**СПИСЪК НА НАУЧНИ ПУБЛИКАЦИИ**

за участие в конкурс за заемане на академична длъжност „доцент”
по професионално направление 4.3. Биологически науки,
специалност „Физиология на растенията“,
обявен от ИФРГ – БАН в ДВ бр. 22 / 15.03.2024 г.

**гл. ас. д-р Зорница Иванова Катерова-Ланджова**

| № | Група | Публикация | Квартил | IF (WoS JCR) | Точки |
|---|---|---|---|---|---|
| 1 | В4-1 | 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. | Q2 | 1.532 | 20 |
| 2 | В4-2 | 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. | Q2 | 1.178 | 20 |
| 3 | В4-3 | 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. | Q2 | – | 20 |
| 4* | В4-4 | **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. | Q3 | 0.284 | 15 |
| 5 | В4-5 | 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. | Q3 | 0.379 | 15 |
| 6* | В4-6 | **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. | Q2 | 0.210 | 20 |
| 7* | Г8-1 | **Katerova Z**, Todorova D, Sergiev I (2017) Plant secondary metabolites and some plant growth regulators elicited by UV irradiation, light and/or | – | – | 15 |

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|---|---|---|---|---|---|
| | | shade. In: Ghorbanpour M., Varma A. (eds) Medicinal plants and environmental challenges, Springer, Chapter 6, pp. 97–121. ISBN: 978-3-319-68717-9. | | | |
| 8* | Г7-1 | **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. | Q2 | 0.211 | 20 |
| 9* | Г7-2 | **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. | Q2 | 0.211 | 20 |
| 10* | Г7-3 | **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. | Q3 | 0.251 | 15 |
| 11 | Г7-4 | 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 | – | 10 |
| 12* | Г8-2 | **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. | – | – | 15 |
| 13* | Г7-5 | **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. | Q1 | 4.658 | 25 |
| 14 | Г7-6 | 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. | Q1 | 4.658 | 25 |
| 15* | Г7-7 | **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. | Q1 | 4.5 (2022) | 25 |
| 16* | Г7-8 | 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 | Q3 | 0.3 | 15 |

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|---|---|---|---|---|---|
| | | waterlogging. Compt. rend. Acad. Bulg. Sci., 75, 7, 1089–1096. | | | |
| 17 | Г7-9 | 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. | Q3 | 0.3 | 15 |
| 18* | Г7-10 | **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. | Q3 (2023) | 0.3 (2022) | 15 |
| 19 | Г7-11 | 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 | – | 10 |
| 20* | Г7-12 | 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. | Q2 | 3.253 | 20 |
| 21 | Г8-3 | 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. | – | – | 15 |

* – Първи или кореспондиращ автор.

## 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”

**Общ брой публикации за участие в конкурса**: **21** публикации

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JCR IF на публикациите за участие в конкурса, в които З. Катерова-Ланджова е първи или кореспондиращ автор: **14.178**

| Списание | Брой Статии | № от списъка | Сума от JCR IF за съответната година |
|---|---|---|---|
| Theoretical and Experimental Plant Physiology | 1 | 1 | 1.532 |
| Turkish Journal of Botany | 2 | 2,3 | 1.178 |
| Biotechnology & Biotechnological Equipment | 1 | 5 | 0.379 |
| Compt. rend. Acad. Bulg. Sci. | 9 | 4,6,8,9,10,16,17,18,19 | 2.067 |
| Botanica Lithuanica | 1 | 11 | – |
| Plants | 3 | 13,14,15 | 13.816 |
| Life | 1 | 20 | 3.253 |

Май 2024 г. /З. Катерова-Ланджова/