)
873. Jan R, Kim N, Asaf S, Lubna, Asif S, Du X-X, Kim E-G, Jang Y-H, Kim K-M (2023), OsCM regulates rice defence system in response to UV light supplemented with drought stress. *Plant Biol*, 25: 902-914., @2023 [Линк](#)
874. Janani R, BB Sharma, S Dhar, A Arora, H Choudhary, RK Yadav, D Singh, D Singh, AU Solanke, P Kumar. Physiological and biochemical responses of garden pea genotypes under reproductive stage heat stress. *Genet Resour Crop Evol* (2023)., @2023 [Линк](#)
875. Kashyap, K., Parihar, S. & Shekhawat, G.S. In vitro establishment of cell suspension culture of *Ceropegia bulbosa* for improved production of cerpegin content through elicitation of engineered carbon and ZnO nanoparticles. *Environ Sci Pollut Res* (2023)., @2023 [Линк](#)
876. Kaya C, F Ugurlar, M Ashraf, MN Alyemni, P Ahmad, Exploring the synergistic effects of melatonin and salicylic acid in enhancing drought stress tolerance in tomato plants through fine-tuning oxidative-nitrosative processes and methylglyoxal metabolism. *Scientia Horticulturae*, 321, 2023, 112368., @2023 [Линк](#)
877. Khan E, M Panthri, C Pandey, S Sahay, M Gupta. Silicon Modulates Expression of PIN Genes and Genotoxicity During Arsenic Stress in Rice (*Oryza sativa*). *J Soil Sci Plant Nutr* 23, 1660–1677 (2023)., @2023 [Линк](#)

878. Kim T-L, Lim H, Denison MIJ, Oh C. Transcriptomic and Physiological Analysis Reveals Genes Associated with Drought Stress Responses in *Populus alba* × *Populus glandulosa*. *Plants*. 2023; 12(18):3238., @2023 [Линк](#)
879. Kumar C, Chand P, Choudhary CS, Maurya S, Kumar A, Priya S (2023) Activity of different defense related antioxidative biochemical compound upon exogenous application of different elicitors on maize against *Helminthosporium maydis* Y. Nisik & C. Miyake. *Cereal Research Communications*. <https://doi.org/10.1007/s42976-023-00408-z>, @2023 [Линк](#)
880. Kumar D, OP Dhankher, RD Tripathi, CS Seth (2023) Titanium dioxide nanoparticles potentially regulate the mechanism(s) for photosynthetic attributes, genotoxicity, antioxidants defense machinery, and phytochelatin synthesis in relation to hexavalent chromium toxicity in *Helianthus annuus* L. *Journal of Hazardous Materials*, 454, 131418., @2023 [Линк](#)
881. Lacko-Bartošová M, Kaur A, Lacko-Bartošová L, Kobida L, Hudec M, Moudrý J. Concentration of Phenolic Compounds and Phenolic Acids of Various Spelt Cultivars in Response to Growing Years. *Agriculture*. 2023; 13(10):2024., @2023 [Линк](#)
882. Lacko-Bartošová M, Lacko-Bartošová L, Kobida L, Kaur A, Moudrý J. Phenolic Acids Profiles and Phenolic Concentrations of Emmer Cultivars in Response to Growing Year under Organic Management. *Foods*. 2023; 12(7):1480., @2023 [Линк](#)
883. Li S, Zhuo R, Yu M, Lin X, Xu J, Qiu W, Li H, Han X (2023) A novel gene SpCTP3 from the hyperaccumulator *Sedum plumbizincicola* redistributes cadmium and increases its accumulation in transgenic *Populus × canescens*. *Frontiers in Plant Science*, 14, <https://www.frontiersin.org/articles/10.3389/fpls.2023.1111789>, @2023 [Линк](#)
884. Li X, S Ullah, N Chen, X Tong, N Yang, J Liu, X Guo, Z Tang, Phytotoxicity assessment of dandelion exposed to microplastics using membership function value and integrated biological response index. *Environmental Pollution*, 333, 2023, 121933., @2023 [Линк](#)
885. Liaqat W, MT Altaf, C Barutçular, H Nawaz, I Ullah, A Basit, HI Mohamed. Ultraviolet-B radiation in relation to agriculture in the context of climate change: a review. *Cereal Research Communications* (2023), @2023 [Линк](#)
886. Lima JdS, Andrade OVS, Morais EGd, Machado GGL, Santos LCd, Andrade ESd, Benevenuto PAN, Martins GS, Nascimento VL, Marchiori PER, Lopes G, Boas EVBV, Guilherme LRG. KI Increases Tomato Fruit Quality and Water Deficit Tolerance by Improving Antioxidant Enzyme Activity and Amino Acid Accumulation: A Priming Effect or Relief during Stress? *Plants*. 2023; 12(23):4023., @2023 [Линк](#)
887. Lone ML, S Farooq, A ul Haq, F Altaf, S Parveen, I Tahir (2023) Jasmonates and salicylic acid as enigmatic orchestrators of capitula senescence in *Cosmos sulphureus* Cav. *Physiol Mol Biol Plants*, <https://doi.org/10.1007/s12298-023-01407-4>, @2023 [Линк](#)
888. Lu J, R Ye, M Qu, Y Wang, T Liang, J Lin, R Xie, Y Ke, J Gao, C Li, J Guo, W Tang, W Li, S Chen, Combined transcriptome and proteome analysis revealed the molecular regulation mechanisms of zinc homeostasis and antioxidant machinery in tobacco in response to different zinc supplies. *Plant Physiology and Biochemistry*, 202, 2023, 107919., @2023 [Линк](#)
889. Luo D, Li J, Luo J, Ma Y, Wang Y, Liu W, Rodriguez LG, Yao Y. Responses to Solar UV-B Exclusion and Drought Stress in Two Cultivars of Chestnut Rose with Different Leaf Thickness. *Forests*. 2023; 14(1):50., @2023 [Линк](#)
890. Ma L, Upadhyaya MK (2023) Influence of R/FR ratio on response of maize, lettuce, and *Amaranthus retroflexus* L. to UV-B radiation. *Weed Research*, 63(3), 165–174., @2023 [Линк](#)
891. Macedo JN, AG Sanches, MC Rabelo, MMA Lopes, VS Freitas, AG Silveira, CFH Moura, EO Silva, MI Gallão, E Gomes-Filho, EG Alves-Filho, MRA Miranda, Pulsed light influences several metabolic routes, delaying ripening and improving the postharvest quality of acerola. *Scientia Horticulturae*, 307, 2023, 111505., @2023 [Линк](#)
892. Machado J, Vasconcelos MW, Soares C, Fidalgo F, Heuvelink E, Carvalho SMP. Enzymatic and Non-Enzymatic Antioxidant Responses of Young Tomato Plants (cv. Micro-Tom) to Single and Combined Mild Nitrogen and Water Deficit: Not the Sum of the Parts. *Antioxidants*. 2023; 12(2):375., @2023 [Линк](#)

893. Madheshiya P, Gupta GS, Sahoo A, Tiwari S. Role of Elevated Ozone on Development and Metabolite Contents of Lemongrass [*Cymbopogon flexuosus* (Steud.) (Wats.)]. *Metabolites*, 2023, 13(5):597., @2023 [Линк](#)
894. Malik Z, N Malik, I Noor, M Kamran, A Parveen, M Ali, F Sabir, HO Elansary, TKZ El-Abedin, EA Mahmoud, S Fahad. Combined Effect of Rice-Straw Biochar and Humic Acid on Growth, Antioxidative Capacity, and Ion Uptake in Maize (*Zea mays* L.) Grown Under Saline Soil Conditions. *J Plant Growth Regul* 42, 3211–3228 (2023)., @2023 [Линк](#)
895. Mansouri, S., Koushesh Saba, M. & Sarikhani, H. Exogenous melatonin delays strawberry fruit ripening by suppressing endogenous ABA signaling. *Sci Rep* 13, 14209 (2023)., @2023 [Линк](#)
896. Marques DN, ML Nogueira, SA Gaziola, KD Batagin-Piotto, NC Freitas, BK Alcantara, LV Paiva, C Mason, FA Piotto, RA Azevedo, New insights into cadmium tolerance and accumulation in tomato: Dissecting root and shoot responses using cross-genotype grafting. *Environmental Research*, 216, Part 2, 2023, 114577., @2023 [Линк](#)
897. Mehmood S, W Ou, W Ahmed, J Bundschuh, M Rizwan, M Mahmood, H Sultan, JM Alatalo, ASM Elnahal, W Liu, W Li, ZnO nanoparticles mediated by *Azadirachta indica* as nano fertilizer: Improvement in physiological and biochemical indices of *Zea mays* grown in Cr-contaminated soil. *Environmental Pollution*, 339, 2023, 122755., @2023 [Линк](#)
898. Mehrabani, LV, Hassanpourghdam, MB, Rasouli F, Okcu Z, Marc, RA (2023) Foliar application of graphene oxide, nano-Fe, and selenium mitigates salinity depression on *Ocimum basilicum*. *Turkish Journal of Agriculture and Forestry*, 47(4), Article 8., @2023 [Линк](#)
899. Mendes NAC, MLO Cunha, MA Bosse, VM Silva, AL Moro, E Agathokleous, EF Vicente, AR dos Reis (2023) Physiological and biochemical role of nickel in nodulation and biological nitrogen fixation in *Vigna unguiculata* L. Walp. *Plant Physiology and Biochemistry*, 201, 107869., @2023 [Линк](#)
900. Methela NJ, A Pande, MS Islam, W Rahim, A Hussain, DS Lee, B-G Mun, NPMJ Raj, S-J Kim, Y Kim, B-W Yun. Chitosan-GSNO nanoparticles: a positive modulator of drought stress tolerance in soybean. *BMC Plant Biol* 23, 639 (2023)., @2023 [Линк](#)
901. Methela NJ, Islam MS, Lee D-S, Yun B-W, Mun B-G. S-Nitrosoglutathione (GSNO)-Mediated Lead Detoxification in Soybean through the Regulation of ROS and Metal-Related Transcripts. *International Journal of Molecular Sciences*. 2023; 24(12):9901., @2023 [Линк](#)
902. Metwally RA, Soliman SA Alleviation of the adverse effects of NaCl stress on tomato seedlings (*Solanum lycopersicum* L.) by *Trichoderma viride* through the antioxidative defense system. *Bot Stud* 64, 4 (2023)., @2023 [Линк](#)
903. Mirza Z, S Jonwal, H Saini, AK Sinha, M Gupta, Unraveling the molecular aspects of iron-mediated OsWRKY76 signaling under arsenic stress in rice. *Plant Physiology and Biochemistry*, 204, 2023, 108136., @2023 [Линк](#)
904. Mockevičiūtė R, Jurkonienė S, Šveikauskas V, Zareyan M, Jankovska-Bortkevič E, Jankauskienė J, Kozeko L, Gavelienė V. Probiotics, Proline and Calcium Induced Protective Responses of *Triticum aestivum* under Drought Stress. *Plants*. 2023; 12(6):1301., @2023 [Линк](#)
905. Mohammadi M, G Eghlima, M-E Ranjbar, Ascorbic acid reduces chilling injury in anthurium cut flowers during cold storage by increasing salicylic acid biosynthesis. *Postharvest Biology and Technology*, 201, 2023, 112359., @2023 [Линк](#)
906. Musavi, N., Ebadi, M., Khorshidi, M., Masoudian, N., & Hokmabadi, H. (2023). Study of Potato (*Solanum tuberosum* L. *Agria* Cultivar) Microtuberization and Physiological Properties in Salinity Stress via Tissue Culture Technique. *Journal of Chemical Health Risks*, <https://doi.org/10.22034/jchr.2023.1981240.1694>, @2023 [Линк](#)
907. Nazim M, M Ali, X Li, S Anjum, F Ahmad, U Zulfiqar, K Shahzad, W Soufan (2023) Unraveling the synergistic effects of microbes and selenium in alleviating drought stress in *Camelina sativa* L. *Plant Stress*, 9, 100193., @2023 [Линк](#)

908. Nixon F-V, AD Sánchez-Reinoso, S Bernal-Romero, YA Marín-Peña, CR Peña-Luna, G Fischer (2023) Glyphosate low doses reduce waterlogging damage in lettuce plants subjected to waterlogging and contribute to hormesis, *International Journal of Vegetable Science*, <https://doi.org/10.1080/19315260.2023.2289977>, @2023 [Линк](#)
909. Oliveira JAC, IP Garcia, EJA Corrêa, LHF de Lima, HL Santos, RMA de Assis, JEBP Pinto, SKV Bertolucci, Larvicidal susceptibility of essential oils from *Cinnamodendron dinisii*, *Callistemon viminalis* and *Myrcia tomentosa* against *Culex quinquefasciatus* (Say) (Diptera: Culicidae). *South African Journal of Botany*, 163, 2023, 95-104., @2023 [Линк](#)
910. Paimard F, Mohammadkhani A, Niazi A, Shahsavari AR, Nouri Imamzadei MR (2023) The Effect of Water Stress on Some Physiological and Biochemical Indices of Pomegranate cv. 'Wonderful. *Journal of Crops Improvement*, 25 (1), 279-296., @2023 [Линк](#)
911. Pandey, S., Chakraborty, D. Salicylic acid increases tolerance of *Vigna mungo* cv. T9 to short-term drought stress. *Acta Physiol Plant* 45, 25 (2023)., @2023 [Линк](#)
912. Parkash V, JL Snider, C Pilon, S Bag, D Jespersen, G Virk, KK Dhillon. Differential sensitivities of photosynthetic component processes govern oxidative stress levels and net assimilation rates in virus-infected cotton. *Photosynth Res* 158, 41–56 (2023)., @2023 [Линк](#)
913. Pasquoto-Stigliani T, M Guilger-Casagrande, EVR Campos, T Germano-Costa, N Bilesky-José, BB Migliorini, LO Feitosa, BT Sousa, HC de Oliveira, LF Fraceto, R Lima. Titanium biogenic nanoparticles to help the growth of *Trichoderma harzianum* to be used in biological control. *J Nanobiotechnol* 21, 166 (2023)., @2023 [Линк](#)
914. Pinit, S., Ariyakuliat, L. & Chaiwanon, J. Rice straw-derived smoke water promotes rice root growth under phosphorus deficiency by modulating oxidative stress and photosynthetic gene expression. *Sci Rep* 13, 14802 (2023)., @2023 [Линк](#)
915. Pradhan J, Sahoo JP, Behera L, Pramanik K, Sharma SS, Praveena J, Samal KC (2023) Brassinolide and Zinc Effect on Physio-Biochemistry of Garden Pea (*Pisum sativum* L.) under Water Deficit Condition. *Legume Research*. DOI: 10.18805/LR-5118, @2023 [Линк](#)
916. Putti FF, de Queiroz Barcelos JP, Goes BC, Alves RF, Neto MM, da Silva AO, Filho LRA, Zanetti WAL, de Souza AV. Effects of Water Deficit on Growth and Productivity in Tomato Crops Irrigated with Water Treated with Very Low-Frequency Electromagnetic Resonance Fields. *Plants*. 2023; 12(21):3721., @2023 [Линк](#)
917. Rahgoshahi M, KP Laghari, MM Rahimi, A Kelidari, K Keshavarzi. Physiological Enhancement of Seed Yield and Essential Oil Yield in Cumin under Drought Stress through Humic Acid and Seaweed Extract. *Russ J Plant Physiol* 70, 147 (2023)., @2023 [Линк](#)
918. Rahmani H., V Rasoli, V Abdossi, MG Jahromi (2023). Ch1 (*Vitis vinifera* L.) Rootstock Control of Scion Response to Water Stress in Some Commercial Grapevine Cultivars. *South African Journal of Enology and Viticulture*, 44(1), 1-8., @2023 [Линк](#)
919. Rakkammal K, S Pandian, T Maharajan, SA Ceasar, S-I Sohn, M Ramesh. Humic acid regulates gene expression and activity of antioxidant enzymes to inhibit the salt-induced oxidative stress in finger millet. *Cereal Research Communications* (2023)., @2023 [Линк](#)
920. Rasouli F, Amini T, Skrovankova S, Asadi M, Hassanpouraghdam MB, Ercisli S, Buckova M, Mrazkova M, Mlcek J, Influence of drought stress and mycorrhizal (*Funneliformis mosseae*) symbiosis on growth parameters, chlorophyll fluorescence, antioxidant activity, and essential oil composition of summer savory (*Satureja hortensis* L.) plants. *Frontiers in Plant Science*, 14, 2023., @2023 [Линк](#)
921. Rasouli F, P Yun, A Kiani-Pouya, A Movahedi, M Rasouli, M Salehi, S Shabala, One size does not fit all: different strategies employed by triticale and barley plants to deal with soil salinity. *Environmental and Experimental Botany*, 2023, 105585., @2023 [Линк](#)
922. Rathore, V., Nema, S.K. Investigating the Role of Plasma-Activated Water on the Growth of Freshwater Algae *Chlorella Pyrenoidosa* and *Chlorella Sorokiniana*. *Plasma Chem Plasma Process* (2023)., @2023 [Линк](#)

923. Razavizadeh, R., Adabavazeh, F. & Mosayebi, Z. Titanium dioxide nanoparticles improve element uptake, antioxidant properties, and essential oil productivity of *Melissa officinalis* L. seedlings under in vitro drought stress. *Environ Sci Pollut Res* 30, 98020–98033 (2023)., @2023 [Линк](#)
924. Rivas, R., Santos, M.G. The desert plant *Calotropis procera* maintains C3 photosynthetic metabolism under salt stress. *Theor. Exp. Plant Physiol.* 35, 1–16 (2023)., @2023 [Линк](#)
925. Romanenko, K.O., Babenko, L.M. & Kosakivska, I.V. Amino acids in regulation of abiotic stress tolerance in cereal crops: a review. *Cereal Research Communications* (2023). <https://doi.org/10.1007/s42976-023-00418-x>, @2023 [Линк](#)
926. Sakouhi L., Werghi S., Ben Massoud M., Murata Y, Chaoui A. Comparative Study of Different Melatonin Application Effects on Antioxidant System in Cadmium-Exposed Chickpea Seedlings. *J Soil Sci Plant Nutr* 23, 5513–5526 (2023). <https://doi.org/10.1007/s42729-023-01418-w>, @2023 [Линк](#)
927. Sakouhi, L., Chaoui, A. Modulation of antioxidant defense by exogenous compounds in cadmium-stressed chickpea seedlings. *Euro-Mediterr J Environ Integr* (2023). <https://doi.org/10.1007/s41207-023-00440-9>, @2023 [Линк](#)
928. Salaria P, S Jain, RD Bhardwaj, R Rani, S Jhanji, Physiological and biochemical responses of chilli pepper (*Capsicum annuum* L.) to sudden wilt syndrome. *Physiological and Molecular Plant Pathology*, 126, 2023, 102038., @2023 [Линк](#)
929. Salehi H, Cheheregani RA, Raza A, Djalovic I, Prasad PVV, The comparative effects of manganese nanoparticles and their counterparts (bulk and ionic) in *Artemisia annua* plants via seed priming and foliar application. *Frontiers in Plant Science*, 13, 2023, , @2023 [Линк](#)
930. Santini R, M Vantini Checchio, LS Correia Nunes, PL Gratão, AFM Camargo (2023) Do salinity, total nitrogen and phosphorus variation induce oxidative stress in emergent macrophytes along a tropical estuary?. *Aquat Ecol.* <https://doi.org/10.1007/s10452-023-10079-x>, @2023 [Линк](#)
931. Santos JS, MS Pontes, MB de Souza, SY Fernandes, RA Azevedo, GJ Arruda, EF Santiago, Toxicity of bisphenol A (BPA) and its analogues BPF and BPS on the free-floating macrophyte *Salvinia biloba*. *Chemosphere*, 343, 2023, 140235., @2023 [Линк](#)
932. Shahid M, S Shoukat, A Jamal, S Khalid (2023) Effect Of Application Of Growth Elicitors And In Silico Analysis Of Regulatory Proteins In Sweet Pea (*Pisum sativum* L.) Against Drought Stress. *Pak. J. Bot.*, 55(3): 983-993., @2023 [Линк](#)
933. Shaiek O, Y Mahjoubi, O Kharbech, A Debez, A Chaoui, W Djebali. Seed Pretreatment by CaCl<sub>2</sub> and NaHS Alleviates Oxidative Stress, Preserves Membrane Integrity, and Stimulates Hydrogen Sulfide Biosynthesis in Pea (*Pisum sativum* L.) Under Nickel Stress. *J Soil Sci Plant Nutr* 23, 4198–4211 (2023)., @2023 [Линк](#)
934. Shankar A, Prasad V, Potential of desiccation-tolerant plant growth-promoting rhizobacteria in growth augmentation of wheat (*Triticum aestivum* L.) under drought stress. *Frontiers in Microbiology*, 14, 2023., @2023 [Линк](#)
935. Sharma L, B Maurya, S Singh, S Pandey-Rai. Salt induced modulations in morphological, physiological, and metabolic attributes in in-vitro grown shoots of *Withania somnifera* (L.) Dunal. *Plant Cell Tiss Organ Cult* 154, 279–296 (2023)., @2023 [Линк](#)
936. Shibaeva TG, EG Sherudilo, AA Rubaeva, IA Levkin, AF Titov (2023) Effect of Abnormal Light/Dark Cycles on the Pigment Complex of Brassicaceae and Solanaceae Plants. *Russ J Plant Physiol* 70, 168., @2023 [Линк](#)
937. Shoaib N, K Pan, N Mughal, A Raza, L Liu, J Zhang, X Wu, X Sun, L Zhang, Z Pan (2023) Potential of UV-B radiation in drought stress resilience: A multidimensional approach to plant adaptation and future implications. *Plant, Cell & Environment*, 1–21., @2023 [Линк](#)
938. Shukla P, M Kidwai, S Narayan, PA Shirke, KD Pandey, P Misra, D Chakrabarty. Phytoremediation potential of *Solanum viarum* Dunal and functional aspects of their capitate glandular trichomes in lead, cadmium, and zinc detoxification. *Environ Sci Pollut Res* 30, 41878–41899 (2023)., @2023 [Линк](#)

939. Shumayla, S Tyagi, Y Sharma, Madhu, A Sharma, A Pandey, K Singh, SK Upadhyay, Expression of TaNCL2-A ameliorates cadmium toxicity by increasing calcium and enzymatic antioxidants activities in arabidopsis. *Chemosphere*, 329, 2023, 138636., @2023 [Линк](#)
940. Sichanova M, Geneva M, Petrova M, Miladinova-Georgieva K, Kirova E, Nedev T, Tsekova D, Ivanova V, Trendafilova A. Influence of the Abiotic Elicitors Ag Salts of Aspartic Acid Derivatives, Self-Organized in Nanofibers with Monomeric and Dimeric Molecular Structures, on the Antioxidant Activity and Stevioside Content in Micropropagated *Stevia rebaudiana* Bert. *Plants*. 2023; 12(20):3574., @2023 [Линк](#)
941. Silva-Santos L, LP Neto, N Corte-Real, MVL Sperandio, CAG Camara, MM Moraes, C Ulisses. Elicitation with Methyl Jasmonate and Salicylic Acid Increase Essential Oil Production and Modulate Physiological Parameters in *Lippia alba* (Mill) N.E. Brown (Verbenaceae). *J Plant Growth Regul* 42, 5909–5927 (2023)., @2023 [Линк](#)
942. Singh AA, A Ghosh, B Pandey, M Agrawal, SB Agrawal. Unravelling the ozone toxicity in *Zea mays* L. (C4 plant) under the elevated level of CO<sub>2</sub> fertilization. *Trop Ecol* 64, 739–755 (2023), @2023 [Линк](#)
943. Singh P, N Ansari, SP Rai, M Agrawal, S Bhushan. Effect of elevated ozone on the antioxidant response, genomic stability, DNA methylation pattern and yield in three species of *Abelmoschus* having different ploidy levels. *Environ Sci Pollut Res* 30, 59401–59423 (2023)., @2023 [Линк](#)
944. Soares C, P Mateus, F Fidalgo, R Pereira, Modulation of the non-target phytotoxicity of glyphosate by soil organic matter in tomato (*Solanum lycopersicum* L.) plants. *Scientia Horticulturae*, 310, 2023, 111773., @2023 [Линк](#)
945. Solouki A, MZ Mehrjerdi, R Azimi, S Aliniaiefard, Improving basil (*Ocimum basilicum* L.) essential oil yield following down-regulation of photosynthetic functionality by short-term application of abiotic elicitors. *Biocatalysis and Agricultural Biotechnology*, 50, 2023, 102675., @2023 [Линк](#)
946. Sonia, V Kaur, SK Yadav, SS Arya, J Aravind, SR Jacob, RKGautam. Development and evaluation of barley mini-core collection for salinity tolerance and identification of novel haplotypic variants for HvRAF. *Plant Soil* (2023)., @2023 [Линк](#)
947. Stefanov MA, Rashkov GD, Yotsova EK, Borisova PB, Dobrikova AG, Apostolova EL. Protective Effects of Sodium Nitroprusside on Photosynthetic Performance of *Sorghum bicolor* L. under Salt Stress. *Plants*. 2023; 12(4):832., @2023 [Линк](#)
948. Šutevski I, Krmpotić K, Vitko S, Bauer N, Fancev E, Cifrek M, Vidaković-Cifrek Ž (2023) Biochemical and Physiological Responses of *Arabidopsis thaliana* Leaves to Moderate Mechanical Stimulation. *Phyton-International Journal of Experimental Botany*, 92(3), 901-920., @2023
949. Sweellum, T.A., Naguib, D.M. Tomato potato onion intercropping induces tomato resistance against soil borne pathogen, *Fusarium oxysporum* through improvement soil enzymatic status, and the metabolic status of tomato root and shoot. *J Plant Dis Prot* 130, 245–261 (2023)., @2023 [Линк](#)
950. Taghavi T, Patel H, Rafie R. Extraction Solvents Affect Anthocyanin Yield, Color, and Profile of Strawberries. *Plants*. 2023; 12(9):1833., @2023 [Линк](#)
951. Thakur R, Sharma S, Devi R, Sirari A, Tiwari RK, Lal MK, Kumar R. 2023. Exploring the molecular basis of resistance to *Botrytis cinerea* in chickpea genotypes through biochemical and morphological markers. *PeerJ* 11:e15560, @2023 [Линк](#)
952. Tyagi S, Shumayla, Y Sharma, Madhu, A Sharma, A Pandey, K Singh, SK Upadhyay (2023) TaGPX1-D overexpression provides salinity and osmotic stress tolerance in *Arabidopsis*. *Plant Science*, 337, 111881., @2023 [Линк](#)
953. Uzma J, Talla SK, Mamidala P. Insights into the impact of Spermidine in reducing Salinity Stress in *Gerbera jamesonii*. *J App Biol Biotech*. 2023;11(4):141-147., @2023 [Линк](#)
954. Varjovi MB, RA Zakaria, S Rostamnia, B Gholipour. Biosynthesized Ag nanoparticles on urea-based periodic mesoporous organosilica enhance galegine content in *Galega*. *Appl Microbiol Biotechnol* 107, 1589–1608 (2023)., @2023 [Линк](#)



955. Woch, N., Laha, S. & Gudipalli, P. Salicylic acid and jasmonic acid induced enhanced production of total phenolics, flavonoids, and antioxidant metabolism in callus cultures of *Givotia moluccana* (L.) Sreem. *In Vitro Cell.Dev.Biol.-Plant* 59, 227–248 (2023)., @2023 [Линк](#)
956. Wong HM, RW Hofmann, SM Reichman, The interactions of iron nutrition, salinity and ultraviolet-B radiation on the physiological responses of wheat (*Triticum aestivum* L.). *Environmental and Experimental Botany*, 207, 2023, 105201., @2023 [Линк](#)
957. Wubetie A. Wassie, Animut M. Andualem, Abiyu E. Molla, Zelalem G. Tarekegn, Mersha W. Aragaw, Misganaw T. Ayana (2023) Growth, Physiological, and Biochemical Responses of Ethiopian Red Pepper (*Capsicum annum* L.) Cultivars to Drought Stress. *The Scientific World Journal*, Vol. 2023, Article ID 4374318., @2023 [Линк](#)
958. Yousaf MI, Riaz MW, Shehzad A, Jamil S, Shahzad R, Kanwal S, Ghani A, Ali F, Abdullah M, Ashfaq M, Hussain Q. 2023. Responses of maize hybrids to water stress conditions at different developmental stages: accumulation of reactive oxygen species, activity of enzymatic antioxidants and degradation in kernel quality traits. *PeerJ* 11:e14983, @2023 [Линк](#)
959. Zahedi SM, Hosseini MS, Fahadi Hoveizeh N, Kadkhodaei S, Vaculík M. Physiological and Biochemical Responses of Commercial Strawberry Cultivars under Optimal and Drought Stress Conditions. *Plants*. 2023; 12(3):496., @2023 [Линк](#)
960. Zahedi SM, MS Hosseini, NF Hoveizeh, S Kadkhodaei, M Vaculík (2023) Comparative morphological, physiological and molecular analyses of drought-stressed strawberry plants affected by SiO<sub>2</sub> and SiO<sub>2</sub>-NPs foliar spray. *Scientia Horticulturae*, 309, 111686., @2023 [Линк](#)
961. Zanetti LV, Werner ET, Cuzzuol GRF, Milanez CRD (2023) Silicon in cacao plants exposed to UV-B radiation. *Pesquisa. Agropecuária Brasileira*, 58, e0308., @2023 [Линк](#)
962. Zangani E, A Ansari, F Shekari, B Andalibi, K Afsahi, A Mastinu. Alleviating the Injuries of NaCl Exposure on Respiratory Activities, Leaf Stomatal and Antioxidant Defense of *Silybum marianum* L. Seedlings by Exogenous Nitric Oxide. *J Plant Growth Regul* 42, 7731–7748 (2023)., @2023 [Линк](#)
963. Zhang H, J Guo, X Chen, Y Zhou, Y Pei, L Chen, S ul Haq, M Zhang, H Gong, R Chen, Transcription factor CabHLH035 promotes cold resistance and homeostasis of reactive oxygen species in pepper. *Horticultural Plant Journal*, 2023, , @2023 [Линк](#)
964. Zhang, S., Ren, Y., Zhao, Q., Wu, Y., Zhuo, Y. & Li, H. (2023) Drought-induced CsMYB6 interacts with CsbHLH111 to regulate anthocyanin biosynthesis in *Chaenomeles speciosa*. *Physiologia Plantarum*, 175(1), e13859., @2023 [Линк](#)
965. Zhao L, Y Wang, R Cui, Y Cui, X Lu, X Chen, J Wang, D Wang, Z Yin, S Wang, F Peng, L Guo, C Chen, W Ye (2023) Analysis of the histidine kinase gene family and the role of GhHK8 in response to drought tolerance in cotton. *Physiologia Plantarum*, 175(5), e14022., @2023 [Линк](#)

---

## 2002

---

7. Alexieva, V, Sergiev, I, Manolov, I, Karanov, E. Plant growth regulating activity of some coumarins and biscoumarins. *Comptes rendus de l'Academie bulgare des Sciences*, 55, 9, BAS, 2002, 91-98. ISI IF:0.284

Цитира се в:

966. Zhao Y, Wang Z, Xu P, Yang Y, Liu Y, Liu H, Ai J (2018) The Characteristics of Chlorophyll Fluorescence and Metabolism of Reactive Oxygen Species in Relation to the Cold Injury of *Vitis amurensis* 'Shuangfeng' and 'Zuoyouhong'. *Acta Horticulturae Sinica*, 45(4): 650–658., @2018 [Линк](#)

---

## 2003

---

8. Sergiev, I, Todorova, D, Alexieva, V, Karanov, E, Smith, A, Hall, M. Rosette leaf senescence in wild type and ethylene-insensitive mutant of *Arabidopsis thaliana* (L.) Heynh during inflorescence and fruit development.

Phytohormones in plant biotechnology and agriculture, Springer Netherlands, 2003, ISBN:978-1-4020-1723-0, DOI:10.1007/978-94-017-2664-1, 265, 217-228

Цитира се в:

967. Bhattacharya, A., 2019. Chapter 6 - Effect of High-Temperature Stress on the Metabolism of Plant Growth Regulators, In: Bhattacharya A. (ed.), Effect of High Temperature on Crop Productivity and Metabolism of Macro Molecules, Academic Press, Chapter 6, pp. 485-591, ISBN 9780128175620, @2019

9. Alexieva, V, Ivanov, S, Sergiev, I, Karanov, E. Interaction between stresses. Bulgarian Journal of Plant Physiology, Special issue, Institute of Plant Physiology - BAS, 2003, 1-17

Цитира се в:

968. Kong RS, HAL Henry (2017) - Does cross-acclimation between drought and freezing stress persist over ecologically-relevant time spans? A test using the grass *Poa pratensis*. Plant Biol, DOI: 10.1111/plb.12667, @2017

969. Hui R, R Zhao, G Song, Y Li, Y Zhao, Y Wang (2018) Effects of enhanced ultraviolet-B radiation, water deficit, and their combination on UV-absorbing compounds and osmotic adjustment substances in two different moss species. Environmental Science and Pollution Research 25(15), 14953–14963., @2018 [Линк](#)

970. Kanagendran A, L Pazouki, Ü Niinemets (2018) Differential regulation of volatile emission from *Eucalyptus globulus* leaves upon single and combined ozone and wounding treatments through recovery and relationships with ozone uptake. Environmental and Experimental Botany 145, 21-38. DOI: 10.1016/j.envexpbot.2017.10.012, @2018 [Линк](#)

971. Lockhart BR, ES Gardiner, TD Leininger, PB Hamel, AD Wilson, MS Devall, NM Schiff, KF Connor (2018) Biomass Accumulation in the Endangered Shrub *Lindera melissifolia* as Affected by Gradients of Light Availability and Soil Flooding. For. Sci. 64(6):631–640. doi: 10.1093/forsci/fxy024, @2018 [Линк](#)

972. Marinov-Serafimov P, I Golubinova, S Enchev (2018) Reaction of sorghum vulgare var. *Technicum* [körn.] In the early growth stages of development in drought and water deficiency in laboratory conditions. Bulgarian Journal of Agricultural Science, 24(2), 90-99., @2018 [Линк](#)

973. Rybus-Zajac M, J Kubiś (2018) Nitrogen metabolism in cucumber cotyledons and leaves exposed to the drought stress and excessive UV-B radiation. Acta Sci. Pol. Hortorum Cultus, 17(5), 23–36., @2018 [Линк](#)

974. Ma Y, B Wang, R Zhang, Y Gao, X Zhang, Y Li, Z Zuo (2019) Initial simulated acid rain impacts reactive oxygen species metabolism and photosynthetic abilities in *Cinnamomum camphora* undergoing high temperature. Industrial Crops and Products, 135, 352-361., @2019 [Линк](#)

975. Sirgedaite-Šežiene V, L Baležentienė, I Varnagirytė-Kabašinskiene, V Stakenas, V Baliuckas (2019) Allelopathic effects of dominant ground vegetation species on initial growth of *Pinus sylvestris* L. seedlings in response to different temperature scenarios. iForest - Biogeosciences and Forestry, 12(1), 132-140., @2019 [Линк](#)

976. Golubinova I (2020) Effects of drought stress in genotypes *Sorghum vulgare* var. *technicum* [Körn.] by using sucrose in laboratory condition. Bulgarian Journal of Agricultural Science, 26(1), 61–69., @2020 [Линк](#)

977. Hock M, Plos C, Sporbert M, Erfmeier A (2020) Combined Effects of UV-B and Drought on Native and Exotic Populations of *Verbascum thapsus* L. Plants, 9(2):269., @2020 [Линк](#)

978. Pazzaglia J, Santillán-Sarmiento A, Helber SB, Ruocco M, Terlizzi A, Marín-Guirao L, Procaccini G (2020) Does Warming Enhance the Effects of Eutrophication in the Seagrass *Posidonia oceanica*? Frontiers in Marine Science, 7: 564805., @2020 [Линк](#)

979. Santos DYAC, MJP Ferreira, TM Matos, WR Sala-Carvalho, F Anselmo-Moreira, LP Roma, JCS Carvalho, M Peña-Hidalgo, K French, MJ Waterman, SA Robinson, CM Furlan (2020) UV-B and Drought Stress

Influenced Growth and Cellular Compounds of Two Cultivars of *Phaseolus vulgaris* L. (Fabaceae). Photochemistry and Photobiology, <https://doi.org/10.1111/php.13318>, @2020 [Линк](#)

980. Sirgedaitė-Šėžienė V, V Mildažienė, P Žemaitis, A Ivankov, K Koga, M Shiratani, V Baliuckas (2020) Long-term response of Norway spruce to seed treatment with cold plasma: Dependence of the effects on the genotype. Plasma Processes and Polymers, <https://doi.org/10.1002/ppap.202000159>, @2020 [Линк](#)
981. Zhou DR, KA Miller, M Greenwood, E Boucher, CA Mandato, MT Greenwood (2020) Correcting an instance of synthetic lethality with a pro-survival sequence. Biochimica et Biophysica Acta (BBA) - Molecular Cell Research, 1867(9), 118734., @2020 [Линк](#)
982. Babalik Z, N Gokturk Baydar (2021) Asmalarda Kuraklık ve Tuz Stresi. European Journal of Science and Technology, 21, 358 - 368., @2021 [Линк](#)
983. Lučinskaitė I, K Laužikė, J Žiauka, V Baliuckas, V Čėsna, V Sirgedaitė-Šėžienė (2021) Assessment of biologically active compounds, organic acids and antioxidant activity in needle extracts of different Norway spruce (*Picea abies* (L.) H. Karst) half-sib families. Wood Sci Technol 55, 1221–1235., @2021 [Линк](#)
984. Moin S, MW Abbasi, N Ahmed, A Rauf, M Azeem, Mtariq, MJZakia (2021) Short term exposure with ultraviolet radiations: A strategy to improve resistance against root-infecting fungi in *Luffa cylindrica* (L.) Roem. Acta Ecologica Sinica, 41(2), 157-163., @2021 [Линк](#)
985. Santos DYC, Ferreira MJP, Matos T.M., Sala-Carvalho WR, Anselmo-Moreira F, Roma LP, Carvalho JCS, Peña-Hidalgo M, French K, Waterman MJ, Robinson SA, Furlan CM (2021) UV-B and Drought Stress Influenced Growth and Cellular Compounds of Two Cultivars of *Phaseolus vulgaris* L. (Fabaceae). Photochem Photobiol, 97: 166-179., @2021 [Линк](#)
986. Sirgedaitė-Šėžienė V, Marčiulynas A, Baliuckas V (2021) Effect of Extracts from Dominant Forest Floor Species of Clear-Cuts on the Regeneration and Initial Growth of *Pinus sylvestris* L. with Respect to Climate Change. Plants, 10(5):916., @2021 [Линк](#)
987. Sirgedaitė-Šėžienė V, V Mildažienė, P Žemaitis, A Ivankov, K Koga, M Shiratani, V Baliuckas (2021) Long-term response of Norway spruce to seed treatment with cold plasma: dependence of the effects on the genotype. Plasma Process Polym. 18:2000159., @2021 [Линк](#)
988. Yang X-J, Chen Y, Hu Z, Ma S, Zhang J, Shen H (2021) Alginate Oligosaccharides Alleviate the Damage of Rice Leaves Caused by Acid Rain and High Temperature. Agronomy, 11(3):500., @2021 [Линк](#)
989. Marambio J, Diehl N, Bischof K (2022) High Ecophysiological Plasticity of *Desmarestia aculeata* (Phaeophyceae) Present in an Arctic Fjord under Varying Salinity and Irradiance Conditions. Biology. 2022; 11(10):1499. <https://doi.org/10.3390/biology11101499>, @2022 [Линк](#)
990. Sirgedaitė-Šėžienė V, Laužikė K, Uselis N, Samuolienė G (2022) Metabolic Response of *Malus domestica* Borkh cv. Rubin Apple to Canopy Training Treatments in Intensive Orchards. Horticulturae, 8(4), 300. <https://doi.org/10.3390/horticulturae8040300>, @2022 [Линк](#)
991. Shoaib N, K Pan, N Mughal, A Raza, L Liu, J Zhang, X Wu, X Sun, L Zhang, Z Pan (2023) Potential of UV-B radiation in drought stress resilience: A multidimensional approach to plant adaptation and future implications. Plant, Cell & Environment, 1–21., @2023 [Линк](#)

---

## 2004

---

10. Sergiev, I, Alexieva, V, Ivanov, S, Bankova, V, Mapelli, S. Plant growth regulating activity of some flavonoids. Comptes rendus de l'Academie bulgare des Sciences, 57, 4, BAS, 2004, 65-70. ISI IF:0.284

Цитира се в:

992. Tsygankova VA, Andrushevich YaV, Shtompel OI, Shablykin OV, Hurenko AO, Solomyanny RM, Mrug GP, Frasinuk MS, Pilyo SG, Kornienko AM, Brovarets VS (2018) Auxin-like effect of derivatives of Pyrimidine, Pyrazole, Isoflavones, Pyridine, Oxazolopyrimidine and Oxazole on acceleration of

Vegetative growth of Flax. International Journal of PharmTech Research 11(03), 274-286., @2018 [Линк](#)

993. Tsygankova VA, Andrusevich YaV, Shtompel OI, Solomyanny RM, Hurenko AO, Frasinuk MS, Mrug GP, Shablykin OV, Pilyo SG, Kornienko AM, Brovarets VS (2018) Study of auxin-like and cytokinin-like activities of derivatives of pyrimidine, pyrazole, isoflavones, pyridine, oxazolopyrimidine and oxazole on haricot bean and pumpkin plants. International Journal of ChemTech Research 11(10), 174-190., @2018 [Линк](#)
994. Elansary HO, AME Abdel-Hamid, K Yessoufou, FA Al-Mana, DO El-Ansary, EA Mahmoud, MA Al-Yafrasi (2020) Physiological and molecular characterization of water-stressed Chrysanthemum under robinin and chitosan treatment. Acta Physiol Plant, 42, 31., @2020 [Линк](#)
995. Anikina I, Issayeva K (2023) Use of the preparation based on Solanum nigrum as a potato yield stimulator. Bulgarian Journal of Agricultural Science, 29(2), 272-276., @2023

---

## 2005

---

11. Vaseva-Gemicheva, I, Sergiev, I, Todorova, D, Alexieva, V, Stanoeva, E, Lachkova, V, Karanov, E. Antagonistic effects of triazolo[4,5-d]pyrimidine and pyridylurea derivatives on cytokinin-induced cytokinin oxidase/dehydrogenase activity in young pea plants. Plant Growth Regulation, 46, Springer, 2005, ISSN:01676903, 15735087, реферира се в SCOPUS, 193-197. SJR:0.428, ISI IF:1.672

Цитира се в:

996. Akbas, E., S. Ekin, E. Ergan, Y. Karakus, 2018. Synthesis, DFT calculations, spectroscopy and in vitro antioxidant activity studies on 4-hydroxyphenyl substituted thiopyrimidine derivatives, Journal of Molecular Structure, 1174, 177-183, @2018 [Линк](#)

---

## 2006

---

12. Sergiev, I, Alexieva, V, Ivanov, S, Moskova, I, Karanov, E. The phenylurea cytokinin 4PU-30 protects maize plants against glyphosate action. Pesticide Biochemistry and Physiology, 85, Elsevier, 2006, ISSN:0048-3575, DOI:10.1016/j.pestbp.2006.01.001, 139-146. ISI IF:2.014

Цитира се в:

997. de Freitas-Silva L, M Rodríguez-Ruiz, H Houmani, LC da Silva, JM Palma, FJ Corpas (2017) - Glyphosate-induced oxidative stress in Arabidopsis thaliana affecting peroxisomal metabolism and triggers activity in the oxidative phase of the pentose phosphate pathway (OxPPP) involved in NADPH generation. Journal of Plant Physiology, 218, 196-205., @2017 [Линк](#)
998. Gomes MP, EM Bicalho, É Smedbol, FV da Silva Cruz, M Lucotte, QS Garcia (2017) - Glyphosate Can Decrease Germination of Glyphosate-Resistant Soybeans. J Agric Food Chem, 65(11), 2279–2286., @2017 [Линк](#)
999. Li Y-H, D-R Li, W-S Liang, J-H Tian, J-C Li, H Wang, M-T Li, X-P Guo, W-J Chen, Z-L Zhang, F Mao, W-G Zhao (2017) - Improved application of tribenuron-methyl as a chemical hybridizing agent with forchlorfenuron for rapeseed hybrid breeding. Euphytica (2017) 213: 255., @2017 [Линк](#)
1000. Barbaferri M, E Morelli, Etassi, F Pedron, D Remorini, G Petruzzelli (2018) Overcoming limitation of “recalcitrant areas” to phytoextraction process: The synergistic effects of exogenous cytokinins and nitrogen treatments. Science of The Total Environment 639, 1520-1529., @2018 [Линк](#)
1001. Iummato MM, SE Sabatini, LC Cacciatore, AC Cochón, D Cataldo, MCarmenR de Molina, ÁB Juárez (2018) Biochemical responses of the golden mussel Limnoperna fortunei under dietary glyphosate exposure. Ecotoxicology and Environmental Safety 163, 69-75., @2018 [Линк](#)
1002. Smedbol, É., Gomes, M. P., Paquet, S., Labrecque, M., Lepage, L., Lucotte, M., & Juneau, P. (2018). Effects of low concentrations of glyphosate-based herbicide factor 540® on an agricultural stream

- freshwater phytoplankton community. *Chemosphere*, 192, 133-141; DOI: 10.1016/j.chemosphere.2017.10.128, @2018 [Линк](#)
- 1003.** Tiwari S, A Singh, SM Prasad (2018) Chapter 9: Regulation of Pesticide Stress on Metabolic Activities of Plant. In: *Metabolic Adaptations in Plants During Abiotic Stress* (Eds.: A Ramakrishna, SS Gill), Boca Raton, CRC Press, ISBN 9781351676830, pp 99-110., @2018 [Линк](#)
- 1004.** Zhong G, Z Wu, N Liu, J Yin (2018) Phosphate alleviation of glyphosate-induced toxicity in *Hydrocharis dubia* (Bl.) Backer. *Aquatic Toxicology* 201, 91-98., @2018 [Линк](#)
- 1005.** Bibi S, S Khan, N Taimur, MK Daud, A Azizullah (2019) Responses of morphological, physiological, and biochemical characteristics of maize (*Zea mays* L.) seedlings to atrazine stress. *Environ Monit Assess* (2019) 191: 717., @2019 [Линк](#)
- 1006.** Iummato MM, A Fassiano, M Graziano, MS Afonso, MCR Molina, ÁB Juárez (2019) Effect of glyphosate on the growth, morphology, ultrastructure and metabolism of *Scenedesmus vacuolatus*. *Ecotoxicology and Environmental Safety*, 172, 471-479., @2019 [Линк](#)
- 1007.** Liu N, G Zhong, J Zhou, Y Liu, Y Pang, H Cai, Z Wu (2019) Separate and combined effects of glyphosate and copper on growth and antioxidative enzymes in *Salvinia natans* (L.) All. *Science of The Total Environment*, 655, 1448-1456., @2019 [Линк](#)
- 1008.** Piasecki C, IR Carvalho, J Cechin, FAP Goulart, LC Maia, D Agostinetto, A Caverzan, CN Stewart Jr., L Vargas (2019) Oxidative stress and differential antioxidant enzyme activity in glyphosate-resistant and -sensitive hairy fleabane in response to glyphosate treatment. *Bragantia* 78(3), <http://dx.doi.org/10.1590/1678-4499.20180289>, @2019 [Линк](#)
- 1009.** Sacała E, M Roszak (2019) Mitigation of glyphosate-based herbicide toxicity in maize (*Zea mays* L.) seedlings by ascorbic acid. *Toxicological & Environmental Chemistry*, 100(5-7), 550-559., @2019 [Линк](#)
- 1010.** Sharma A, V Kumar, B Shahzad, M Ramakrishnan, GPS Sidhu, AS Bali, N Handa, D Kapoor, P Yadav, K Khanna, P Bakshi, A Rehman, SK Kohli, EA Khan, RD Parihar, H Yuan, AK Thukral, R Bhardwaj, B Zheng (2019) Photosynthetic Response of Plants Under Different Abiotic Stresses: A Review. *Journal of Plant Growth Regulation*, <https://doi.org/10.1007/s00344-019-10018-x>, @2019 [Линк](#)
- 1011.** Sikorski L, M Baciak, A Beś, B Adomas (2019) The effects of glyphosate-based herbicide formulations on *Lemna minor*, a non-target species. *Aquatic Toxicology*, 209, 70-80., @2019 [Линк](#)
- 1012.** Spormann S, C Soares, F Fidalgo (2019) Salicylic acid alleviates glyphosate-induced oxidative stress in *Hordeum vulgare* L. *Journal of Environmental Management*, 241, 226-234., @2019 [Линк](#)
- 1013.** Stupak EE, IG Migranova, ER Sharafieva, NN Egorova, SI Stupak, VI Nikonov (2019) The glyphosate influence on cytogenetic and biochemical aspects of wheat (*Triticum aestivum* L) seedlings development. *IOP Conf. Ser.: Earth Environ. Sci.*315 042018, @2019 [Линк](#)
- 1014.** Fernandes B, Soares C, Braga C, Rebotim A, Ferreira R, Ferreira J, Fidalgo F, Pereira R, Cachada A (2020) Ecotoxicological Assessment of a Glyphosate-Based Herbicide in Cover Plants: *Medicago sativa* L. as a Model Species. *Applied Sciences*, 10(15), 5098., @2020 [Линк](#)
- 1015.** Li J, J Zhong, Q Liu, H Yang, Z Wang, Y Li, W Zhang, I Agranovski (2020) Indoor formaldehyde removal by three species of *Chlorophytum comosum* under dynamic fumigation system: part 2—plant recovery. *Environ Sci Pollut Res*, <https://doi.org/10.1007/s11356-020-11167-3>, @2020 [Линк](#)
- 1016.** Nunes JES, Duque MA, de Freitas TF, Galina L, Timmers LFSM, Bizarro CV, Machado P, Basso LA, Ducati RG (2020) Mycobacterium tuberculosis Shikimate Pathway Enzymes as Targets for the Rational Design of Anti-Tuberculosis Drugs. *Molecules*, 25(6), 1259., @2020 [Линк](#)
- 1017.** Ostera JM, G Malanga, S Puntarulo (2020) Assessment of oxidative balance in hydrophilic cellular environment in *Chlorella vulgaris* exposed to glyphosate. *Chemosphere*, 248, 125955., @2020 [Линк](#)
- 1018.** Piotrowska-Niczyporuk A, A Bajguz, U Kotowska, E Zambrzycka-Szelewa, A Sienkiewicz (2020) Auxins and Cytokinins Regulate Phytohormone Homeostasis and Thiol-Mediated Detoxification in the Green Alga *Acutodesmus obliquus* Exposed to Lead Stress. *Sci Rep* , 10, 10193., @2020 [Линк](#)

- 1019.** Santos JS, MS Pontes, R Grillo, AR Fiorucci, GJ Arruda, EF Santiago (2020) Physiological mechanisms and phytoremediation potential of the macrophyte *Salvinia biloba* towards a commercial formulation and an analytical standard of glyphosate. *Chemosphere*, 259, 127417., @2020 [Линк](#)
- 1020.** Singh S, V Kumar, S Datta, AB Wani, DS Dhanjal, R Romero, J Singh (2020) Glyphosate uptake, translocation, resistance emergence in crops, analytical monitoring, toxicity and degradation: a review. *Environ Chem Lett*, 18, 663–702., @2020 [Линк](#)
- 1021.** Tani E, A Perraki, M Gerakari, D Chachalis, P Kanatas, M Goufa, I Papadakis (2020) How is glyphosate resistance modified by exogenous salicylic acid application on *Conyza bonariensis* biotypes. *Phytoparasitica*, 48, 305–315., @2020 [Линк](#)
- 1022.** Zhao L, X Liuyong, H Jingli, S Yingchun, Z Chunqing (2020) Proper Glyphosate Application at Post-anthesis Lowers Grain Moisture Content at Harvest and Reallocates Non-structural Carbohydrates in Maize. *Frontiers in Plant Science*, 11, 2018., @2020 [Линк](#)
- 1023.** Ganugi P, B Miras-Moreno, P Garcia-Perez, L Lucini, M Trevisan (2021) Concealed metabolic reprogramming induced by different herbicides in tomato. *Plant Science*, 303, 110727., @2021 [Линк](#)
- 1024.** Rehaman A, Mishra AK, Ferdose A, Per TS, Hanief M, Jan AT, Asgher M (2021) Melatonin in Plant Defense against Abiotic Stress. *Forests*, 12(10):1404., @2021 [Линк](#)
- 1025.** Eceiza MV, M Gil-Monreal, M Barco-Antoñanzas, A Zabalza, M Royuela (2022) The moderate oxidative stress induced by glyphosate is not detected in *Amaranthus palmeri* plants overexpressing EPSPS. *Journal of Plant Physiology*, 274, 153720. <https://doi.org/10.1016/j.jplph.2022.153720>, @2022 [Линк](#)
- 1026.** Gao Z, Y Liu, Q Huang, B Li, T Ma, X Qin, L Zhao, Y Sun, Y Xu (2022) Effects of sepiolite and biochar on the photosynthetic and antioxidant systems of pakchoi under Cd and atrazine stress, *Journal of Environmental Science and Health, Part B*, DOI: 10.1080/03601234.2022.2133922, @2022 [Линк](#)
- 1027.** Ibrahim RIH, Alkhudairi UA, Alhusayni SAS (2022) Alleviation of Herbicide Toxicity in *Solanum lycopersicum* L.—An Antioxidant Stimulation Approach. *Plants*, 11(17), 2261. <https://doi.org/10.3390/plants11172261>, @2022 [Линк](#)
- 1028.** Neshev N, D Balabanova, M Yanev, A Mitkov (2022) Is the plant biostimulant application ameliorative for herbicide-damaged sunflower hybrids? *Industrial Crops and Products*, 182, 114926. <https://doi.org/10.1016/j.indcrop.2022.114926>, @2022 [Линк](#)
- 1029.** Osman M.EA.H., Abo-Shady A.M., Gaafar R.M., Ismail GA, El-Nagar MMF (2022) Assessment of Cyanobacteria and Tryptophan role in the Alleviation of the Toxic Action of Brominal Herbicide on Wheat Plants. *Gesunde Pflanzen*, <https://doi.org/10.1007/s10343-022-00785-1>, @2022 [Линк](#)
- 1030.** Tiwari RK, R Kumar, MK Lal, A Kumar, MA Altaf, R Devi, V Mangal, S Naz, MM Altaf, A Dey, T Aftab (2022) Melatonin-Polyamine Interplay in the Regulation of Stress Responses in Plants. *J Plant Growth Regul*, <https://doi.org/10.1007/s00344-022-10717-y>, @2022 [Линк](#)
- 1031.** Yu W, Xue Z, Zhao X, Zhang R, Liu J, Guo S (2022) Glyphosate-induced GhAG2 is involved in resistance to salt stress in cotton. *Plant Cell Rep*, 41, 1131–1145. <https://doi.org/10.1007/s00299-022-02844-3>, @2022 [Линк](#)
- 1032.** Bortolheiro FPAP, MC Brunelli-Nascentes, HL Santos, MA Silva (2023) Increased hormetic dose of glyphosate causes oxidative stress and reduces yield in common bean. *Plant Stress*, 10, 100231., @2023 [Линк](#)
- 1033.** Hassannejad S, B Fadaei, E Abbasvand, SP Ghafarbi, Z Nasirpour. Early response of *Solanum nigrum* L. to Lumax and castor oil combination in relation to antioxidant activity, osmolyte concentration and chlorophyll a fluorescence. *Sci Rep* 13, 409 (2023)., @2023 [Линк](#)
- 1034.** Jia Y, L Kang, Y Wu, C Zhou, D Li, J Li, C Pan (2023) Review on Pesticide Abiotic Stress over Crop Health and Intervention by Various Biostimulants. *Journal of Agricultural and Food Chemistry*, 71(37), 13595-13611. DOI: 10.1021/acs.jafc.3c04013, @2023 [Линк](#)
- 1035.** Liu S, J Rao, J Zhu, G Li, F Li, H Zhang, L Tao, Q Zhou, Y Tao, Y Zhang, K Huang, C Wei (2023) Integrated physiological, metabolite and proteomic analysis reveal the glyphosate stress response mechanism in tea plant (*Camellia sinensis*). *Journal of Hazardous Materials*, 454, 131419., @2023 [Линк](#)

- 1036.** Lukatkin, A.S., Semenova, A.S. & Teixeira da Silva, J.A. Treatment of winter rye (*Secale cereale* L.) seeds with thidiazuron mitigates the toxic response of seedlings to short-term treatment with a herbicide, paraquat. *Acta Physiol Plant* 45, 78 (2023). <https://doi.org/10.1007/s11738-023-03565-0>, @2023 [Линк](#)
- 1037.** Osman MEAH, AM Abo-Shady, RM Gaafar, GA Ismail, MMF El-Nagar. Assessment of Cyanobacteria and Tryptophan role in the Alleviation of the Toxic Action of Brominal Herbicide on Wheat Plants. *Gesunde Pflanzen* 75, 785–799 (2023)., @2023 [Линк](#)
- 1038.** Sati H, AV Chinchkar, P Kataria, S Pareek (2023) Melatonin: A potential abiotic stress regulator. *Plant Stress*, 10, 100293. <https://doi.org/10.1016/j.stress.2023.100293>, @2023 [Линк](#)
- 1039.** Tiwari RK, R Kumar, MK Lal, A Kumar, MA Altaf, R Devi, V Mangal, S Naz, MM Altaf, A Dey, T Aftab. Melatonin-Polyamine Interplay in the Regulation of Stress Responses in Plants. *J Plant Growth Regul* 42, 4834–4850 (2023)., @2023 [Линк](#)
- 1040.** Traxler C, TA Gaines, A Küpper, P Luemmen, FE Dayan (2023) The nexus between reactive oxygen species and the mechanism of action of herbicides. *Journal of Biological Chemistry*, 299(11), 105267., @2023 [Линк](#)

---

## 2007

---

- 13. Todorova, D, Sergiev, I, Alexieva, V, Karanov, E, Smith, A, Hall, M.** Polyamine content in *Arabidopsis thaliana* (L.) Heynh during recovery after low and high temperature treatments. *Plant Growth Regulation*, 51, Springer, 2007, ISSN:0167-6903, DOI:10.1007/s10725-006-9143-1, 185-191. ISI IF:1.672

Цитира се в:

- 1041.** Du, J., S. Shu, Y An, H. Zhou, Sh. Guo , J. Sun (2017) - Influence of exogenous spermidine on carbon–nitrogen metabolism under Ca(NO<sub>3</sub>)<sub>2</sub> stress in cucumber root. *Plant Growth Regulation*, 81(1), 103–115. doi:10.1007/s10725-016-0193-8, @2017 [Линк](#)
- 1042.** Sang Q, Shan X, An Y, Shu S, Sun J and Guo S (2017) Proteomic Analysis Reveals the Positive Effect of Exogenous Spermidine in Tomato Seedlings’ Response to High-Temperature Stress. *Front. Plant Sci.* 8:120. doi: 10.3389/fpls.2017.00120, @2017 [Линк](#)
- 1043.** Zhang L, Hu T, Amombo E, Wang G, Xie Y and Fu J (2017) The Alleviation of Heat Damage to Photosystem II and Enzymatic Antioxidants by Exogenous Spermidine in Tall Fescue. *Front. Plant Sci.* 8:1747. doi: 10.3389/fpls.2017.01747., @2017 [Линк](#)
- 1044.** Asthir, B., R Kumar, NS Bains (2018). Why and how putrescine modulates thermotolerance in wheat? *Indian Journal of Biochemistry and Biophysics*, 55, 404-412, @2018 [Линк](#)
- 1045.** Khoshbakht D, MR Asghari, M Haghghi (2018) Effects of foliar applications of nitric oxide and spermidine on chlorophyll fluorescence, photosynthesis and antioxidant enzyme activities of citrus seedlings under salinity stress. *Photosynthetica* 56(4), 1313–1325., @2018 [Линк](#)
- 1046.** Khoshbakht, D., Asghari, M.R. & Haghghi, M. (2018). Influence of foliar application of polyamines on growth, gas exchange characteristics, and chlorophyll fluorescence in Bakraii citrus under saline conditions. *Photosynthetica*, 56 (2), 731-742. doi:10.1007/s11099-017-0723-2, @2018 [Линк](#)
- 1047.** Zhou Y., M. Diao, X. Chen, J. Cui, S. Pang, Y. Li, C. Hou, H.-y. Liu. 2019. Application of exogenous glutathione confers salinity stress tolerance in tomato seedlings by modulating ions homeostasis and polyamine metabolism. *Scientia Horticulturae* 250, 45–58., @2019 [Линк](#)
- 1048.** ElSayed AI, AH Mohamed, MS Rafudeen, AA Omar, MF Awad, E Mansour (2022) Polyamines mitigate the destructive impacts of salinity stress by enhancing photosynthetic capacity, antioxidant defense system and upregulation of calvin cycle-related genes in rapeseed (*Brassica napus* L.). *Saudi Journal of Biological Sciences*, 29(5), 3675-3686. <https://doi.org/10.1016/j.sjbs.2022.02.053>, @2022 [Линк](#)
- 1049.** Singh S, Sharma PC (2022) 1H Nuclear Magnetic Resonance (NMR)-Based Metabolome Diversity of Seabuckthorn (*H. rhamnoides* L.) Berries Originating from Two Geographical Regions of Indian

14. **Sergiev, I, Todorova, D**, Somleva, M, **Alexieva, V**, Karanov, E, Stanoeva, E, Lachkova, V, Smith, A, Hall, M. Influence of cytokinins and novel cytokinin antagonists on the senescence of detached leaves of *Arabidopsis thaliana* (L.) Heynh. *Biologia Plantarum*, 51, 2, Springer, 2007, ISSN:0006-3134, DOI:10.1007/s10535-007-0079-8, 377-380. ISI IF:1.74

Цитира се в:

1050. Hönig, M., L. Plíhalová, A. Husicková, J. Nisler, K. Doležal, 2018. Role of Cytokinins in Senescence, Antioxidant Defence and Photosynthesis. *Int. J. Mol. Sci.*, 19 (12), 4045, @2018 [Линк](#)
1051. Peng F, Si M, Zizhu Y, Fu Y, Yang Y, Yu Y, Bi C. 2020. Rapid Quantification of Fungicide Effectiveness on Inhibiting Wheat Stripe Rust Pathogen (*Puccinia striiformis* f. sp. tritici). *Plant Dis.* 104(9):2434-2439. doi:10.1094/PDIS-09-19-1836-RE, @2020 [Линк](#)
1052. Zhang Y., Liu J., Pan Y., Gao Z., Hu M., Zhang Z. (2021) Physiological Mechanisms by Which Forchlorfenuron Soaking Treatment Delays Postharvest Ripening and Softening of Mango Fruit. *Shipin Kexue/Food Science*, 42 (19) , pp. 234-241., @2021 [Линк](#)

---

2009

---

15. **Moskova, I, Todorova, D, Alexieva, V**, Ivanov, S, **Sergiev, I**. Effect of exogenous hydrogen peroxide on enzymatic and nonenzymatic antioxidants in leaves of young pea plants treated with paraquat. *Plant Growth Regulation*, 57, 2, Springer, 2009, ISSN:0167-6903, DOI:10.1007/s10725-008-9336-x, 193-202. ISI IF:1.672

Цитира се в:

1053. Alikhani-Koupaei M, R Fatahi, Z Zamani, S Salimi, 5-Aminolevulinic acid moderates environmental stress-induced bunch wilting and stress markers in date palm. *Acta Physiologiae Plantarum* 40:159, 2018. DOI: 10.1007/s11738-018-2720-x, @2018 [Линк](#)
1054. Zhang, F., Wang, F., Li, D., 2018. Cloning and molecular characterization of a ferulate-5-hydroxylase gene from water chestnuts (*Trapa bicornis* Osbeck.), *Journal of Plant Biochemistry and Biotechnology*, 27(2), pp. 139-146, @2018 [Линк](#)
1055. Chumyam A., B. Faiyue, K. Saengnil, “Reduction of enzymatic browning of fresh-cut guava fruit by exogenous hydrogen peroxide-activated peroxiredoxin/thioredoxin system”, *Scientia Horticulturae*, Volume 255, 20 September 2019, Pages 260-268, @2019 [Линк](#)
1056. Liu, YJ, W Zhang, ZB Wang, L Ma, YP Guo, XL Ren, L.X. MEI ... “Influence of shading on photosynthesis and antioxidative activities of enzymes in apple trees”, *PHOTOSYNTHETICA* 57 (3): 857-865, 2019, @2019 [Линк](#)
1057. Alikhani-Koupaei, M., Aghdam, M.S. (2020). Early detection of date alternate bearing disorder based on physiological marker of carbon allocation and evaluation of the disorder using trehalose as allocation modifier. *Acta Physiol Plant* 42, 179. <https://doi.org/10.1007/s11738-020-03165-2>., @2020 [Линк](#)
1058. Kerchev, P., T. van der Meer, N. Sujeeth, A. Verlee, C. V. Stevens, F. Van Breusegem, T. Gechev., 2020. Molecular priming as an approach to induce tolerance against abiotic and oxidative stresses in crop plants, *Biotechnology Advances*, 40, art. N 107503, @2020 [Линк](#)
1059. Noh, S.W., J. S. Park, S. J. Kim, D.-W. Kim, W. S. Kang. 2020. Effect of Plasma-activated Water Process on the Growth and Functional Substance Content of Lettuce during the Cultivation Period in a Deep Flow Technique System. *Protected Horticulture and Plant Factory*, 29 (4): 464-472. <https://doi.org/10.12791/KSBECS.2020.29.4.464>. (In Korean), @2020 [Линк](#)
1060. Omidbakhshfard, M. A., N. Sujeeth, S. Gupta, N. Omranian, K. J. Guinan, Y. Brotman, Z. Nikoloski, A. R. Fernie, B. Mueller-Roeber, T. S. Gechev. 2020. A Biostimulant Obtained from the Seaweed *Ascophyllum nodosum* Protects *Arabidopsis thaliana* from Severe Oxidative Stress. *International Journal of Molecular Sciences*, 21(2):474; doi:10.3390/ijms21020474, @2020 [Линк](#)



- 1061.** Alikhani-Koupaei M, MS Aghdam (2021) Defining date palm leaf pruning line in bearing status by tracking physiological markers and expression of senescence-related genes. *Plant Physiology and Biochemistry*, 167, 550-560., @2021 [Линк](#)
- 1062.** Singh P, C Pokharia, K Shah (2021) Exogenous Peroxidase Mitigates Cadmium Toxicity, Enhances Rhizobial Population and Lowers Root Knot Formation in Rice Seedlings. *Rice Science*, 28(2), 166-177., @2021 [Линк](#)
- 1063.** Łozowicka B, E Wołejko, P Kaczyński, R Konecki, P Iwaniuk, W Drągowski, J Łozowicki, G Tujtebajeva, U Wydro, A Jabłońska-Trypuć (2021) Effect of microorganism on behaviour of two commonly used herbicides in wheat/soil system. *Applied Soil Ecology*, 162, 103879., @2021 [Линк](#)
- 1064.** Ferriz-Martínez RA, Espinosa-Villarreal N, Chávez-Servín JL, Mercado-Luna A, de la Torre-Carbot K, Serrano-Arellano J, Saldaña C, García-Gasca T. Effect of Foliar Application of Hydrogen Peroxide Macroconcentrations on Growth Parameters, Phenolic Compounds and Antioxidant Capacity in the Leaves and Seeds of *Amaranthus hypochondriacus* L. *Plants*. 2023; 12(7):1499., @2023 [Линк](#)

---

## 2011

---

- 16. Moskova, I, Todorova, D, Alexieva, V, Sergiev, I.** Leaf morphology and histology changes of pea plants treated with hydrogen peroxide and paraquat. *Comptes rendus de l'Académie bulgare des Sciences*, 64, 12, BAS, 2011, ISSN:1310-1331, 1695-1700. JCR-IF (Web of Science):0.284

Цитира се в:

- 1065.** de Lima D. A., C. Müller, A. C. Costa, P. F. Batista, V. C. Dalvi, M. Domingos. 2017. Morphoanatomical and physiological changes in *Bauhinia variegata* L. as indicators of herbicide diuron action. *Ecotoxicology and Environmental Safety* 141, 242–250, @2017 [Линк](#)
- 1066.** Li Z, W Shen, X Zhou, Q Zhan, Q Peng, L Wang, L Wu, H Yang, L Bai (2019) Changes in *Conyza canadensis* (L.) Cronquist leaf anatomy under caprylic acid stress. *Pak. J. Bot.*, 51(4): 1223-1229., @2019 [Линк](#)
- 1067.** Karpenko V, Y Boiko, R Prytuliak, A Datsenko, S Shutko, T Novikova (2021) Anatomical changes in the epidermis of winter pea stipules and their area under usage of herbicide, stimulator of plant growth and microbial preparation. *Agronomy Research*, 19(2), 472–483., @2021 [Линк](#)
- 1068.** Oliveira TB, Aucique-Pérez CE, Einhardt AM, Rodrigues FÁ (2021) Wheat susceptibility to blast is enhanced by a photosynthetic inhibitor. *Journal of Phytopathology*, 169(10), 630-639., @2021 [Линк](#)
- 1069.** Oliveira TB, CE Aucique-Pérez, RT Ávila, FM Oliveira, LA Peixoto, AM Einhardt, FÁ Rodrigues (2021) Photosynthesis inhibitor-mediated biochemical and physiological changes in wheat plants challenged with *Pyricularia oryzae*. *Trop. plant pathol.* 46, 608–621., @2021 [Линк](#)
- 1070.** de Oliveira AAP, Costa AC, Filho AJC, de Freitas DAC, Silva KLF (2022) Respostas fisiológicas e morfoanatômicas de *Bowdichia virgilioides* Kunth. (Fabaceae) submetidas ao herbicida paraquat. *Revista em Agronegócio e Meio Ambiente*, 15(3), 1-21., @2022 [Линк](#)
- 1071.** Lónová K, P Kalousek, M Klemš, H Fišerová. Changes in photosynthetic dispositions in pea plants caused by fluoranthene and flurochloridone: from the subcellular level to the anatomical changes. *Acta Physiologica Plant* 45, 11 (2023)., @2023 [Линк](#)

---

## 2012

---

- 17. Katerova Z, Todorova D, Tasheva K, Sergiev I.** Influence of ultraviolet radiation on plant secondary metabolite production. *Genetics and Plant Physiology*, 2, 3-4, BAS, 2012, ISSN:1314-6394, 113-144

Цитира се в:

- 1072.** Gogo EO, AM Opiyo, K Hassenberg, Ch Ulrichs, S Huyskens-Keil (2017) Postharvest UV-C treatment for extending shelf life and improving nutritional quality of African indigenous leafy vegetables.

- 1073.** Han H., C.-C. Chou, R. Li, J. Liu, L. Zhang, W. Zhu, J. Hu, B. Yang, J. Tian. 2018. Chalconoracine is a potent anticancer agent acting through triggering Oxidative stress via a mitophagy- and paraptosis-dependent mechanism. *Scientific Reports*, 8:9566, @2018 [Линк](#)
- 1074.** Moon SH, M Pandurangan, DH Kim, J Venkatesh, RV Patel, BM Mistry (2018) A rich source of potential bioactive compounds with anticancer activities by *Catharanthus roseus* cambium meristematic stem cell cultures. *Journal of Ethnopharmacology* 217, 107-117., @2018 [Линк](#)
- 1075.** Almkhtar, S. A., M. A. Alrubaye, E. A. Elkaaby, Z. K. Kadhim, C. K. Alkilabi, 2019. Effect of irradiation by gamma rays and the use of benzyl adenine to increase the production of cardiac glycoside compounds from *Digitalis lanata* in vitro. *IOP Conf. Series: Earth and Environmental Science* 388: 012068. Online ISSN: 1755-1315, Print ISSN: 1755-1307., @2019 [Линк](#)
- 1076.** Duarte-Sierra A., Nadeau F., Angers P., Michaud D., Arul J. UV-C hormesis in broccoli florets: Preservation, phyto-compounds and gene expression. *Postharvest Biology and Technology*, vol. 157, (110965), p. 1 – 10., @2019 [Линк](#)
- 1077.** Kaducová M., Dolores Monje-Rueda M., García-Calderón M., María Pérez-Delgado C., Eliášová A., Gajdošová S., Petruřová V., Betti M., Márquez A. J., Pařove-Balang P., 2019. Induction of isoflavonoid biosynthesis in *Lotus japonicus* after UV-B irradiation. *Journal of Plant Physiology*, v. 236, p. 88 – 95, 2019, @2019 [Линк](#)
- 1078.** Nestby R., A.L. Hykkerud and I. Martinussen, 2019. Review of botanical characterization, growth preferences, climatic adaptation and human health effects of Ericaceae and Empetraceae wild dwarf shrub berries in boreal, alpine and arctic areas. *Journal of Berry Research*, vol. 9, no. 3, pp. 515-547, @2019 [Линк](#)
- 1079.** Azarafshan M, Peyvandi M, Abbaspour H, Noormohammadi, Z., Majd, A. (2020) The effects of UV-B radiation on genetic and biochemical changes of *Pelargonium graveolens* L'Her. *Physiol Mol Biol Plants* 26, 605–616, @2020 [Линк](#)
- 1080.** Karakas, F.P., Bozat, B.G. Fluctuation in secondary metabolite production and antioxidant defense enzymes in in vitro callus cultures of goat's rue (*Galega officinalis*) under different abiotic stress treatments. *Plant Cell Tiss Organ Cult*, 142, 401–414., @2020 [Линк](#)
- 1081.** Karki KB, AK Mishra, S-J Choi, K-H Baek (2020) Effect of Ultraviolet C Irradiation on Isoflavone Concentrations in Different Cultivars of Soybean (*Glycine max*). *Plants (Basel)*, 9, 8, 1043., @2020 [Линк](#)
- 1082.** Mishra, AK., SJ Choi, KH Baek, 2020. Application of ultraviolet c irradiation for the increased production of secondary metabolites in plants. *The Journal of Animal & Plant Sciences*, 30(5): 1082-1091., @2020 [Линк](#)
- 1083.** Nazari M, F Zarinkamar (2020) Ultraviolet-B induced changes in *Mentha aquatica* (a medicinal plant) at early and late vegetative growth stages: Investigations at molecular and genetic levels. *Industrial Crops and Products*, 154, 112618, @2020 [Линк](#)
- 1084.** Vanhaelewyn L, Van Der Straeten D, De Coninck B, Vandenbussche F (2020) Ultraviolet Radiation From a Plant Perspective: The Plant-Microorganism Context. *Front. Plant Sci.* 11:597642. doi: 10.3389/fpls.2020.597642, @2020 [Линк](#)
- 1085.** Abbasi BH, Khan T, Khurshid R, Nadeem M, Drouet S, Hano C. UV-C mediated accumulation of pharmacologically significant phytochemicals under light regimes in in vitro culture of *Fagonia indica* (L.). *Sci Rep* 11, 679 (2021). <https://doi.org/10.1038/s41598-020-79896-6>, @2021 [Линк](#)
- 1086.** Apoorva, D Jaiswal, Sh Pandey-Rai, SB Agrawal (2021) Untangling the UV-B radiation-induced transcriptional network regulating plant morphogenesis and secondary metabolite production. *Environmental and Experimental Botany*, 192, 104655, <https://doi.org/10.1016/j.envexpbot.2021.104655>., @2021 [Линк](#)

- 1087.** Chiboub O, Sifaoui I, Abderrabba M, Mejri M, Fernández JJ, Díaz-Marrero AR, Lorenzo-Morales J, Piñero JE . Apoptosis-like cell death upon kinetoplastid induction by compounds isolated from the brown algae *Dictyota spiralis*. *Parasites Vectors* 14, 198 (2021)., @2021 [Линк](#)
- 1088.** Hernandez-Aguilar C, Dominguez-Pacheco A, Tenango MP, Valderrama-Bravo C, Hernández MS, Cruz-Orea A, Ordóñez-Miranda J. Characterization of Bean Seeds, Germination, and Phenolic Compounds of Seedlings by UV-C Radiation. *J Plant Growth Regul* 40, 642–655 (2021)., @2021 [Линк](#)
- 1089.** Islam MJ, Ryu BR, Azad MOK, Rahman MH, Cheong EJ, Lim J-D, Lim Y-S (2021) Cannabinoids Accumulation in Hemp (*Cannabis sativa* L.) Plants under LED Light Spectra and Their Discrete Role as a Stress Marker. *Biology*. 10, 8, 710. <https://doi.org/10.3390/biology10080710>, @2021 [Линк](#)
- 1090.** Kandasamy N, Kaliappan K, Palanisamy T (2021) Upcycling sawdust into colorant: Ecofriendly natural dyeing of fabrics with ultrasound assisted dye extract of *Pterocarpus indicus* Willd. *Industrial Crops and Products*, 171, 113969, <https://doi.org/10.1016/j.indcrop.2021.113969>, @2021 [Линк](#)
- 1091.** Kuck, L.S., Noreña, C.P.Z., 2021. Effect of UV-C Irradiation on Quality from Fresh Grapes var. Bordô. *Brazilian Archives of Biology and Technology*. 64: e21200735, , @2021 [Линк](#)
- 1092.** Mitrović A Lj, Radosavljević JS, Prokopijević M, Spasojević D, Kovačević J, Prodanović O, Todorović B, Matović B, Stanković M, Maksimović V, Mutavdžić D, Skočić M, Pešić M, Prokić L, Radotić K. Cell wall response to UV radiation in needles of *Picea omorika*. *Plant Physiology and Biochemistry* 161, 176–190, 2021, @2021 [Линк](#)
- 1093.** Roslan HA, Yien Yin FC, Fong SS, Fong A, Chong J, Husaini A (2021) Effects of Short Term UVB and UVC Irradiation on Hydroxyphenylpyruvate Reductase Expression and Rosmarinic Acid Accumulation in *Orthosiphon aristatus*. *Science & Technology Asia*, 26(2), 155-168., @2021 [Линк](#)
- 1094.** Shah JN , RPadhye, RD Pachauri (2021) Studies on UV Protection and Antimicrobial Functionality of Textiles, *Journal of Natural Fibers*, 1-12, DOI:10.1080/15440478.2021.1932678, @2021 [Линк](#)
- 1095.** Sytar O, Zivcak M, Brestic M, Toutouchi PM, Allakhverdiev SI (2021) Plasticity of the Photosynthetic Energy Conversion and Accumulation of Metabolites in Plants in Response to Light Quality. In: Shen JR., Satoh K., Allakhverdiev S.I. (eds) *Photosynthesis: Molecular Approaches to Solar Energy Conversion. Advances in Photosynthesis and Respiration (Including Bioenergy and Related Processes)*, vol 47. Springer, Cham. [https://doi.org/10.1007/978-3-030-67407-6\\_20](https://doi.org/10.1007/978-3-030-67407-6_20), @2021 [Линк](#)
- 1096.** Kaducová M, Eliašová A, Trush K, Bačovčinová M, Sklenková K, Paľove-Balang P. Accumulation of isoflavonoids in *Lotus corniculatus* after UV-B irradiation. *Theoretical and Experimental Plant Physiology* (2022)34(1), 53-62. <https://doi.org/10.1007/s40626-021-00228-8>, @2022 [Линк](#)
- 1097.** Karakas FP, Sahin G, Turker AU, Verma SK (2022) Impacts of heavy metal, high temperature, and UV radiation exposures on *Bellis perennis* L.(common daisy): Comparison of phenolic constituents and antioxidant potential (enzymatic and non-enzymatic). *South African Journal of Botany*, 147, 370-379. <https://doi.org/10.1016/j.sajb.2022.01.034>, @2022 [Линк](#)
- 1098.** Parvin K, Nahar K, Mohsin SM, Mahmud JA, Fujita M, Hasanuzzaman M (2022) Plant Phenolic Compounds for Abiotic Stress Tolerance. In Hasanuzzaman, M., Ahammed, G.J., Nahar, K. (eds) *Managing Plant Production Under Changing Environment*. Springer, Singapore , 193-237. [https://doi.org/10.1007/978-981-16-5059-8\\_8](https://doi.org/10.1007/978-981-16-5059-8_8), @2022 [Линк](#)
- 1099.** Uivarosi V, Munteanu AC, Badea M, Olar R (2022) Metal Complexes of Plant Secondary Metabolites with Therapeutic Potential. In *Plant Secondary Metabolites*, Springer, Singapore, pp. 281-327. DOI: 10.1007/978-981-16-4779-6\_9, @2022 [Линк](#)
- 1100.** Awang MA, Nik Mat Daud NNN, Mohd Ismail NI, Abdullah FI, Benjamin MAZ. A Review of *Dendrophthoe pentandra* (Mistletoe): Phytomorphology, Extraction Techniques, Phytochemicals, and Biological Activities. *Processes*. 2023; 11(8):2348. <https://doi.org/10.3390/pr11082348>, @2023 [Линк](#)
- 1101.** Ayesha S, Z. Abideen, G. Haider, F. Zulfiqar, A. El-Keblawy, A. Rasheed, K.H.M. Siddique, M. B. Khan, E. Radicetti, 2023. Enhancing sustainable plant production and food security: Understanding the mechanisms and impacts of electromagnetic fields. *Plant Stress*, Vol 9, September 2023, 100198, @2023 [Линк](#)

1102. da Silva Santos É, Cabral MRP, da Silva TFO, de Oliveira AJB, da Silva Machado MdFP, Mangolin CA, Gonçalves RAC (2023) Improvement of phenolic compounds production in callus cultures of *Cereus hildmannianus* (K.) Schum. by elicitation. *Plant Cell Tiss Organ Cult* 153, 37–51 (2023). <https://doi.org/10.1007/s11240-022-02438-7>, @2023 [Линк](#)
1103. Singh P, Singh A, Choudhary KK (2023) Revisiting the role of phenylpropanoids in plant defense against UV-B stress. *Plant Stress*, 100143. <https://doi.org/10.1016/j.stress.2023.100143>, @2023 [Линк](#)
1104. Thakur K, Kumari C, Zadokar A, Sharma P, Sharma R (2023) Physiological and omics-based insights for underpinning the molecular regulation of secondary metabolite production in medicinal plants: UV stress resilience. *Plant Physiology and Biochemistry*, 204, 108060. <https://doi.org/10.1016/j.plaphy.2023.108060>, @2023 [Линк](#)
1105. Wu J, Sun L, Lin L (2023) Dyeing of silk with extract from *Coreopsis tinctoria*. *Pigment & Resin Technology*. 2023 Oct 20., @2023 [Линк](#)

18. Todorova, D, Sergiev, I, Alexieva, V. Application of natural and synthetic polyamines as growth regulators to improve the freezing tolerance of winter wheat (*Triticum aestivum* L.). *Acta Agronomica Hungarica*, 60, 1, Akadémiai Kiadó, 2012, ISSN:0238-0161, 1-10

Цитира се в:

1106. Torabian S, MR Shakiba, ADM Nasab, M Toorchi (2018) Exogenous Spermidine Affected Leaf Characteristics and Growth of Common Bean Under Water Deficit Conditions. *Communications in Soil Science and Plant Analysis* 49(11) 1289-1301., @2018 [Линк](#)
1107. Trebichalský, P., Bajčan, D., Harangozo, L., Tóth, T., Stanovič, R. (2019) The effect of increasing doses of foliar applied regulators of polyamine biosynthesis in mixture with triazine herbicide on formation of spring barley biomass. *Journal of Microbiology, Biotechnology & Food Sciences* . 8 (4), 995-998., @2019 [Линк](#)

19. Todorova, D, Sergiev, I, Moskova, I, Alexieva, V, Hall, M. Oxidative stress provoked by low and high temperatures in wild type and ethylene-insensitive mutant *eti5* of *Arabidopsis thaliana*. *Oxidation Communications*, 35, 3, SciBulCom Ltd. i, 2012, ISSN:0209-4541, 651-661. ISI IF:0.507

Цитира се в:

1108. Begara-Morales J., Sánchez-Calvo B., Gómez-Rodríguez M., Chaki M., Valderrama R., Mata-Pérez C., López-Jaramillo J., Corpas F., Barroso J., "Short-Term Low Temperature Induces Nitro-Oxidative Stress that Dereglates the NADP-Malic Enzyme Function by Tyrosine Nitration in *Arabidopsis thaliana*", *Antioxidants* 8 (10): 448 (2019), @2019 [Линк](#)

---

2013

---

20. Todorova D, Katerova Z, Shopova E, Nikolova A, Georgieva N, Sergiev I, Mapelli S. Polyamine spermine protects young pea plants against Ultraviolet-C radiation. *Biotechnology & Biotechnological Equipment*, 27, 3, Taylor and Francis, 2013, ISSN:1310-2818, DOI:10.5504/BBEQ.2013.0012, 3798-3802. JCR-IF (Web of Science):0.379

Цитира се в:

1109. Hendawey MH, Abdel Raheem EA, Kamel HA, Khalf allah GM, Mahmoud, Noura E. (2018) "Assessment of the contribution of exogenous polyamines for water stress tolerance in Faba Bean." *Bioscience Research*, 15(2)956-966, @2018 [Линк](#)
1110. Jantaro S, W Baebprasert, A Incharoensakdi (2018) External spermine prevents UVA-induced damage of *Synechocystis* sp. PCC 6803 via increased catalase activity and decreased H<sub>2</sub>O<sub>2</sub> and malonaldehyde levels. *Annals of Microbiology* 68(10), 697–704., @2018 [Линк](#)
1111. Alqurashi M (2023) Functions of polyamines in the regulation of abiotic stress tolerance in plants. *Applied Ecology and Environmental Research* 21(5):4977-4989. [http://dx.doi.org/10.15666/aer/2105\\_49774989](http://dx.doi.org/10.15666/aer/2105_49774989), @2023 [Линк](#)

21. **Sergiev, I, Todorova, D, Moskova, I, Georgieva, N, Nikolova, A, Simova, S, Polizoev, D, Alexieva, V.** Protective effect of humic acids against heavy metal stress in triticale. *Comptes rendus de l'Académie bulgare des Sciences*, 66, 1, BAS, 2013, ISSN:1310-1331, 53-60. JCR-IF (Web of Science):0.284

Цитира се в:

1112. Pittarello, M., J. G. Busato, P. Carletti, L. B. Dobbss, 2017. Possible developments for ex situ phytoremediation of contaminated sediments, in tropical and subtropical regions – Review. *Chemosphere*, 182:707-719. DOI: 10.1016/j.chemosphere.2017.04.093., @2017 [Линк](#)
1113. Boysan-Canal S, MA Bozkurt, S Kipcak (2018) The effects of organic amendments on cadmium uptake of spinach (*Spinacia oleracea* L.) and plant growth under cadmium toxicity. *Fresenius Environmental Bulletin* 27(5), 3174-3179., @2018 [Линк](#)
1114. Dobbss LB, TC dos Santos, M Pittarello, SB de Souza, AC Ramos, JG Busato (2018) Alleviation of iron toxicity in *Schinus terebinthifolius* Raddi (Anacardiaceae) by humic substances. *Environmental Science and Pollution Research* 25(10), 9416–9425., @2018 [Линк](#)
1115. Ozfidan-Konakci C, Eyildiztugay, M Bahtiyar, M Kucukoduk (2018) The humic acid-induced changes in the water status, chlorophyll fluorescence and antioxidant defense systems of wheat leaves with cadmium stress. *Ecotoxicology and Environmental Safety* 155, 66-75., @2018 [Линк](#)
1116. Canellas, L.P., N. O. A. Canellas, L. E. S. da S. Irineu, F. L. Olivares, A. Piccolo, 2020. Plant chemical priming by humic acids. *Chem. Biol. Technol. Agric.* 7:12., @2020 [Линк](#)
1117. Yigider E, MS Taspinar, M Aydin, G Agar (2021) Humic acid effects on retrotransposon polymorphisms caused by zinc and iron in the maize (*Zea mays* L.) genome. *Cereal Research Communications*. 49, pages 193–198. <https://doi.org/10.1007/s42976-020-00111-3>, @2021 [Линк](#)
1118. Yildirim, E., M. Ekinci, M. Turan, G. Ađar, A. Dursun, R. Kul, Z. Alim, S. Argin, 2021. Humic + Fulvic acid mitigated Cd adverse effects on plant growth, physiology and biochemical properties of garden cress. *Scientific Reports*, 11: 8040, @2021 [Линк](#)
1119. Chen J, K Li, A Hu, Q Fu, H He, D Wang, J Shi, W Zhang (2022) The molecular characteristics of DOMs derived from bio-stabilized wastewater activated sludge and its effect on alleviating Cd-stress in rice seedlings (*Oryza sativa* L.). *Science of The Total Environment*, 845, 157157. <https://doi.org/10.1016/j.scitotenv.2022.157157>, @2022 [Линк](#)
1120. El-Sayed S, NG Abd El-Aziz, AAM Mazhar (2022) Antioxidant Isoenzymes, Chemical Constituents and Growth Parameters of Cadmium-Stressed *Dimorphotheca ecklonis* Plant and Affected by Humic Acid. *Egypt. J. Chem.*, 65(12), 519-532. <https://doi.org/10.21608/ejchem.2022.119441.5370>, @2022 [Линк](#)
1121. Radi AA, DA Abdel-Wahab, AM Hamada, FA Farghaly. The Impact of Humic Acid and Moringa Treatments on Enhancing Arsenic Tolerance in Broccoli Plants: Modulation of Sulphur Components and Enzymatic Antioxidant Defense. *J Soil Sci Plant Nutr* (2023)., @2023 [Линк](#)
22. Ivanov, S, **Shopova, E**, Kerchev, P, **Sergiev, I**, Miteva, L, **Polizoev, D, Alexieva, V.** Long-term impact of sublethal atrazine perturbs the redox homeostasis in pea (*Pisum sativum* L.) plants. *Protoplasma*, 250, Springer, 2013, DOI:10.1007/s00709-012-0378-6, 95-102. JCR-IF (Web of Science):3.4

Цитира се в:

1122. Qi Y, B Yan, G Fu, X Guan, L Du, J Li (2017) - Germination of Seeds and Seedling Growth of *Amaranthus retroflexus* L. Following Sublethal Exposure of Parent Plants to Herbicides. *Scientific Reports*, 7: 157, DOI:10.1038/s41598-017-00153-4, @2017
1123. Afanasyeva LV, TA Ayushina (2019) Accumulation of heavy metals and biochemical responses in Siberian larch needles in urban area. *Ecotoxicology*, 28(5): 578–588., @2019 [Линк](#)
1124. Agoun-Bahar S, R Djebbar, T Nait Achour, O Abrous-Belbachir (2019) Soil-to-plant transfer of naphthalene and its effects on seedlings pea (*Pisum sativum* L.) grown on contaminated soil. *Environmental Technology*, 40(28), 3713-3723., @2019 [Линк](#)

1125. Khosropour, E., Attarod, P., Shirvany, A., Pypker, T. G., Bayramzadeh, V., Hakimi, L., Moeinaddini, M. Response of *Platanus orientalis* leaves to urban pollution by heavy metals, *Journal of Forestry Research*, 30(4), 1437–1445., @2019 [Линк](#)
1126. Yildiztekin M, MA Ozler, S Nadeem, AL Tuna (2019) Investigations on the effects of commonly used pesticides on tomato plant growth. *Fresenius Environmental Bulletin*, 28(1), 376-382., @2019 [Линк](#)
1127. Haque KMS, JA Howitt, M Dyall-Smith, LA Weston, PL Eberbach (2022) What levels of soil Mn<sup>2+</sup> can pulse and legume crops tolerate when grown in rotation with paddy rice? *Journal of Plant Nutrition*, DOI: 10.1080/01904167.2022.2067768, @2022 [Линк](#)
1128. Petrova S, Velcheva I, Nikolov B, Vasileva T, Bivolarski V (2022) Antioxidant Responses and Adaptation Mechanisms of *Tilia tomentosa* Moench, *Fraxinus excelsior* L. and *Pinus nigra* J. F. Arnold towards Urban Air Pollution. *Forests.*, 13(10):1689. <https://doi.org/10.3390/f13101689>, @2022 [Линк](#)
1129. Zandi P, E Schnug. "Reactive oxygen species, antioxidant responses and implications from a microbial modulation perspective." *Biology* 11.2 (2022): 155., @2022 [Линк](#)
1130. Boulahia, K., Ould said, C. & Abrous-Belbachir, O. Exogenous Application of Salicylic Acid Improve Growth and Some Physio-Biochemical Parameters in Herbicide Stressed *Phaseolus vulgaris* L.. *Gesunde Pflanzen* 75, 2301–2318 (2023)., @2023 [Линк](#)
1131. Shamsul Haque KM, Julia A. Howitt, Mike Dyall-Smith, Leslie A. Weston & Philip L. Eberbach (2023) What levels of soil Mn<sup>2+</sup> can pulse and legume crops tolerate when grown in rotation with paddy rice?, *Journal of Plant Nutrition*, 46:7, 1329-1343, DOI: 10.1080/01904167.2022.2067768, @2023 [Линк](#)

23. **Todorova D, Katerova Z, Sergiev I, Alexieva V.** Role of Polyamines in Alleviating Salt Stress. In: *Ecophysiology and Responses of Plants under Salt Stress* (Eds. Ahmad P, Sarwat M, Sharma S), Springer Science+Business Media, 2013, ISBN:978-1-4614-4747-4, DOI:10.1007/978-1-4614-4747-4\_13, 512, 355-379

Цитира се в:

1132. Saha J, K Giri (2017) Molecular phylogenomic study and the role of exogenous spermidine in the metabolic adjustment of endogenous polyamine in two rice cultivars under salt stress. *Gene* 609, 88–103. <http://dx.doi.org/10.1016/j.gene.2017.02.001>, @2017 [Линк](#)
1133. Du J, S Guo, J Sun, S Shu (2018) Proteomic and physiological analyses reveal the role of exogenous spermidine on cucumber roots in response to Ca(NO<sub>3</sub>)<sub>2</sub> stress. *Plant Molecular Biology* 97(1–2), 1–21., @2018 [Линк](#)
1134. Kolupaev, Yu. E., A. I. Kokorev, T. O. Yastreb, E. I. Horielova. 2019. Hydrogen peroxide as a signal mediator at inducing heat resistance in wheat seedlings by putrescine. *Ukr. Biochem. J.*, 91 (6): 103-111., @2019 [Линк](#)
1135. Trebichalský, P., Bajčan, D., Harangozo, L., Tóth, T., Stanovič, R. 2019. The effect of increasing doses of foliar applied regulators of polyamine biosynthesis in mixture with triazine herbicide on formation of spring barley biomass. *Journal of Microbiology, Biotechnology & Food Sciences* . 8 (4), 995-998. doi:10.15414/jmbfs.2019.8.4.995-998., @2019 [Линк](#)
1136. Shao A, Sun Z, Fan S, Xu X, Wang W, Amombo E, Yin Y, Li X, Wang G, Wang H, Fu J. 2020. Moderately low nitrogen application mitigate the negative effects of salt stress on annual ryegrass seedlings. *PeerJ* 8:e10427, @2020 [Линк](#)
1137. Thiem D, J Tyburski, M Gołębiewski, K Hryniewicz (2020) Halotolerant fungi stimulate growth and mitigate salt stress in *Alnus glutinosa* Gaertn. *Dendrobiology*, 83, 30–42, @2020 [Линк](#)
1138. Gupta S, Schillaci M, Walker R, Smith PM, Watt M, Roessner U. Alleviation of salinity stress in plants by endophytic plant-fungal symbiosis: current knowledge, perspectives and future directions. *Plant and Soil* 461.1 (2021): 219-244., @2021 [Линк](#)
1139. Anwar A, Zhang S, He L, Gao J (2022) Understanding the physiological and molecular mechanism of salinity stress tolerance in plants. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 50(4), 12959. <https://doi.org/10.15835/nbha50312959>, @2022 [Линк](#)

- 1140.** Bouabdallah M, Mahmoudi H, Ghnaya T, Hannachi H, Taheri A, Ouerghi Z, Chaffei-Haouari C H I R A Z (2022) Spermidine as an elevator of salinity induced stress on two varieties of *Triticum durum* desf. (Karim and Razzek). *Pak. J. Bot*, 54(3), 771-779. DOI: [http://dx.doi.org/10.30848/PJB2022-3\(3\)](http://dx.doi.org/10.30848/PJB2022-3(3)), @2022 [Линк](#)
- 1141.** Karimi M, Pakdel MH, Bali lashaki K, Soorni A (2022) Identification of hub salt-responsive genes in *Cucumis sativus* using a long non-coding RNA and mRNA interaction network. *Hortic. Environ. Biotechnol.* 63, pages 539–556 . <https://doi.org/10.1007/s13580-021-00418-y>, @2022 [Линк](#)
- 1142.** Kolupaev Yu E, Kokorev AI, Dmitriev AP (2022) Polyamines: participation in cellular signaling and plant adaptation to the action of abiotic stressors. *Cytol. Genet.* 56, 148–163. <https://doi.org/10.3103/S0095452722020062>, @2022 [Линк](#)
- 1143.** Korbas A, Kubiś J, Rybus-Zajac M, Chadzinikolau T. (2022) Spermidine Modify Antioxidant Activity in Cucumber Exposed to Salinity Stress. *Agronomy* 12(7):1554. <https://doi.org/10.3390/agronomy12071554>, @2022 [Линк](#)
- 1144.** Amiri H, Banakar MH, Ranjbar GH, Ardakani MRS, Omidvari M (2023) Exogenous application of spermidine and methyl jasmonate can mitigate salt stress in fenugreek (*Trigonella foenum-graecum* L.). *Industrial Crops and Products*, 199, 116826., @2023 [Линк](#)

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## 2014

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- 24. Moskova, I, Todorova, D, Alexieva, V, Sergiev, I.** Protective Effect of Hydrogen Peroxide against Paraquat Toxicity in Young Pea Plants: Possible Role of Endogenous Polyamines.. *American Journal of Plant Science*, 5, Scientific Research Publishing, 2014, ISSN:2158-2742, DOI:DOI: 10.4236/ajps.2014.522356, 3408-3416

Цитира се в:

- 1145.** Yu, J., X. Jin, X. Sun, T. Gao, X. Chen, Y. She, T. Jiang, S. Chen, S. Dai, 2017. Hydrogen Peroxide Response in Leaves of Poplar (*Populus simonii* × *Populus nigra*) Revealed from Physiological and Proteomic Analyses. *Int. J. Mol. Sci.* 2017, 18(10), 2085; doi:10.3390/ijms18102085., @2017 [Линк](#)
- 1146.** MAXTON A., P. SINGH, R. SINGH, A.W. SINGH, S.A. MASIH, 2018. EVIDENCE OF B. CEPACIA, C. FREUNDII AND S. MARCESCENS AS POTENTIAL AGENTS INDUCING INCREASED PLANT GROWTH AND HEAVY METAL (PB, CD, CR) TOLERANCE. *Asian Journal of Microbiology, Biotechnology & Environmental Sciences Paper*, 20, 1, 280-287, @2018 [Линк](#)
- 1147.** LIANG, L.L., CAO, Y.Q., WANG, D., PENG, Y., ZHANG, Y., & LI, Z. (2021). Spermine alleviates heat-induced senescence in creeping bentgrass by regulating water and oxidative balance, photosynthesis, and heat shock proteins. *Biologia plantarum*, 65, Article 184-192, @2021 [Линк](#)

- 25. Todorova D, Sergiev I, Moskova I, Katerova Z, Georgieva N, Alexieva V, Brambilla I, Mapelli S.** Biochemical responses of triticale plants treated with UV-B irradiation and nutrient solution enriched with humic acids. *Turkish Journal of Botany*, 38, TUBITAK, 2014, ISSN:1303-6106, DOI:10.3906/bot-1312-52, 747-753. SJR (Scopus):0.564

Цитира се в:

- 1148.** Kim Y-H , AL Khan, M Waqas, I-J Lee (2017) Silicon Regulates Antioxidant Activities of Crop Plants under Abiotic-Induced Oxidative Stress: A Review. *Front Plant Sci.* 2017; 8: 510. doi: 10.3389/fpls.2017.00510, @2017 [Линк](#)
- 1149.** Tripathi, DK, SS Shweta, V Yadav, N Arif, S Singh, NK Dubey, DK Chauhan, 2017. Silicon: A Potential Element to Combat Adverse Impact of UV-B in Plants. In: Singh, V. P., S. Singh, S. M. Prasad, P. Parihar (Eds.:) *UV-B Radiation: From Environmental Stressor to Regulator of Plant Growth*, Publisher: John Wiley & Sons, pp.175-196 (Book). ISBN: 978-1-119-14360-4, @2017 [Линк](#)
- 1150.** Yigider E, Taspinar MS, Aydin M, Agar G. 2020. Cobalt-induced retrotransposon polymorphism and humic acid protection on maize genome. *Biologia Futura*. <https://doi.org/10.1007/s42977-020-00001-z>, @2020 [Линк](#)

**1151.** Hossain A., Islam T (2021) 5 - Silicon and selenium transporters in plants under abiotic stresses. In: Aryadeep Roychoudhury, Durgesh Kumar Tripathi, Rupesh Deshmukh (Eds.), Metal and Nutrient Transporters in Abiotic Stress, Pages 87-116. ISBN 978-0-12-817955-0, Academic Press, <https://doi.org/10.1016/B978-0-12-817955-0.00005-3>, @2021 [Линк](#)

**26. Todorova D, Katerova Z, Sergiev I, Alexieva V.** Ch. 11 Polyamines - Involvement in Plant Stress tolerance and Adaptation. In: Plant Adaptation to Environmental change (Eds. Anjum NA, Gill SS, Gill R), CAB International, 2014, ISBN:978-1-78064-273-4, DOI:10.1079/9781780642734.0194, 344, 194-221

Цитира се в:

**1152.** Machinandiarena, M.F., Oyarburo, N.S., Daleo, G.R., Andreu, A. B., Olivieri F. P. . The reinforcement of potato cell wall as part of the phosphite-induced tolerance to UV-B radiation. Biol Plant. 2018, 62 (2): 388–394., @2018 [Линк](#)

**1153.** Matsunami M, K Toyofuku, N Kimura, A Ogawa (2020) Osmotic Stress Leads to Significant Changes in Rice Root Metabolic Profiles between Tolerant and Sensitive Genotypes. Plants, 2020, 9, 1503, @2020 [Линк](#)

**1154.** Farsaraei S, Mehdizadeh L, Moghaddam M. Seed Priming with Putrescine Alleviated Salinity Stress During Germination and Seedling Growth of Medicinal Pumpkin. Journal of Soil Science and Plant Nutrition, 21, 1782–1792. <https://doi.org/10.1007/s42729-021-00479-z>, @2021 [Линк](#)

**1155.** Rakesh B, WN Sudheer, P Nagella (2021) Role of polyamines in plant tissue culture: An overview. Plant Cell, Tissue and Organ Culture (PCTOC) 145, 487–506. <https://doi.org/10.1007/s11240-021-02029-y>, @2021 [Линк](#)

**1156.** Spormann S, Soares C, Teixeira J, Fidalgo F (2021) Polyamines as key regulatory players in plants under metal stress—A way for an enhanced tolerance. Annals of Applied Biology, 178(2), 209-226. <https://doi.org/10.1111/aab.12660>, @2021 [Линк](#)

**1157.** Malik A, Yadav P, Singh S (2022) Role of polyamines in heavy metal stressed plants. Plant Physiol. Rep. <https://doi.org/10.1007/s40502-022-00657-w>, @2022 [Линк](#)

**1158.** Ribeiro YRdS, VPM Aragão, R Carrari-Santos, KR de Sousa, AF Macedo, EIS Floh, V Silveira, C Santa-Catarina. 2, 3, 5-triodobenzoic acid affects the in vitro propagation of Cedrela fissilis Vell. (Meliaceae) through alterations in endogenous polyamine and indol-3-acetic acid levels and the proteomic profile. Plant Cell Tiss Organ Cult 156, 25 (2023)., @2023 [Линк](#)

---

2015

---

**27. Todorova D, Katerova Z, Alexieva V, Sergiev I.** Polyamines – Possibilities for application to increase plant tolerance and adaptation capacity to stress. Genetics and Plant Physiology, 5, 2, Marin Drinov - Bulgarian Academy of Sciences, 2015, ISSN:1314-5770, 123-144

Цитира се в:

**1159.** Trebichalský P, Tóth T, Bajčan D, Harangozo L, Vollmannová A (2017) Hormonal changes in spring barley after triazine herbicide treatment and its mixtures of regulators of polyamine biosynthesis. Potravinárstvo Slovak Journal of Food Sciences, 11(1), 156-161, doi: <https://dx.doi.org/10.5219/719>, @2017 [Линк](#)

**1160.** Zafari S, M Sharifi, NA Chashmi (2017) - Nitric oxide production shifts metabolic pathways toward lignification to alleviate Pb stress in Prosopis farcta. Environmental and Experimental Botany, 141, 41-49., @2017 [Линк](#)

**1161.** Raval, S.S., Mahatma, M.K., Chakraborty, K. Bishi, S.K., Singh, A. L., Rathod, K. J., Jadav, J. K., Sanghani, J. M., Mandavia, M. K., Gajera, H. P., Golakiyaet, B. A. (2017). Metabolomics of groundnut (Arachis hypogaea L.) genotypes under varying temperature regimes. Plant Growth Regul .84(3): 493–505, @2018 [Линк](#)



- 1162.** Tiwari S, M Agrawal (2018) Effect of ozone on physiological and biochemical processes of plants. In: Tropospheric Ozone and its Impacts on Crop Plants. Springer, Cham, [https://doi.org/10.1007/978-3-319-71873-6\\_3](https://doi.org/10.1007/978-3-319-71873-6_3), @2018 [Линк](#)
- 1163.** Hussain A., Nazir F., Fariduddin Q., 2019. Polyamines (spermidine and putrescine) mitigate the adverse effects of manganese induced toxicity through improved antioxidant system and photosynthetic attributes in Brassica juncea. Chemosphere, 236, 124830, @2019 [Линк](#)
- 1164.** Roumani, A., A. Biabani, A.R. Karizaki, E.G. Alamdari, A. Gholizadeh. 2019. Effects of salicylic acid and spermine foliar application on some morphological and physiological characteristics of isabgol (*Plantago ovata* Forsk) under water stress. Agronomy Research 17(4), 1735–1749, @2019 [Линк](#)
- 1165.** Sil, P., Das, P., Biswas, S., Mazumdar, A., Biswas, A. K. 2019. Modulation of photosynthetic parameters, sugar metabolism, polyamine and ion contents by silicon amendments in wheat (*Triticum aestivum* L.) seedlings exposed to arsenic. Environmental Science and Pollution Research, 26(13), 13630–13648., @2019 [Линк](#)
- 1166.** Alcázar R, Bueno M, Tiburcio AF (2020) Polyamines: Small Amines with Large Effects on Plant Abiotic Stress Tolerance. Cells, 9, 2373., @2020 [Линк](#)
- 1167.** Sani Q, Maqsood W, Munir F, Hussain A, Amir R (2020) Plant Signaling Under Adverse Environment. In: Hasanuzzaman M. (eds) Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives I. Springer, Singapore, p. 605-624, @2020 [Линк](#)
- 1168.** Zhong, M, Wang, Y, Shu, S, Sun, J, Guo, S. 2020, Ectopic expression of CsTGase enhances salt tolerance by regulating polyamine biosynthesis, antioxidant activities and Na<sup>+</sup>/K<sup>+</sup> homeostasis in transgenic tobacco. Plant Science 296, 110492, @2020 [Линк](#)
- 1169.** Piñero MC, Otálora G, Collado J, López-Marín J, Amor FM. "Foliar application of putrescine before a short-term heat stress improves the quality of melon fruits (*Cucumis melo* L.)". Journal of the Science of Food and Agriculture. 101(4), 1428-1435(8), 2021, @2021 [Линк](#)
- 1170.** Basit F, Ulhassan Z, Mou Q, Nazir MM, Hu J, Hu W, Song W, Sheteiwy MS, Zhou W, Bhat JA, Jeddi K, Hessini K, Guan Y (2022) Seed priming with nitric oxide and/or spermine mitigate the chromium toxicity in rice (*Oryza sativa*) seedlings by improving the carbon-assimilation and minimising the oxidative damages. Functional Plant Biology(2022). <https://doi.org/10.1071/FP21268>, @2022 [Линк](#)
- 1171.** Czerwoniec, P. 2022. New plant resistance inducers based on polyamines. Open Chemistry. 20 (1), 1591-1600, @2022 [Линк](#)
- 1172.** Ebeed, HT (2022) Genome-wide analysis of polyamine biosynthesis genes in wheat reveals gene expression specificity and involvement of STRE and MYB-elements in regulating polyamines under drought. BMC Genomics 23.1, 1-21. <https://doi.org/10.1186/s12864-022-08946-2>, @2022 [Линк](#)
- 1173.** Liu Y, Guo Z, Shi H (2022) Rhizobium Symbiosis Leads to Increased Drought Tolerance in Chinese Milk Vetch (*Astragalus sinicus* L.). Agronomy, 12(3), 725. <https://doi.org/10.3390/agronomy12030725>, @2022 [Линк](#)
- 1174.** Shao J, Huang K, Batool M, Idrees F, Afzal R, Haroon M, Noushahi HA, Wu W, Hu Q, Lu X, Huang G, Aamer M, Hassan MU, El Sabagh A (2022) Versatile roles of polyamines in improving abiotic stress tolerance of plants. Front Plant Sci. 13:1003155. doi: 10.3389/fpls.2022.1003155, @2022 [Линк](#)
- 1175.** Yao J, Geng Y, Liu Y, An Y, Huang L, Zeng, Lu M (2022) Effects of S-Adenosylmethionine Decarboxylase Gene on Drought Tolerance of *Populus alba* × *P. glandulosa*. Scientia Silvae Sinicae, 2, 125 -132 . DOI: 10.11707/j.1001-7488.20220213, @2022 [Линк](#)
- 1176.** Borromeo I, Domenici F, Del Gallo M, Forni C (2023) Role of Polyamines in the Response to Salt Stress of Tomato. Plants. 12(9)1855. <https://doi.org/10.3390/plants12091855>, @2023 [Линк](#)
- 1177.** Jangra A, Chaturvedi S, Kumar N, Singh H, Sharma V, Thakur M, Tiwari S, Chhokar V (2023) Polyamines: The gleam of next-generation plant growth regulators for growth, development, stress mitigation, and hormonal crosstalk in plants—A systematic review. Journal of Plant Growth Regulation, 42(8), 5167-5191. <https://doi.org/10.1007/s00344-022-10846-4>, @2023 [Линк](#)

- 1178.** Saeed F, Chaudhry UK., Raza A, Charagh S, Bakhsh A, Bohra A , Ali S, Chitikineni A, Saeed Y, Visser RGF and Siddique, KHM, Varshney RK (2023). Developing future heat-resilient vegetable crops. *Functional and Integrative Genomics*, 23(1), 47., @2023 [Линк](#)
- 1179.** Sharma P, Lakra N, Ahlawat Y, Zaid A, Abd-ElGawad AM, Elansary HO, Gupta A (2023) Putrescine mitigates high temperature effects by modulating morpho-physiological and biochemical attributes in *Brassica juncea* seedlings. *Agronomy*. 2023; 13(7):1879. <https://doi.org/10.3390/agronomy13071879>, @2023 [Линк](#)
- 1180.** Wang WJ, Shi SL, He L, Wu B, Liu CC (2023) Accumulation and functions of polyamines in plants under drought stress. *Acta Prataculturae Sinica*, 32, 186-202. (In Chinese), @2023 [Линк](#)

---

**2016**

---

- 28. Todorova D, Katerova Z, Shopova E, Jodinskiene M, Jurkoniene S, Sergiev I.** Responses of pea plants to heat stress and spermine treatment. *Zemdirbyste-Agriculture*, 103, 1, LITHUANIAN RESEARCH CENTRE AGRICULTURE & FORESTRY, 2016, ISSN:1392-3196, DOI:10.13080/z-a.2016.103.013, 99-106. JCR-IF (Web of Science):0.579

Цитируе се в:

- 1181.** Bhandari K, Sharma KD, Hanumantha Rao B, Kadambot HM (2017) Temperature sensitivity of food legumes: a physiological insight. *Acta Physiol Plant* 39: 68. doi:10.1007/s11738-017-2361-5, @2017 [Линк](#)
- 1182.** Farooq M, Nadeem F , Gogoi N , Ullah A , Alghamdi SS , Nayyar H, Siddique KHM. (2017) Heat stress in grain legumes during reproductive and grain-filling phases. *Crop and Pasture Science*. <https://doi.org/10.1071/CP17012>, @2017 [Линк](#)
- 1183.** Khajuria A, Sharma N, Bhardwaj R, Ohri P (2018) Emerging Role of Polyamines in Plant Stress Tolerance. *Current Protein and Peptide Science* 19(11), 1114-1123., @2018 [Линк](#)
- 1184.** Sadeghipour O. 2019. Polyamines protect mung bean [*Vigna radiata* (L.) Wilczek] plants against drought stress. *Biologia futura*, 70(1), pp. 71–78, , @2019 [Линк](#)
- 1185.** Seifi HS and Shelp BJ (2019) Spermine Differentially Refines Plant Defense Responses Against Biotic and Abiotic Stresses. *Front. Plant Sci.* 10:117., @2019 [Линк](#)
- 1186.** Ali Q, S Shahid, N Nazar, Al Hussain, S Ali, SAS Chatha, R Perveen, J Naseem, MZ Haider, B Hussain, SM Hussain (2020) Use of Phytohormones in Conferring Tolerance to Environmental Stress. In: Hasanuzzaman M. (eds) *Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives II*. Springer, Singapore, pp 245-355, @2020 [Линк](#)
- 1187.** Li Z, Cheng B, Peng Y, Zhang Y (2020) Adaptability to abiotic stress regulated by  $\gamma$ -aminobutyric acid in relation to alterations of endogenous polyamines and organic metabolites in creeping bentgrass. *Plant Physiology and Biochemistry*, 157, 185-194, @2020 [Линк](#)
- 1188.** Liang LL, Cao YQ, Wang D, Peng Y, Zhang Y, Li Z (2021) Spermine alleviates heat-induced senescence in creeping bentgrass by regulating water and oxidative balance, photosynthesis, and heat shock proteins. *Biologia plantarum*, 65, 184-192. DOI: 10.32615/bp.2021.008, @2021 [Линк](#)
- 1189.** Bello, A.S., Ben-Hamadou, R., Hamdi, H., Saadaoui, I. and Ahmed, T. "Application of Cyanobacteria (*Roholtiella* sp.) Liquid Extract for the Alleviation of Salt Stress in Bell Pepper (*Capsicum annum* L.) Plants Grown in a Soilless System." *Plants* 11 (1), 104, 2022., @2022 [Линк](#)
- 1190.** Patel K, Bidalia A, Tripathi I, Gupta Y, Arora P, Rao K S (2022) Effect of heat stress on wild type and A7a knockout mutant *Arabidopsis thaliana* plants. *Vegetos*, 35(1), 168-178. <https://doi.org/10.1007/s42535-021-00272-4>, @2022 [Линк](#)
- 1191.** Ali M, Ohri P (2023) Deciphering the synergistic effect of Jasmonic acid and Spermine in mitigating root-knot nematode stress in tomato plants through enhancing growth and activity of antioxidant enzymes. *South African Journal of Botany*, 161, 21-35., @2023 [Линк](#)

**1192.** Devi J, Sagar V, Mishra GP, Jha PK, Gupta N, Dubey RK, Singh PM, Behera TK, Prasad PV (2023) Heat stress tolerance in peas (*Pisum sativum* L.): Current status and way forward. *Frontiers in Plant Science*, 13, 1108276. <https://doi.org/10.3389/fpls.2022.1108276>, @2023 [Линк](#)

**1193.** El-Beltagi HS, El-Yazied AA, El-Gawad HGA, Kandeel M, Shalaby TA, Mansour AT, Al-Harbi NA, Al-Qahtani SM, Alkhateeb AA, Ibrahim MFM, Synergistic Impact of Melatonin and Putrescine Interaction in Mitigating Salinity Stress in Snap Bean Seedlings: Reduction of Oxidative Damage and Inhibition of Polyamine Catabolism. *Horticulturae* 2023, 9, 285. <https://doi.org/10.3390/horticulturae9020285>, @2023 [Линк](#)

**29. Sergiev I., Todorova D., Brankova L., Alexieva V.** Prohexadione-Ca and copper effect on growth and accumulation of endogenous polyamines in pea plants. *Botanica Lithuanica*, 22, 1, De GRUYTER, 2016, ISSN:2029-932X, DOI:10.1515/botlit-2016-0006, 65-71. SJR:0.186

Цитира се в:

**1194.** Ozbay, N., & Hassan, D. A. (2020). Control of transplant height in tomato using plant growth regulator prohexadione calcium. *Acta Horticulturae*, (1273), 337–346. [doi:10.17660/actahortic.2020.1273.44](https://doi.org/10.17660/actahortic.2020.1273.44), @2020 [Линк](#)

---

2017

---

**30. Sergiev I, Todorova D, Katerova Z, Shopova E, Jankauskiene J, Jurkoniene S.** Beneficial effects of auxin-like compounds on pea plants irradiated with UV-C. *Genetics and Plant Physiology*, 7, 3-4, Prof. Marin Drinov Academic Publishing House, 2017, ISSN:1314-6394, 135-146

Цитира се в:

**1195.** Mir AR, H Siddiqui, P Alam, S Hayat (2020) Foliar spray of Auxin/IAA modulates photosynthesis, elemental composition, ROS localization and antioxidant machinery to promote growth of Brassica juncea. *Physiol Mol Biol Plants*, 26, 2503–2520. <https://doi.org/10.1007/s12298-020-00914-y>, @2020 [Линк](#)

**1196.** Çavuşoğlu D, Macar TK, Macar O, Yalçın E, Çavuşoğlu K. Extenuating role of lycopene against 254-nm UV-C radiation-mediated damages in *Allium cepa* L. roots. *Environ Sci Pollut Res* 28, 47429–47438. <https://doi.org/10.1007/s11356-021-14047-6>, @2021 [Линк](#)

**31. Sergiev I, Todorova D, Shopova E, Katerova Z, Jankauskiene J, Jurkoniene S.** Auxin-like compounds act as protectors against UV-b irradiation in garden pea plants. *Botanica Lithuanica*, 23, 2, De Gryuter, 2017, 79-88. SJR:0.186

Цитира се в:

**1197.** Stoyanova-Bakalova E, N Ivanova, D Bakalov, L Gigova (2020) Modifying Effects of Some Plant Hormones on Zucchini Cotyledons Subjected to High Temperature and Excess Copper. *Botanica*, 26(1), 28-39. DOI: <https://doi.org/10.2478/botlit-2020-0003>, @2020 [Линк](#)

**32. Katerova Z, Todorova D, Sergiev I.** Plant Secondary Metabolites and Some Plant Growth Regulators Elicited by UV Irradiation, Light And/Or Shade.. In: Ghorbanpour M., Varma A. (eds) *Medicinal Plants and Environmental Challenges*, Springer, 2017, ISBN:978-3-319-68717-9, DOI:[https://doi.org/10.1007/978-3-319-68717-9\\_6](https://doi.org/10.1007/978-3-319-68717-9_6), 97-121

Цитира се в:

**1198.** Gori, A., Nascimento, L. B., Ferrini, F., Centritto, M., Brunetti, C. (2020) Seasonal and Diurnal Variation in Leaf Phenolics of Three Medicinal Mediterranean Wild Species: What Is the Best Harvesting Moment to Obtain the Richest and the Most Antioxidant Extracts? *Molecules* 25, 956. [doi:10.3390/molecules25040956](https://doi.org/10.3390/molecules25040956), @2020 [Линк](#)

- 1199.** Li Y, D Kong, Y Fu, MR Sussman, H Wu (2020) The effect of developmental and environmental factors on secondary metabolites in medicinal plants. *Plant Physiology and Biochemistry*, 148, 80-89, @2020 [Линк](#)
- 1200.** Warburg S, Yahyaa M, Lahav T, Medina S, Freilich S, Gal S, Palevsky E, Inbar M, Ibdah M. UV-induced citrus resistance to spider mites (*Tetranychus urticae*). *Crop Protection* 144 (2021): 105580., @2021 [Линк](#)
- 1201.** Xiong F, Nie X, Yang L, Wang L, Li J, Zhou G. Non-target metabolomics revealed the differences between *Rh. tanguticum* plants growing under canopy and open habitats. *BMC Plant Biol* 21, 119, 2021, @2021 [Линк](#)
- 1202.** Punetha A, Kumar D, Suryavanshi P, Padalia R, Venkatesha KT (2022) Environmental Abiotic Stress and Secondary Metabolites Production in Medicinal Plants: A Review. *Journal of Agricultural Sciences*, 28(3), 351-362. <https://doi.org/10.15832/ankutbd.999117>, @2022 [Линк](#)
- 1203.** Singla A, R Sharma, R Chhabra, L Vij, P Singh. Influence of Varying Shade Intensities of Green Net on Physiological and Biochemical Components of Different *Ocimum* Species. *Russ J Plant Physiol* 69, 162 (2022)., @2022 [Линк](#)
- 1204.** Marafeli ÉAM, Chibli LA, Rocha JPM, de Assis, RMA, Pinto JEBP, de Pádua RM, Kreis W, Munkert J, Braga FC, Bertolucci SKV (2023) Photoconverting nets affect plant growth and levels of antiviral glucoevatromonoside and total cardenolides in *Digitalis mariana* ssp. *heywoodii* (P. Silva and M. Silva) Hinz. *Industrial Crops and Products*, 204, 117348. <https://doi.org/10.1016/j.indcrop.2023.117348>, @2023 [Линк](#)
- 1205.** Reshi ZA, Ahmad W, Lukatkin AS, Javed SB (2023) From Nature to Lab: A Review of Secondary Metabolite Biosynthetic Pathways, Environmental Influences, and In Vitro Approaches. *Metabolites*. 2023; 13(8):895. <https://doi.org/10.3390/metabo13080895>, @2023 [Линк](#)
- 1206.** Singh P, Singh A, Choudhary KK (2023) Revisiting the role of phenylpropanoids in plant defense against UV-B stress. *Plant Stress*, 100143. <https://doi.org/10.1016/j.stress.2023.100143>, @2023
- 1207.** Thakur K, Kumari C, Zadokar A, Sharma P, Sharma R (2023) Physiological and omics-based insights for underpinning the molecular regulation of secondary metabolite production in medicinal plants: UV stress resilience. *Plant Physiology and Biochemistry*, 204, 108060. <https://doi.org/10.1016/j.plaphy.2023.108060>, @2023 [Линк](#)
- 1208.** Zargar TB, Basal O, Veres S (2023) Improving quality parameters of spinach by adjusting light spectra under moderate water deprivation conditions. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 51(4), 13325-13325., @2023 [Линк](#)

---

## 2018

---

- 33. Sergiev I, Todorova D, Katerova Z, Brambilla I, Mapelli S, Simova S.** Polyamines and amino acids in triticale plants grown on humic acids enriched nutrient solution and treated with UV-B irradiation. *Theoretical and Experimental Plant Physiology*, 30, 2, Springer, 2018, ISSN:2197-0025, DOI:[doi.org/10.1007/s40626-018-0110-9](https://doi.org/10.1007/s40626-018-0110-9), 153-163. SJR (Scopus):0.505, JCR-IF (Web of Science):1.532

Цитира се в:

- 1209.** Felipe, S.H.S., Batista, D.S., Chagas, K., de Freitas Correia, L. N., Silva, T. D., Fortini, E. A., Silva, P. A., Otoni, W. C. (2019). Accessions of Brazilian-ginseng (*Pfaffia glomerata*) with contrasting anthocyanin content behave differently in growth, antioxidative defense and 20-hydroxyecdysone levels under UV-B radiation. *Protoplasma*, 256, (6): 1557-1571., @2019 [Линк](#)
- 1210.** Ramazani SHR, Zabet M (2022) Triticale (X *Triticosecale* Wittmack): Role and Responses Under Abiotic Stress. In: Abdel Latef AAH (eds) *Sustainable Remedies for Abiotic Stress in Cereals*. Springer, Singapore. [https://doi.org/10.1007/978-981-19-5121-3\\_9](https://doi.org/10.1007/978-981-19-5121-3_9), @2022 [Линк](#)

- 34. Sergiev I, Todorova D, Shopova E, Jankauskiene J, Jankovska-Bortkevic E, Jurkoniene S.** Effects of auxin analogues and heat stress on garden pea. *Zemdirbyste-Agriculture*, 105, 3, Lithuanian Research Centre Agriculture & Forestry, 2018, ISSN:1392-3196, DOI:DOI 10.13080/z-a.2018.105.031, 243-248. SJR (Scopus):0.422, JCR-IF (Web of Science):1.02

Цитира се в:

- 1211.** Ali Q., S. Shahid, N. Nazar, A. I. Hussain, S. Ali, S. A. S. Chatha, R. Perveen, J. Naseem, M. Z. Haider, B. Hussain, S. M. Hussain (2020) Use of Phytohormones in Conferring Tolerance to Environmental Stress. In: Hasanuzzaman M. (ed) *Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives II*. Pp. 245-355, Chapter 11, Springer, Singapore, Print ISBN 978-981-15-2171-3, Online ISBN 978-981-15-2172-0 (Book Chapter)., @2020 [Линк](#)
- 1212.** Pantoja-Benavides AD, Garcés-Varon G, Restrepo-Díaz H (2021) Foliar Growth Regulator Sprays Induced Tolerance to Combined Heat Stress by Enhancing Physiological and Biochemical Responses in Rice. *Front Plant Sci*, 12:702892., @2021 [Линк](#)
- 1213.** Xu R, Zhou S, Song J, Zhong H, Zhu T, Gong Y, Zhou Y, Bian Y. (2022) Comparative Transcriptome Analysis Provides Insights Into the Mechanism by Which 2, 4-Dichlorophenoxyacetic Acid Improves Thermotolerance in *Lentinula edodes*. *Front Microbiol.*, 13:910255. doi: 10.3389/fmicb.2022.910255, @2022 [Линк](#)
- 1214.** Bhatia, J., N. Gha, S.K. Jindal, 2023. Influence of 4-CPA and GA3 on physiological, biochemical and yield attributes of tomato under high-temperature conditions. *Journal of Applied Horticulture*, 25(2): 139-143., @2023 [Линк](#)
- 1215.** Mubarak S, Jadid N, Widiastuti A, Derajat Matra D, Budiarto R, Lestari FW, Nuraini A, Suminar E, Pradana Nur Rahmat B, Ezura H. Parthenocarpic tomato mutants, *iaa9-3* and *iaa9-5*, show plant adaptability and fruiting ability under heat-stress conditions. *Front Plant Sci*. 2023 Mar 1;14:1090774. doi: 10.3389/fpls.2023.1090774. PMID: 36938002; PMCID: PMC10014533., @2023 [Линк](#)
- 35. Sergiev I, Todorova D, Atanasova L.** High salinity-induced proline and polyamine changes in organs of pea (*Pisum sativum* L. Cv. Ran). *Compt. Rend. Acad. Bulg. Sci.*, 71, 11, Prof. Marin Drinov Academic Publishing House, 2018, ISSN:1310-1331, DOI:10.7546/CRABS.2018.11.06, 1479-1487. SJR (Scopus):0.205, JCR-IF (Web of Science):0.321

Цитира се в:

- 1216.** Attia, H. (2023). Physiological Responses of Pea Plants to Salinity and Gibberellic Acid. *Phyton-International Journal of Experimental Botany*, 92(1), 149–164, @2023 [Линк](#)

---

2019

---

- 36. Sergiev I, Todorova D, Shopova E, Jankauskiene J, Jankovska-Bortkevic E, Jurkoniene S.** Exogenous auxin type compounds amend PEG-induced physiological responses of pea plants. *Scientia Horticulturae*, 248, Evsevier, 2019, ISSN:0304-4238, DOI:https://doi.org/10.1016/j.scienta.2019.01.015, 200-205. SJR (Scopus):0.823, JCR-IF (Web of Science):2.769

Цитира се в:

- 1217.** Šedivá J, Mrázková M, Zahumenická P, Cusimamani EF, Zahradník D. Identification of Phytophthora tolerance in the *Anemone sylvestris* tetraploid. *Scientia Horticulturae*. 256, 108579, @2019 [Линк](#)
- 1218.** Zhang H, Wang R, Wang H, Liu B, Xu M, Guan Y, Yang Y, Qin L, Chen E, Li F, Huang R, Zhou Y. (2019) Heterogeneous root zone salinity mitigates salt injury to *Sorghum bicolor* (L.) Moench in a split-root system. *PLoS ONE* 14 (12): e0227020., @2019 [Линк](#)
- 1219.** Zhang M, He S, Zhan Y, Qin B, Jin X, Wang M, Zhang Y, Hu G, Teng Z, Wu W. Exogenous melatonin reduces the inhibitory effect of osmotic stress on photosynthesis in soybean. *PLoS ONE* 14 (12): e0226542, @2019 [Линк](#)

1220. Li F, Zuo S, Chi Y, Du C, Shen Z, Han X, Wang X, Wang P. Alleviation of drought stress in wheat using exogenous *Ulva prolifera* extract produced by enzymatic hydrolysis. *Journal of Renewable Materials* 8, 11, 1519–1529. DOI:10.32604/jrm.2020.011453., @2020 [Линк](#)
1221. Faisal S, Abdullah, Jan H, Shah SA, Shah S, Rizwan M, Zaman N, Hussain Z, Uddin MN, Bibi N, Khattak A, Khan W, Iqbal A, Idrees M, Masood R (2021) Bio-Catalytic Activity of Novel *Mentha arvensis* Intervened Biocompatible Magnesium Oxide Nanomaterials. *Catalysts*, 11(7):780., @2021 [Линк](#)
1222. Faisal S, Al-Radadi NS, Jan H, Abdullah, Shah SA, Shah S, Rizwan M, Afsheen Z, Hussain Z, Uddin MN, Idrees M, Bibi N (2021) Curcuma longa Mediated Synthesis of Copper Oxide, Nickel Oxide and Cu-Ni Bimetallic Hybrid Nanoparticles: Characterization and Evaluation for Antimicrobial, Anti-Parasitic and Cytotoxic Potentials. *Coatings*, 11(7):849., @2021 [Линк](#)
1223. Faisal S, H Jan, SA Shah, S Shah, A Khan, MT Akbar, M Rizwan, F Jan, Wajidullah, N Akhtar, A Khattak, S Syed (2021) Green Synthesis of Zinc Oxide (ZnO) Nanoparticles Using Aqueous Fruit Extracts of *Myristica fragrans*: Their Characterizations and Biological and Environmental Applications. *ACS Omega*, 6(14), 9709-9722., @2021 [Линк](#)
1224. Jan H, G Zaman, H Usman, R Ansir, S Drouet, N Gigliolo-Guivarc'h, C Hano, BH Abbasi (2021) Biogenically proficient synthesis and characterization of silver nanoparticles (Ag-NPs) employing aqueous extract of *Aquilegia pubiflora* along with their in vitro antimicrobial, anti-cancer and other biological applications. *Journal of Materials Research and Technology*, 15, 950-968., @2021 [Линк](#)
1225. Jan H, H Usman, M Shah, G Zaman, S Mushtaq, S Drouet, C Hano, BH Abbasi (2021) Phytochemical analysis and versatile in vitro evaluation of antimicrobial, cytotoxic and enzyme inhibition potential of different extracts of traditionally used *Aquilegia pubiflora* Wall. Ex Royle. *BMC Complement Med Ther*, 21, 165., @2021 [Линк](#)
1226. Al-Radadi N. S. (2022) Biogenic proficient synthesis of (Au-NPs) via aqueous extract of Red Dragon Pulp and seed oil: Characterization, antioxidant, cytotoxic properties, anti-diabetic anti-inflammatory, anti-Alzheimer and their anti-proliferative potential against cancer cell lines. *Saudi Journal of Biological Sciences*, 29(4), 2836-2855. <https://doi.org/10.1016/j.sjbs.2022.01.001>, @2022 [Линк](#)
1227. Madaan, I., N. Dogra, S. Kaushik, G. Kaur, A. Sidhu, R. Bhardwaj, G. Sirhindi, 2022. Chapter 23. "Implications of Phytohormones as Agrochemicals in Dynamic Environmental Conditions." In: M. Naeem, J. F. J. Bremont, A. A. Ansari, S. S. Gill, (Eds) *Agrochemicals in Soil and Environment*. Springer, Singapore, 2022. pp. 535-563. e Book ISBN: 978-981-16-9310-6, @2022 [Линк](#)
1228. Soboleva A, Frolova N, Bureiko K, Shumilina J, Balcke GU, Zhukov VA, Tikhonovich IA, Frolov A. (2022) Dynamics of Reactive Carbonyl Species in Pea Root Nodules in Response to Polyethylene Glycol (PEG)-Induced Osmotic Stress. *International Journal of Molecular Sciences*, 23(5):2726. <https://doi.org/10.3390/ijms23052726>, @2022 [Линк](#)
1229. WANG W, SHI SI, HE L, WU B, LIU CC, Accumulation and functions of polyamines in plants under drought stress, *Acta Prataculturae Sinica*, 2023, 32(6): 186-202., @2023 [Линк](#)
37. **Sergiev IG, Todorova DA**, Gins VK, Motyleva SM, Gins EM, Moskalev EA. Nutritional value of vegetable *Amaranthus tricolor* L. seedlings grown in Moscow region. *RUDN Journal of Agronomy and Animal Industries*, 14, 3, RUDN University, 2019, ISSN:2312-7988 (Online), 2312-797X (Print), DOI:10.22363/2312-797X-2019-14-3-225-238, 225-238

Цитира се в:

1230. Wang L, J Zhang, C Liu, A Arabmarkadeh (2021) Antioxidant Activity of Potato Seedlings at Different Storage Temperatures. *International Journal of Chemical Engineering*, vol. 2021, Article ID 5573644., @2021 [Линк](#)

38. **Todorova D, Katerova Z, Dimitrova R, Petrova M, Hristozkova M, Sergiev I.** Exogenous spermine application increases quantity of rosmarinic acid and carnosic acid in salt-treated *Salvia officinalis* L. plants in pot

experiments. *Compt. Rend. Acad. Bulg. Sci.*, 73, 6, Prof. Marin Drinov Academic Publishing House, 2020, ISSN:1310-1331, DOI:DOI: 10.7546/CRABS.2020.06.07, 800-808. SJR (Scopus):0.244, JCR-IF (Web of Science):0.378

Цитира се в:

- 1231.** Gholamnia A, Arani AM, Sodaeizadeh H, Esfahani ST, Ghasemi S (2022) Expression profiling of rosmarinic acid biosynthetic genes and some physiological responses from *Mentha piperita* L. under salinity and heat stress. *Physiol Mol Biol Plants* 28, 545–557. <https://doi.org/10.1007/s12298-022-01159-7>, @2022 [Линк](#)
- 1232.** Shahtousi S, Talaee L (2023). The effect of spermine on *Tetranychus urticae*-*Cucumis sativus* interaction. *BMC Plant Biology*, 23(1), 1-15. <https://doi.org/10.1186/s12870-023-04573-5>, @2023 [Линк](#)
- 39.** Jankovska-Bortkevic E., Gaveliene V., Šveikauskas V., Mockeviciute R., Jankauskiene J., **Todorova D., Sergiev I., Jurkoniene S.** Foliar Application of Polyamines Modulates Winter Oilseed Rape Responses to Increasing Cold. *Plants*, 9, 2, MDPI, 2020, ISSN:2223-7747, DOI:10.3390/plants9020179, SJR (Scopus):0.892, JCR-IF (Web of Science):3.935

Цитира се в:

- 1233.** Alcázar, R.; Bueno, M.; Tiburcio, A.F. 2020. Polyamines: Small Amines with Large Effects on Plant Abiotic Stress Tolerance. *Cells*, 9, 2373. doi:10.3390/cells9112373, @2020 [Линк](#)
- 1234.** Hasan MM, Skalicky M, Jahan MS, Hossain MN, Anwar Z, Nie Z-F, Alabdallah NM, Brestic M, Hejnak V, Fang X-W (2021) Spermine: Its Emerging Role in Regulating Drought Stress Responses in Plants. *Cells*, 10(2):261., @2021 [Линк](#)
- 1235.** RAVINDRA CHARY, G., K.A. GOPINATH, P. RATNA KUMAR, S. BHASKAR, V.K. SINGH, S. DEEPIKA, V. VISHA KUMARI, K.B. SRIDHAR, B. NARSIMLU, B. RAJ KUMAR, ABDUL RASUL, 2021. Management of major abiotic stresses in field crops. *Indian Journal of Agronomy* 66 (5th IAC Special issue): S258-S278., @2021 [Линк](#)
- 1236.** Shah SH, Islam S, Parrey ZA, Mohammad F (2021) Role of Exogenously Applied Plant Growth Regulators in Growth and Development of Edible Oilseed Crops Under Variable Environmental Conditions: a Review. *J Soil Sci Plant Nutr*, 21, 3284–3308., @2021 [Линк](#)
- 1237.** Tailor A, Bhatla SC (2021) Polyamine homeostasis modulates plasma membrane- and tonoplast-associated aquaporin expression in etiolated salt-stressed sunflower (*Helianthus annuus* L.) seedlings. *Protoplasma*, 258, 661–672., @2021 [Линк](#)
- 1238.** Tariq M, AA Shah, NA Yasin, A Ahmad, M Rizwan (2021) Enhanced performance of *Bacillus megaterium* OSR-3 in combination with putrescine ameliorated hydrocarbon stress in *Nicotiana tabacum*. *International Journal of Phytoremediation*, 23:2, 119-129. DOI: 10.1080/15226514.2020.1801572, @2021
- 1239.** da Silva TI, MG Dias, NO de Araújo, MN de Sousa Santos, RRP Cruz, TJ Dias, WS Ribeiro, JAS Grossi, JG Barbosa (2022) Spermine reduces the harmful effects of salt stress in *Tropaeolum majus*. *Physiol Mol Biol Plants* 28, 687–696 (2022). <https://doi.org/10.1007/s12298-022-01165-9>, @2022 [Линк](#)
- 1240.** Gu, J., C. Hu, X. Jia, Y. Ren, D. Su, J. He, 2022. Physiological and biochemical bases of spermidine-induced alleviation of cadmium and lead combined stress in rice, *Plant Physiology and Biochemistry*, 189, 104-114, @2022 [Линк](#)
- 1241.** Kaur Y, Das N (2022) Roles of Polyamines in Growth and Development of the Solanaceous Crops Under Normal and Stressful Conditions. *J Plant Growth Regul.* <https://doi.org/10.1007/s00344-022-10841-9>, @2022 [Линк](#)
- 1242.** Sardar R, S Ahmed, NA Yasin (2022) Role of exogenously applied putrescine in amelioration of cadmium stress in *Coriandrum sativum* by modulating antioxidant system, *International Journal of Phytoremediation*, 24:9, 955-962, DOI: 10.1080/15226514.2021.1985961, @2022 [Линк](#)

- 1243.** Shao J, Huang K, Batool M, Idrees F, Afzal R, Haroon M, Noushahi HA, Wu W, Hu Q, Lu X, Huang G, Aamer M, Hassan MU, El Sabagh A. (2022) Versatile roles of polyamines in improving abiotic stress tolerance of plants. *Front Plant Sci.*, 13:1003155. doi: 10.3389/fpls.2022.1003155., @2022 [Линк](#)
- 1244.** Soualiou S, F Duan, X Li, W Zhou (2022) Crop Production Under Cold Stress: An understanding of plant responses, acclimation processes, and management strategies. *Plant Physiology and Biochemistry*, 190, 47-61. <https://doi.org/10.1016/j.plaphy.2022.08.024>, @2022 [Линк](#)
- 1245.** Wu J, M Nadeem, L Galagedara, R Thomas, M Cheema (2022) Recent insights into cell responses to cold stress in plants: Signaling, defence, and potential functions of phosphatidic acid. *Environmental and Experimental Botany*, 203, 105068. <https://doi.org/10.1016/j.envexpbot.2022.105068>, @2022 [Линк](#)
- 1246.** Xu M, Yang Q, Bai G, Li P, Yan J. (2022) Polyamine pathways interconnect with GABA metabolic processes to mediate the low-temperature response in plants. *Front Plant Sci.*, 13:1035414. doi: 10.3389/fpls.2022.1035414., @2022 [Линк](#)
- 1247.** Asgher M, Z Sehar, M Fatma, M Hanief, AA Shah, NA Khan (2023) Ethylene and spermine attenuate chromium-inhibited photosynthetic functions by improving nitrogen and sulfur assimilation and antioxidant system in mustard. *Plant Stress*, 9, 100196., @2023 [Линк](#)
- 1248.** Kaur, Y., Das, N. Roles of Polyamines in Growth and Development of the Solanaceous Crops Under Normal and Stressful Conditions. *J Plant Growth Regul* 42, 4989–5010 (2023)., @2023 [Линк](#)
- 1249.** Kopecká R, Kameniarová M, Černý M, Brzobohatý B, Novák J. Abiotic Stress in Crop Production. *International Journal of Molecular Sciences*. 2023; 24(7):6603., @2023 [Линк](#)
- 1250.** Sharma P, Lakra N, Ahlawat Y, Zaid A, Abd-ElGawad AM, Elansary HO, Gupta A. Putrescine Mitigates High Temperature Effects by Modulating Morpho-Physiological and Biochemical Attributes in Brassica juncea Seedlings. *Agronomy*. 2023; 13(7):1879., @2023 [Линк](#)
- 1251.** Xie G, J Yang, Y Xu, Y Zhang, D Qiu, J Ding. The Lunar One-Sixth Low Gravity Conduciveness to the Improvement of the Cold Resistance of Plants. *Microgravity Sci. Technol.* 35, 35 (2023)., @2023 [Линк](#)

- 40. Sergiev I., Todorova D., Shopova E., Brankova L.,** Jankauskiene J., Jurkoniene S., Gaveliene V., Mockeviciute R.. Assessment of synthetic auxin type compounds as potential modulators of herbicide action in *Pisum sativum* L.. *Biologia*, 75, Springer, 2020, ISSN:1336-9563, DOI:<https://doi.org/10.2478/s11756-020-00557-0>, 1845-1853. SJR (Scopus):0.282, JCR-IF (Web of Science):1.35

Цитира се в:

- 1252.** Altaf, M.A., Shahid, R., Kumar, R., Altaf, M.M., Kumar, A., Khan, L.U., Saqib, M., Nawaz, M.A., Saddiq, B., Bahadur, S., Tiwari, R.K., Lal, M.K., Naz, S. "Phytohormones Mediated Modulation of Abiotic Stress Tolerance and Potential Crosstalk in Horticultural Crops" *J Plant Growth Regul* (2022). <https://doi.org/10.1007/s00344-022-10812-0>, @2022 [Линк](#)
- 1253.** Lukatkin, A.S., Semenova, A.S. & Teixeira da Silva, J.A. "Treatment of winter rye (*Secale cereale* L.) seeds with thidiazuron mitigates the toxic response of seedlings to short-term treatment with a herbicide, paraquat" *Acta Physiol Plant* 45, 78 (2023). <https://doi.org/10.1007/s11738-023-03565-0>, @2023
- 1254.** Oulmi, A., S. Benkadja, A. Guendouz, B. Frih, A. Mehanni, S. Selloum, 2023. Lipid Peroxidation, Proline Content and Soluble Sugars as indicators of Oxidative Stress Tolerance in Some Advanced Durum Wheat Lines (*Triticum durum* Desf.). *Rev. Fac. Agron. (LUZ)*. 2023, 40(2): e234018, ISSN 2477-9407, @2023 [Линк](#)

- 41. Shopova E, Mihailova B, Todorova D, Sergiev I, Stoimenova E.** Systemic Acquired Resistance Induced by Compatible and Incompatible Tomato Mosaic Viruses Effectively Controls Bacterial Spot and Speck Diseases in Tomato.. *Agriculture*, 10, 7, MDPI, 2020, ISSN:2077-0472, DOI:<https://doi.org/10.3390/agriculture10070302>, SJR (Scopus):0.252, JCR-IF (Web of Science):2.925

Цитира се в:

- 1255.** Gabriel-Ortega J, Pionce PC, Campana WN, Figueroa TF, Villao, FA (2022) Evaluation of four biostimulants for the induction of systemic resistance in cucumber (*Cucumis sativus* L.) and tomato



(*Solanum lycopersicum* Mill.) in monoculture and associated greenhouse cultivation. Journal of the Selva Andina Research Society, 13(2), 69-79. <https://doi.org/10.36610/j.jsars.2022.130200069>, @2022 [Линк](#)

- 1256.** Luo W, K Wang, J Luo, Y Liu, J Tong, M Qi, Y Jiang, Y Wang, Z Ma, J Feng, B Lei, H Yan (2023) Limonene anti-TMV activity and its mode of action. Pesticide Biochemistry and Physiology, 194, 105512., @2023 [Линк](#)
- 1257.** Monjezi, E., Aeini, M., Tabein, S., & Parizipour, M. H. G.. (2023). Biocontrol of Tomato Mosaic Disease by Multiple Applications of Brown Alga (*Sargassum angustifolium*) Extract, *Pseudomonas fluorescens*, and *Bacillus subtilis*. Brazilian Archives of Biology and Technology, 66(Braz. arch. biol. technol., 2023 66), e23220103. <https://doi.org/10.1590/1678-4324-2023220103>, @2023 [Линк](#)

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## 2021

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- 42. Shopova E, Brankova L, Katerova Z, Dimitrova L, Todorova D, Sergiev I, Talaat NB.** Salicylic acid pretreatment modulates wheat responses to glyphosate. Crops, 1, 2, MDPI, 2021, ISSN:2673-7655, DOI:<https://doi.org/10.3390/crops1020009>, 88-96

Цитира се в:

- 1258.** Ibrahim RIH, Alkhudairi UA, Alhusayni SAS (2022) Alleviation of Herbicide Toxicity in *Solanum lycopersicum* L.—An Antioxidant Stimulation Approach. Plants, 11(17), 2261. <https://doi.org/10.3390/plants11172261>, @2022 [Линк](#)
- 1259.** Boulahia K, Ould said C, Abrous-Belbachir O (2023) Exogenous Application of Salicylic Acid Improve Growth and Some Physio-Biochemical Parameters in Herbicide Stressed *Phaseolus vulgaris* L. Gesunde Pflanzen, 1-18. <https://doi.org/10.1007/s10343-023-00878-5>, @2023 [Линк](#)
- 1260.** Kumar A, Yadav PK, Singh S, Singh A (2023) An overview on the modulation of pesticide detoxification mechanism via salicylic acid in the plants. Environmental Pollutants and Bioavailability, 35:1, 2242701, DOI:10.1080/26395940.2023.2242701, @2023 [Линк](#)
- 1261.** Oulmi A, Benkadja S, Guendouz A, Frih B, Mehanni A, Selloum S (2023) Lipid Peroxidation, Proline Content and Soluble Sugars as indicators of Oxidative Stress Tolerance in Some Advanced Durum Wheat Lines (*Triticum durum* Desf.). Rev Fac Agron (LUZ), 40(2): e234018 [https://doi.org/10.47280/RevFacAgron\(LUZ\).v40.n2.08](https://doi.org/10.47280/RevFacAgron(LUZ).v40.n2.08), @2023 [Линк](#)

- 43. Shopova E, Katerova Z, Brankova L, Dimitrova L, Sergiev I, Todorova D, Talaat NB.** Modulation of physiological stress response of *Triticum aestivum* L. to glyphosate by brassinosteroid application. Life, 11, 11, MDPI, 2021, ISSN:2075-1729, DOI:<https://doi.org/10.3390/life11111156>, 1156-1167. SJR (Scopus):0.973, JCR-IF (Web of Science):3.817

Цитира се в:

- 1262.** Neha, Twinkle, Mohapatra S, Sirhindi G, Dogra V (2022) Seed priming with brassinolides improves growth and reinforces anti-oxidative defenses under normal and heat stress conditions in seedlings of *Brassica juncea*. Physiologia Plantarum, e13814. <https://doi.org/10.1111/ppl.13814>, @2022 [Линк](#)
- 1263.** Yalçın E, Çavuşoğlu K (2022) Spectroscopic contribution to glyphosate toxicity profile and the remedial effects of *Momordica charantia*. Sci Rep 12, 20020. <https://doi.org/10.1038/s41598-022-24692-7>, @2022 [Линк](#)
- 1264.** Barwal SK, Goutam C, Chauhan C, Vimala Y, Alyemeni MN, Ahmad P, Siddique KH (2023) Salicylic acid alleviates salt-induced phytotoxicity by modulating physiochemical attributes and upregulating the AsA-GSH cycle and glyoxalase system in *Capsicum annuum* L. seedlings. South African Journal of Botany, 161, 222-237. <https://doi.org/10.1016/j.sajb.2023.07.061>, @2023 [Линк](#)
- 1265.** Gao Y, Zhang Z, Cheng J, Xian X, Li C, Wang Y. Genome-wide identification of the CER1 gene family in apple and response of MdCER1-1 to drought stress. Funct Integr Genomics 23, 17 (2023). <https://doi.org/10.1007/s10142-022-00940-x>, @2023 [Линк](#)

- 1266.** Singha KM, Pandey P (2023) Endophytic bacteria with host-supportive genetic determinants in their genomes induce growth and antioxidant activity related gene functions in transcriptome of black rice (*Oryza sativa* L.). *Environmental and Experimental Botany*, 213, 105396. <https://doi.org/10.1016/j.envexpbot.2023.105396>, @2023 [Линк](#)
- 1267.** Spormann, S.; Nadais, P.; Sousa, F.; Pinto, M.; Martins, M.; Sousa, B.; Fidalgo, F.; Soares, C. "Accumulation of Proline in Plants under Contaminated Soils—Are We on the Same Page?" *Antioxidants* 2023, 12, 666. <https://doi.org/10.3390/antiox12030666>, @2023 [Линк](#)
- 1268.** Traxler C., Gaines T. A., Küpper A., Luemmen P., Dayan F. E., The nexus between reactive oxygen species and the mechanism of action of herbicides, *Journal of Biological Chemistry*, 2023, 105267., @2023 [Линк](#)

- 44. Katerova Z, Sergiev I, Todorova D, Shopova E, Dimitrova L, Brankova L.** Physiological responses of wheat seedlings to soil waterlogging applied after treatment with selective herbicide. *Plants*, 10, 6, MDPI, 2021, ISSN:22237747, DOI:10.3390/plants10061195, 1195-1200. SJR (Scopus):0.89

Цитира се в:

- 1269.** Krasnoshtan V, Karpenko V, Prytuliak R, Leontiuk I, Datsenko A. (2021) Lipoperoxidation in Grain Sorghum under the Influence of Herbicides, Phytohormones and Biopreparation, *Scientific Horizons*, 24 (9), 36-43, doi 10.48077/scihor.24(9).2021.36-43, @2021
- 1270.** Kumari A, Kaur R (2022) Uptake of a plasticizer (di-n-butyl phthalate) impacts the biochemical and physiological responses of barley. *PeerJ* 10:e12859 <https://doi.org/10.7717/peerj.12859>, @2022 [Линк](#)
- 1271.** Wang S, Zhou H, Feng N, Xiang H, Liu Y, Wang F, Li W, Feng S, Liu M, Zheng D. Physiological response of soybean leaves to uniconazole under waterlogging stress at R1 stage. *Journal of Plant Physiology*, 2022, 268, 153579. <https://doi.org/10.1016/j.jplph.2021.153579>, @2022 [Линк](#)
- 1272.** Skendžić, S.; Zovko, M.; Lešić, V.; Pajač Živković, I.; Lemić, D. "Detection and Evaluation of Environmental Stress in Winter Wheat Using Remote and Proximal Sensing Methods and Vegetation Indices—A Review" *Diversity* 2023, 15, 481. <https://doi.org/10.3390/d15040481>, @2023 [Линк](#)
- 1273.** Tiryakioglu M, Akçali CT, Şahin CB, Karanlık S, Ergün N (2023) Genotype by environment interaction and GGEbiplot analyses in durum wheat under waterlogging stress. *Journal of Animal and Plant Sciences* 33 (6). <https://doi.org/10.36899/JAPS.2023.6.0681>, @2023 [Линк](#)

- 45. Todorova D., Sergiev I, Shopova E, Brankova L, Jankauskiene J, Jurkoniene S, Gaveliene V, Mockevičiūtė R.** Physiological responses of pea plants to treatment with synthetic auxins and auxin-type herbicide. *Botanica*, 27, 2, Nature Research Centre, 2021, ISSN:2538-8657, DOI:doi.org/10.35513/Botlit.2021.2.2, 125-133. SJR (Scopus):0.167

Цитира се в:

- 1274.** Traxier, C., Gaines, T.A., Kupper, A., Luemmen, P., Dayan, F.E. "The nexus between reactive oxygen species and the mechanism of action of herbicides", *Journal of Biological Chemistry*, 299(11), 105267, 2023, @2023 [Линк](#)

- 46. Seckin Dinler B, Cetinkaya H, Sergiev I, Shopova E, Todorova D.** Paclobutrazol induced non-enzymatic antioxidants and polyamine levels in soybean plants grown under salinity stress. *Botanica*, 27, 2, Nature Research Centre, 2021, ISSN:2538-8657, DOI:doi.org/10.35513/Botlit.2021.2.5, 149-159. SJR (Scopus):0.167

Цитира се в:

- 1275.** Zhu X, Wei Q, Wan P, Wang W, Lai F, He J, Fu Q (2023) Effect of Paclobutrazol Application on Enhancing the Efficacy of Nitenpyram against the Brown Planthopper, *Nilaparvata lugens*. *International Journal of Molecular Sciences*. 2023; 24(13):10490., @2023 [Линк](#)

**47. Todorova D, Sergiev I, Katerova Z, Shopova E, Dimitrova L, Brankova L.** Assessment of the biochemical responses of wheat seedlings to soil drought after application of selective herbicide. *Plants*, 10, 4, MDPI, 2021, ISSN:2223-7747, DOI:<https://doi.org/10.3390/plants10040733>, 733-745. SJR (Scopus):0.892, JCR-IF (Web of Science):3.935

Цумура се в:

- 1276.** Kirova E, Moskova I, Geneva M, Kocheva K (2021) Antioxidant potential of tolerant and susceptible wheat varieties under drought and recovery. *Cereal Research Communications*, 1-9. <https://doi.org/10.1007/s42976-021-00222-5>, @2021 [Линк](#)
- 1277.** Paunescu RA, Bonciu E, Rosculete E, Paunescu G, Rosculete CA, Babeanu C. The Variability for the Biochemical Indicators at the Winter Wheat Assortment and Identifying the Sources with a High Antioxidant Activity. *Plants*, 2021, 10(11) 2443. <https://doi.org/10.3390/plants10112443>, @2021 [Линк](#)
- 1278.** Bakaeva M, Chetverikov S, Timergalin M, Feoktistova A, Rameev T, Chetverikova D, Kenjieva A, Starikov S, Sharipov D, Hkudaygulov G (2022) PGP-Bacterium *Pseudomonas protegens* Improves Bread Wheat Growth and Mitigates Herbicide and Drought Stress. *Plants*, 11(23):3289. <https://doi.org/10.3390/plants11233289>, @2022 [Линк](#)
- 1279.** Didi DA, Su S, Sam FE, Tiika RJ, Zhang X (2022) Effect of Plant Growth Regulators on Osmotic Regulatory Substances and Antioxidant Enzyme Activity of *Nitraria tangutorum*. *Plants*, 11(19), 2559. <https://doi.org/10.3390/plants11192559>, @2022 [Линк](#)
- 1280.** Illescas M, Morán-Diez ME, Martínez de Alba AE, Hermosa R, Monte E (2022) Effect of *Trichoderma asperellum* on Wheat Plants' Biochemical and Molecular Responses, and Yield under Different Water Stress Conditions. *International Journal of Molecular Sciences*. 23(12):6782. <https://doi.org/10.3390/ijms23126782>, @2022 [Линк](#)
- 1281.** Jabir B, N Falih (2022) Deep learning-based decision support system for weeds detection in wheat fields. *International Journal of Electrical and Computer Engineering (IJECE)* 12 (1) 816-825, DOI: <http://doi.org/10.11591/ijece.v12i1.pp816-825>, @2022 [Линк](#)
- 1282.** Shikari AB, Dikilitas M, Guldur ME, Simsek E, Demirsoy FFK, Sakina A, Abdel Latef AAH (2022) Cereals Under Abiotic Stress: An Overview. In: Abdel Latef, A.A.H. (eds) *Sustainable Remedies for Abiotic Stress in Cereals*. Springer, Singapore. [https://doi.org/10.1007/978-981-19-5121-3\\_1](https://doi.org/10.1007/978-981-19-5121-3_1), @2022 [Линк](#)
- 1283.** Adhikari S, Kumari J, Bhardwaj R, Jacob S, Langyan S, Sharma S, M. Singh A, Kumar A. 2023. Unlocking the potential of ancient hexaploid Indian dwarf wheat, *Tritium sphaerococcum* for grain quality improvement. *PeerJ* 11:e15334 <https://doi.org/10.7717/peerj.15334>, @2023 [Линк](#)
- 1284.** Jurkonienė S, Mockevičiūtė R, Gavelienė V, Šveikauskas V, Zareyan M, Jankovska-Bortkevič E, Jankauskienė J, Žalnierius T, Kozeko L. Proline Enhances Resistance and Recovery of Oilseed Rape after a Simulated Prolonged Drought. *Plants*. 2023; 12(14):2718. <https://doi.org/10.3390/plants12142718>, @2023 [Линк](#)
- 1285.** Lastochkina, O., Bosacchi, M. "Potential roles of plant growth-promoting microbes in wheat adaptation and tolerance to herbicide and drought stress combination," *Turkish Journal of Agriculture and Forestry*: Vol. 47: No. 5, Article 10. <https://doi.org/10.55730/1300-011X.3121>, @2023
- 1286.** Lastochkina, O.; Yakupova, A.; Avtushenko, I.; Lastochkin, A.; Yuldashev, R. "Effect of Seed Priming with Endophytic *Bacillus subtilis* on Some Physio-Biochemical Parameters of Two Wheat Varieties Exposed to Drought after Selective Herbicide Application". *Plants* 2023, 12, 1724. <https://doi.org/10.3390/plants12081724>, @2023
- 1287.** Lukatkin AS, Semenova AS, da Silva JAT (2023) Treatment of winter rye (*Secale cereale* L.) seeds with thidiazuron mitigates the toxic response of seedlings to short-term treatment with a herbicide, paraquat. *Acta Physiologiae Plantarum*, 45(6), 78., @2023 [Линк](#)
- 1288.** Mockevičiūtė, R.; Jurkonienė, S.; Šveikauskas, V.; Zareyan, M.; Jankovska-Bortkevič, E.; Jankauskienė, J.; Kozeko, L.; Gavelienė, V. "Probiotics, Proline and Calcium Induced Protective Responses of *Triticum aestivum* under Drought Stress". *Plants* 2023, 12, 1301. <https://doi.org/10.3390/plants12061301>, @2023 [Линк](#)

- 1289.** Tahmasebi BK, Fakhari R, Amirinejad M, Ziveh P S (2023) Influence of Various Herbicides on Weed Dynamics and Wheat Yield (*Triticum aestivum* L.). *KEPES*, 21(3), 420-432. <https://doi.org/10.5281/zenodo.7936583#102>, @2023 [Линк](#)
- 1290.** Vassileva V, Georgieva M, Zehirov G, Dimitrova A (2023) Exploring the Genotype-Dependent Toolbox of Wheat under Drought Stress. *Agriculture*. 13(9)1823. <https://doi.org/10.3390/agriculture13091823>, @2023 [Линк](#)

- 48.** Jurkonienė S, Jankauskienė J, Mockevičiūtė R, Gavelienė V, Jankovska-Bortkevič E, **Sergiev I, Todorova D**, Anisimoviene N. Elevated temperature induced adaptive responses of two lupine species at early seedling phase. *Plants*, 10, MDPI, 2021, 1091. SJR (Scopus):0.892, JCR-IF (Web of Science):3.935

*Цитупа се в:*

- 1291.** Abramova LM, DR Rogozhnikova, AN Mustafina, YM Golovanov, AV Kryukova. Distribution and Biology of *Lupinus polyphyllus* Lindl. (Fabaceae) in the Republic of Bashkortostan. *Russ J Biol Invasions* 14, 119–130 (2023)., @2023 [Линк](#)

---

2022

---

- 49. Todorova D, Katerova Z, Shopova E, Brankova L, Sergiev I, Jankauskienė J, Jurkonienė S.** The physiological responses of wheat and maize seedlings grown under water deficit are modulated by pre-application of auxin-type plant growth regulators. *Plants*, 11, 23, MDPI, 2022, ISSN:2223-7747, DOI:<https://doi.org/10.3390/plants11233251>, 3251-3261. SJR (Scopus):0.765

*Цитупа се в:*

- 1292.** Sala, F., Herbei, M.V. "Interdependence relationships between the productivity elements in wheat ear and photosynthetic pigments in leaves in relation to their position on the stem". *Agriculture & Forestry / Poljoprivreda i šumarstv* . 2023, Vol. 69 Issue 2, p139-154. 16p., @2023
- 1293.** Xin L, Wang J, Yang Q (2023) Exogenous Salicylic Acid Alleviates Water Deficit Stress by Protecting Photosynthetic System in Maize Seedlings. *Agronomy*. 13(9) 2443. <https://doi.org/10.3390/agronomy13092443>, @2023 [Линк](#)

- 50. Todorova D, Aleksandrov V, Anev S, Sergiev I.** Photosynthesis alterations in wheat plants induced by herbicide, soil drought or flooding. *Agronomy*, 15, MDPI, 2022, DOI:10.3390/agronomy12020390, 390. JCR-IF (Web of Science):3.949

*Цитупа се в:*

- 1294.** Bakaeva M, Chetverikov S, Timergalin M, Feoktistova A, Rameev T, Chetverikova D, Kenjjeva A, Starikov S, Sharipov D, Hkudaygulov G (2022) PGP-Bacterium *Pseudomonas protegens* Improves Bread Wheat Growth and Mitigates Herbicide and Drought Stress. *Plants*, 11(23):3289. <https://doi.org/10.3390/plants11233289>, @2022 [Линк](#)
- 1295.** Javaid MM, Mahmood A, Bhatti MIN, Waheed H, Attia K, Aziz A, Nadeem MA, Khan N, Al-Doss AA, Fiaz S, Wang X. (2022) Efficacy of Metribuzin Doses on Physiological, Growth, and Yield Characteristics of Wheat and Its Associated Weeds. *Front Plant Sci.*, 13:866793. doi: 10.3389/fpls.2022.866793, @2022 [Линк](#)
- 1296.** Nio SAI, DPM Ludong, R Siahaan (2022) Pattern of chlorophylls content declined during partial submergence for rice varieties cultivated in North Sulawesi at the vegetative stage. *Biodiversitas*, 23(5), 2451-2456. DOI: 10.13057/biodiv/d230524, @2022 [Линк](#)
- 1297.** Zhu Y, Zhu S, Zhang F, Zhao Z, Christensen MJ, Nan Z, Zhang X. (2022) Transcriptomic Analyses Reveals Molecular Regulation of Photosynthesis by *Epichloë* endophyte in *Achnatherum inebrians* under *Blumeria graminis* Infection. *Journal of Fungi*, 8(11):1201. <https://doi.org/10.3390/jof8111201>, @2022 [Линк](#)

1298. Anshori MF, A Dirpan, T Sitaresmi, R Rossi, M Farid, A Hairmansis, BS Purwoko, WB Suwarno, Y Nugraha (2023) An overview of image-based phenotyping as an adaptive 4.0 technology for studying plant abiotic stress: A bibliometric and literature review. *Heliyon* 9, e21650., @2023 [Линк](#)
1299. Balekoglu S, S Caliskan, E Makineci, H Dirik (2023) An experimental assessment of carbon and nitrogen allocation in *Pinus pinea* populations under drought stress and rewatering treatment. *Environmental and Experimental Botany*, 210, 105334., @2023 [Линк](#)
1300. Gurova T., Chesnochenko N. 2023. Chlorophyll fluorescence of wheat leaves when infected with *Bipolaris sorokiniana*. *E3S Web of Conferences* 390 (2), 01011, AGRITECH-VIII 2023, @2023 [Линк](#)
1301. Hnilicka F, Lysytskyi S, Rygl T, Hnilickova H, Pecka J. Effect of Short-Term Water Deficit on Some Physiological Properties of Wheat (*Triticum aestivum* L.) with Different Spike Morphotypes. *Agronomy*. 2023; 13(12):2892., @2023 [Линк](#)
1302. Konieczna W, M Warchoń, A Mierek-Adamska, E Skrzypek, P Waligórski, A Piernik, GB Dąbrowska. Changes in physio-biochemical parameters and expression of metallothioneins in *Avena sativa* L. in response to drought. *Sci Rep* 13, 2486 (2023)., @2023 [Линк](#)
1303. Lang, J.; Barták, M.; Váczi, P.; Hájek, J. 2023. Effect of Some Herbicides on Primary Photosynthesis in *Malva moschata* as a Prospective Plant for Agricultural Grass Mixtures. *Agronomy* 2024, 14, 10, @2023 [Линк](#)
1304. Lastochkina O, Bosacchi M (2023) "Potential roles of plant growth-promoting microbes in wheat adaptation and tolerance to herbicide and drought stress combination," *Turkish Journal of Agriculture and Forestry*, 47(5), Article 10., @2023 [Линк](#)
1305. Lastochkina O, Yakupova A, Avtushenko I, Lastochkin A, Yuldashev R. Effect of Seed Priming with Endophytic *Bacillus subtilis* on Some Physio-Biochemical Parameters of Two Wheat Varieties Exposed to Drought after Selective Herbicide Application. *Plants*. 2023; 12(8):1724., @2023 [Линк](#)
1306. Nasiri S, B Andalibi, A Tavakoli, MA Delavar, A El-Keblawy, L Van Zwieten. Using Biochar and Foliar Application of Methyl Jasmonate Mitigates Destructive Effects of Drought Stress Against Some Biochemical Characteristics and Yield of Barley (*Hordeum vulgare* L.). *Gesunde Pflanzen* 75, 1689–1703 (2023)., @2023 [Линк](#)
1307. Stefanov M, Rashkov G, Borisova P, Apostolova E. Sensitivity of the Photosynthetic Apparatus in Maize and Sorghum under Different Drought Levels. *Plants*. 2023; 12(9):1863., @2023 [Линк](#)
1308. Wanic M, Parzonka M. Assessing the Role of Crop Rotation in Shaping Foliage Characteristics and Leaf Gas Exchange Parameters for Winter Wheat. *Agriculture*. 2023; 13(5):958., @2023 [Линк](#)
1309. Zhao P, X Chen, X Xue, Y Wang, Y Wang, H Li, R Xue, Y Li. Improvement of polyamine synthesis maintains photosynthetic function in wheat during drought stress and rewatering at the grain filling stage. *Plant Growth Regul* (2023)., @2023 [Линк](#)

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## 2023

---

51. Jankovska-Bortkevič E, **Katerova Z**, **Todorova D**, Jankauskienė J, Mockevičiūtė R, **Sergiev I**, Jurkonienė S. Effects of auxin-type plant growth regulators and cold stress on the endogenous polyamines in pea plants. *Horticulturae*, 9, 2, MDPI, 2023, ISSN:2311-7524, DOI:<https://doi.org/10.3390/horticulturae9020244>, 244-257. SJR (Scopus):0.468, JCR-IF (Web of Science):2.923

Цитира се в:

1310. Raza A, Charagh S, Najafi-Kakavand S, Abbas S, Shoaib Y, Anwar S, Sharifi S, Lu G, Siddique KH (2023) Role of phytohormones in regulating cold stress tolerance: Physiological and molecular approaches for developing cold-smart crop plants. *Plant Stress*, 100152. <https://doi.org/10.1016/j.stress.2023.100152>, @2023 [Линк](#)