ПЪЛЕН СПИСЪК НА НАУЧНИТЕ ПУБЛИКАЦИИ

на

гл. ас. д-р Зорница Иванова Катерова-Ланджовна

№	Публикация	JCR IF	Квартил
1*	**Katerova Z**, Petrova A, Sergiev I, Todorova D (2024) Polyamine alterations of triticale in response to herbicide, drought and waterlogging treatments. Compt. rend. Acad. Bulg. Sci., 77, 1, 156–164.	0.3 (2022)	Q3 (SJR), (2023)
2*	Jankovska-Bortkevič E, **Katerova Z**, Todorova D, Jankauskienė J, Mockevičiūtė R, Sergiev I, Jurkonienė S (2023) Effects of auxin-type plant growth regulators and cold stress on the endogenous polyamines in pea plants. Horticulturae, 9, 2, 244–257. https://doi.org/10.3390/horticulturae9020244	3.1 (2022)	Q1 (SJR)
3*	**Katerova Z**, Todorova D, Shopova E, Brankova L, Dimitrova L, Petrakova M, Sergiev I (2023) Biochemical alterations in triticale seedlings pretreated with selective herbicide and subjected to drought or waterlogging stress. Plants, 12, 15, 2803–2816. https://doi.org/10.3390/plants12152803	4.5 (2022)	Q1 (SJR)
4*	Todorova D, **Katerova Z**, Shopova E, Brankova L, Sergiev I, Jankauskienė J, Jurkonienė S (2022) 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, 3251–3261. https://doi.org/10.3390/plants11233251	4.5	Q1 (SJR) Q1 (JCR)
5	Todorova D, **Katerova Z**, Dimitrova L, Sergiev I (2022) Involvement of polyamines in physiological reactions of herbicide-treated wheat seedlings subjected to drought and waterlogging stress. Compt. rend. Acad. Bulg. Sci., 75, 6, 923–932. https://doi.org/10.7546/CRABS.2022.06.17	0.3	Q3 (SJR) Q4 (JCR)
6*	Brankova L, Dimitrova L, Shopova E, **Katerova Z**, Sergiev I, Todorova D (2022) Microsomal P450-related electron transfer components, glutathione and glutathione S-transferase contribution in stress response of herbicide-treated wheat to drought and waterlogging. Compt. rend. Acad. Bulg. Sci., 75, 7, 1089–1096. DOI:10.7546/CRABS.2022.07.18	0.3	Q3 (SJR) Q4 (JCR)
7	Todorova D, Sergiev I, **Katerova Z**, Shopova E, Dimitrova L, Brankova L (2021) Assessment of the biochemical responses of wheat seedlings to soil drought after application of selective herbicide. Plants, 10, 4, 733–745. https://doi.org/10.3390/plants10040733	4.658	Q1 (SJR) Q1 (JCR)
8*	Shopova E, **Katerova Z**, Brankova L, Dimitrova L, Sergiev I, Todorova D, Talaat NB (2021) Modulation of physiological stress response of *Triticum aestivum* L. to glyphosate by brassinosteroid application. Life, 11, 11, 1156–1167. https://doi.org/10.3390/life11111156	3.253	Q2 (SJR) Q2 (JCR)
9	Shopova E, Brankova L, **Katerova Z**, Dimitrova L, Todorova D, Sergiev I, Talaat NB (2021) Salicylic acid pretreatment modulates	–	–

	wheat responses to glyphosate. Crops, 1, 2, 88–96. https://doi.org/10.3390/ crops1020009		
10*	**Katerova Z**, Sergiev I, Todorova D, Shopova E, Dimitrova L, Brankova L (2021) Physiological responses of wheat seedlings to soil waterlogging applied after treatment with selective herbicide. Plants, 10, 6, 1195–1200. DOI:10.3390/plants10061195	4.658	Q1 (SJR) Q1 (JCR)
11	Todorova D, **Katerova Z**, Dimitrova R, Petrova M, Hristozkova M, Sergiev I (2020) 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, 800–808. DOI: 10.7546/CRABS.2020.06.07	0.378	Q2 (SJR) Q4 (JCR)
12	Sergiev I, Todorova D, **Katerova Z**, Brambilla I, Mapelli S, Simova S (2018) 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, 153–163. DOI:doi.org/10.1007/s40626-018-0110-9	1.532	Q2 (SJR) Q2 (JCR)
13	Sergiev I, Todorova D, Shopova E, **Katerova Z**, Jankauskiene J, Jurkoniene S (2017) Auxin-like compounds act as protectors against UV-b irradiation in garden pea plants. Botanica Lithuanica, 23, 2, 79–88.	–	Q4 (SJR)
14	Sergiev I, Todorova D, **Katerova Z**, Shopova E, Jankauskiene J, Jurkoniene S (2017) Beneficial effects of auxin-like compounds on pea plants irradiated with UV-C. Genetics and Plant Physiology, 7, 3-4, 135–146.	–	–
15*	**Katerova Z**, Todorova D, Sergiev I (2017) 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, Chapter 6, pp. 97–121. ISBN: 978-3-319-68717-9, https://doi.org/10.1007/978-3-319-68717-9_6, 97-121	–	Scopus
16	Todorova D, Talaat NB, **Katerova Z**, Alexieva V, Shawky BT (2016) Polyamines and brassinosteroids in drought stress responses and tolerance in plants. In: Water stress and crop plants: a sustainable approach (ed P. Ahmad), John Wiley & Sons, Ltd., Chapter 35, pp. 608–627. ISBN:9781119054450, DOI:10.1002/9781119054450.ch35, 608-627	–	Scopus
17	Todorova D, **Katerova Z**, Shopova E, Jodinskiene M, Jurkoniene S, Sergiev I (2016) Responses of pea plants to heat stress and spermine treatment. Zemdirbyste-Agriculture, 103, 1, 99–106. DOI:10.13080/z-a.2016.103.013	0.644	Q2 (SJR) Q3 (JCR)
18*	**Katerova Z**, Todorova D, Sergiev I, Yu C-Y, Alexieva V (2016) Biochemical responses of young wheat plants irradiated with UV-C and pretreated with β-monomethyl ester of itaconic acid (MEIA) or polyamine spermine. Compt. Rend. Acad. Bulg. Sci., 69, 1, 31–36.	0.251	Q3 (SJR) Q4 (JCR)
19	Todorova D, **Katerova Z**, Alexieva V, Sergiev I (2015) Polyamines – Possibilities for application to increase plant tolerance and adaptation capacity to stress. Genetics and Plant Physiology, 5, 2, 123–144.	–	–

20	Tasheva K, **Katerova Z**, Kosturkova G (2015) The effect of UV irradiation on in vitro cultures development of Golden root – endangered medicinal plant. Scientific Bulletin. Series F. Biotechnologies, XIX, 70–75.	–	–
21	Georgieva M, Nikolova I, Bonchev G, **Katerova Z**, Todorova D (2015) A comparative analysis of membrane intactness and genome integrity in pea, barley and wheat in response to UVC-irradiation. Turkish Journal of Botany, 39, 6, 1008–1013. DOI:10.3906/bot-1502-14	1.178	Q2 (SJR) Q3 (JCR)
22	Todorova D, Sergiev I, Moskova I, **Katerova Z**, Georgieva N, Alexieva V, Brambilla I, Mapelli S (2014) Biochemical responses of triticale plants treated with UV-B irradiation and nutrient solution enriched with humic acids. Turkish Journal of Botany, 38, 747–753. DOI:10.3906/bot-1312-52	–	Q2 (SJR)
23	Todorova D, **Katerova Z**, Sergiev I, Alexieva V (2014) 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, 194–221, ISBN:978-1-78064-273-4, DOI:10.1079/9781780642734.0194	WoS	–
24	**Katerova Z**, Shopova E, Kartseva T, Balacheva E, Todorova D (2014) Biochemical responses of two tomato genotypes differing in gene *anthocyaninless of Hoffmann* (*ah*), treated with UV-B irradiation and β-monomethyl ester of itaconic acid (MEIA). Compt. rend. Acad. Bulg. Sci., 67, 4, 533–540.	0.284	Q3 (SJR) Q4 (JCR)
25	Todorova D, **Katerova Z**, Shopova E, Nikolova A, Georgieva N, Sergiev I, Mapelli S (2013) Polyamine spermine protects young pea plants against ultraviolet-C radiation. Biotechnology & Biotechnological Equipment, 27, 3, 3798–3802. DOI:10.5504/BBEQ.2013.0012	0.379	Q3 (SJR) Q4 (JCR)
26	Todorova D, **Katerova Z**, Sergiev I, Alexieva V (2013) 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, 355–379. ISBN:978-1-4614-4747-4, DOI:10.1007/978-1-4614-4747-4_13	–	Scopus
27	Nikolova I, Georgieva M, Stoilov L, **Katerova Z**, Todorova D (2013) Optimization of neutral comet assay for studying DNA double-strand breaks in pea and wheat. Journal of BioScience and Biotechnology, 2, 3, 151–157.	–	–
28	Nikolova I, Georgieva M, Stoilov L, **Katerova Z**, Todorova D (2013) The comet assay as an indicator test for DNA integrity on plant species. Proceedings of Jubilee National Scientific Conference with international participation "Traditions, directions, challenges", Plovdiv University "Paisii Hilendarski", Filial – Smolyan, II, I, 46–53. ISBN:978-954-8767-42-2	–	–
29	Georgieva M, Nikolova I, Stoilov L, **Katerova Z**, Todorova D. (2013) Analysis of UVC-induced DNA damage on mono- and dicotyledonous species by comet assay. Proceedings of Jubilee National Scientific Conference with international participation "Traditions, directions, challenges", Plovdiv University "Paisii	–	–

	Hilendarski", Filial – Smolyan, II, I, 54–60. ISBN:978-954-8767-42-2		
30*	**Katerova Z**, Todorova D (2012) Polyamines and free proline protect young pea (*Pisum sativum* L.) leaves against enhanced UV-C irradiation. Compt. rend. Acad. Bulg. Sci., 65, 4, 473–478.	0.211	Q2 (SJR) Q4 (JCR)
31*	**Katerova Z**, Todorova D, Tasheva K, Sergiev I (2012) Influence of ultraviolet radiation on plant secondary metabolite production. Genetics and Plant Physiology, 2, 3-4, 113–144.	–	–
32*	**Katerova Z**, Shopova E, Georgieva N, Nikolova A, Sergiev I, Todorova D (2012) MEIA acts as protector against UV-C irradiation in young wheat plants. Compt. rend. Acad. Bulg. Sci., 65, 10, 1373–1378.	0.211	Q2 (SJR) Q4 (JCR)
33*	**Katerova Z**, Todorova D (2011) Effect of enhanced UV-C irradiation on the growth, malondialdehyde, hydrogen peroxide, free proline, polyamines, IAA and IAA-oxidase activity in pea plants (*Pisum sativum* L.). Compt. rend. Acad. Bulg. Sci., 64, 11, 1555–1562.	0.210	Q2 (SJR) Q4 (JCR)
34*	**Katerova Z**, Miteva L (2010) Glutathione and herbicide resistance in plants. In: Ascorbate-glutathione pathway and stress tolerance in plants. 1st Edition, (Eds. Anjum NA, Umar S, Chan M-T). Springer Science+Business Media B.V., Springer Netherlands, Chapter 6, pp. 191–207. ISBN:978-90-481-9403-2, DOI:10.1007/978-90-481-9404-9_6	WoS	–
35* # 36*	**Katerova ZI**, Todorova D (2009) Endogenous polyamines lessen membrane damages in pea plants provoked by enhanced ultraviolet-C radiation. Plant Growth Regulation, 57, 2, 145–152. DOI:10.1007/s10725-008-9330-3 **Katerova Z** (2009) Prolonged influence of short pulses ultraviolet-C radiation on young pea plant does not alter important antioxidant defense enzyme activities in young leaves. General and Applied Plant Physiology, Special Issue (Part I) – Proceedings of the XI National Conference on Plant Physiology, Sofia, Bulgaria, 18–19 November 2009, 35, 3-4, 134–139. Institute of Plant Physiology – Bulgarian Academy of Sciences	1.530 –	Q1 (SJR) Q2 (JCR) –
37* # 38*	**Katerova Z**, Ivanov S, Prinsen E, Van Onckelen H, Alexieva V, Azmi A (2009) Low doses of ultraviolet-B or ultraviolet-C radiation affect phytohormones in young pea plants. Biologia Plantarum, 53, 2, 365–368. DOI:10.1007/s10535-009-0068-1 **Katerova Z**, Ivanov S, Mapelli S, Alexieva V (2009) Phenols, proline and low-molecular thiol levels in pea (*Pisum sativum*) plants respond differently toward prolonged exposure to ultraviolet-B and ultraviolet-C radiations. Acta Physiologiae Plantarum, 31, 1, 111–117. DOI:10.1007/s11738-008-0208-9	1.656 1.232	Q1 (SJR) Q2 (JCR) Q2 (SJR) Q2 (JCR)
39* # –	**Katerova Z**, Prinsen E (2008) Alterations in indoleacetic acid, abscisic acid and aminocyclopropane carboxylic acid in pea plants after prolonged influence of low levels ultraviolet-B and ultraviolet-C radiations. General and Applied Plant Physiology, 34, 3-4, 377–388.	–	–

40* # 	**Katerova Z**, Ivanov S, Mapelli S (2008) Prolonged low dose of ultraviolet-B radiation does not activate antioxidant defence in young pea plants Compt. rend. Acad. Bulg. Sci., 61, 5, 615–620.	0.152	Q2 (SJR) Q4 (JCR)
41* # 	**Katerova Z**, Shopova E, Brankova L, Ivanov S, Karanov E (2008) Alterations in antioxidant enzymes of pea plants in response to prolonged influence of short pulses of ultraviolet-C radiations. Compt. rend. Acad. Bulg. Sci., 61, 3, 335–340.	0.152	Q2 (SJR) Q4 (JCR)
42	Ivanov S, **Katerova Z**, Ivanova E, Alexieva V (2005) Effects of long-term treatment with low concentrations of herbicides atrazine, glyphosate and 2,4D on IAA oxidase activity in young pea plants. Compt. rend. Acad. Bulg. Sci., 58, 3, 315–318.	–	Q3 (SJR)
43*	**Katerova Z**, Alexieva V, Ivanov S, Mapelli S, Karanov E (2003) Effect of two daily and low-intensity UV-B radiations on growth and stress markers in young pea (*Pisum sativum* L.) plants. Compt. rend. Acad. Bulg. Sci., 56, 6, 73–78.	–	Q3 (SJR)

– Публикации, включени в дисертацията за придобиване на ОНС „Доктор”: № 35,37-41

Във виолетов цвят са публикациите, включени в списъка за участие в конкурс за заемане на академична длъжност „доцент”

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Обзорни статии: глава от книга (№ 15,16,23,26,34), в списания (№ 19,31)

СПРАВКА

КЪМ СПИСЪКА НА НАУЧНИТЕ ПУБЛИКАЦИИ
на гл. ас. д-р Зорница Иванова Катерова-Ланджова за участие в конкурс за заемане на академична длъжност „доцент”

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Списание	**Брой статии**	**№ от списъка**	**Сума от JCR IF за съответната година на издаване**
Horticulturae	1	2	3.1
Plants	4	3,4,7,10	18.316
Compt. rend. Acad. Bulg. Sci.	12	1,5,6,11,18,24, 30,32,33,40,41, 42,43	2.749
Life	1	8	3.253
Theoretical and Experimental Plant Physiology	1	12	1.532
Zemdirbyste-Agriculture	1	17	0.644
Turkish Journal of Botany	2	21,22	1.178
Biotechnology & Biotechnological Equipment	1	25	0.379
Plant Growth Regulation	1	35	1.53
Biologia Plantarum	1	37	1.656
Acta Physiologiae Plantarum	1	38	1.232
Proceedings of Jubilee national scientific conference with international participation “Traditions, directions, challenges”	2	28,29	–
Journal of BioScience and Biotechnology	1	27	–
Scientific Bulletin. Series F. Biotechnologies, XIX	1	20	–
Genetics and Plant Physiology	2	14	–
General and Applied Plant Physiology		39,36	–
Botanica Lithuanica	1	13	–
Crops, MDPI	1	9	–
Общо	**36**		**35.569**

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