

ОБЩ СПИСЪК

на научните публикации

на гл. ас. д-р Константина Валери Кочева

(в хронологичен ред)

1. Кочева К.В., Георгиев Г.И. (2002) Промени в клетъчната мембранна стабилност, относителното водно съдържание и свободния пролин в листа от два сорта ечемик (*Hordeum vulgare*, L.) при осмотичен стрес с ПЕГ 6000. Научна конференция с международно участие "Стара Загора 2002" том 2, Аграрни науки, растениевъдство и животновъдство, 218-221.

2. Kocheva K., Georgiev G. (2003) Evaluation of the reaction of two contrasting barley (*Hordeum vulgare*, L.) cultivars in response to osmotic stress with PEG 6000. *Bulg. J. Plant Physiol.*, Special issue, 290-294.

3. Kocheva K.V., Georgiev G.I. (2004) Relationship between water deficit and free proline accumulation in two barley cultivars under osmotic stress as affected by mineral nutrition. *Compt. Rend. Acad. Bulg. Sci.* 57(7): 77-80.

4. Kocheva K., Georgiev G., Goltsev V., Lambrev P., Karabaliev M. (2004) Evaluation of chlorophyll fluorescence and membrane injury in the leaves of barley cultivars under osmotic stress. *Bioelectrochem.* 63: 121-124.

5. Кочева К.В., Георгиев Г.И. (2004) Съдържание на пролин в млади ечемични растения, подложени на осмотичен стрес с ПЕГ 8000 и предтретиран с пролин и негови предшественици. Научна конференция с международно участие "Стара Загора-2004" Том 2, Аграрни науки. Растениевъдство. Част 2. Генетика и селекция, плевели, болести и неприятели, 271-275.

6. Kocheva K.V., Busheva M.C., Georgiev G.I., Lambrev P.H., Goltsev V.N. (2005) Influence of short term osmotic stress on the photosynthetic activity of barley seedlings. *Biol. Plant.* 49 (1): 145-149.

7. Kocheva K.V., Georgiev G.I. (2005) Assessment of solute accumulation in the leaves of barley seedlings under dehydration and rehydration. *Compt. Rend. Acad. Bulg. Sci.* 58 (4): 421-426.

8. Kocheva K.V., Georgiev G.I. (2005) Conductometric study of ion leakage from plant tissues. *Compt. Rend. Acad. Bulg. Sci.* 58 (7): 807-814.

9. Kocheva K.V., Georgiev G.I., Kochev V.K. (2005) A diffusion approach to the electrolyte leakage from plant tissues. *Physiol. Plant.* 125 (1): 1-9. Online ISSN: 1399-3054.

10. Кочева К.В., Георгиев Г.И. (2006) Воден стрес и свободен пролин в растенията. *Сп. БАН* 1: 31-38.

11. Кочева К.В., Георгиев Г.И. (2006) Кинетика на електролитното изтичане от растителни тъкани. Дифузионен модел. *Сп. БАН* 4: 46-53.

12. Кочева К.В., Георгиев Г.И. (2007) Използване на ПЕГ-тест за физиологична оценка на сухоустойчивостта на ечемика. *Изследвания върху полските култури (Field Crops Studies)*. IV (1): 43-48.

13. Kocheva K.V., Georgiev G.I., Vunkova-Radeva R.V. (2007) Contribution of mineral nutrition to the response of barley seedlings to polyethylene glycol-induced mild water stress. *J. Plant Nutr. Soil Sci.*, 170 (3): 392-397.

14. Kocheva K.V., Georgiev G.I. (2008) Changes in foliar proline concentration of osmotically stressed barley. *Z. Naturforsch.* 63c: 101-104.

15. **Kocheva K.V.**, Kartseva T., Landjeva S., Georgiev G.I. (2009) Physiological response of wheat seedlings to mild and severe osmotic stress. *Cereal Res. Comm.* 37(2): 199-208.
16. **Kocheva K.**, Kartseva T., Landjeva S., Georgiev G. (2009) Parameters of cell membrane stability and levels of oxidative stress in leaves of wheat seedlings treated with PEG 6000. *General and Applied Plant Physiology.* 35 (3-4): 127–133 (Special issue, Part I).
17. Landjeva S., **Kocheva K.**, Nenova V., Sepsi A., Molnár I., Schneider A., Karceva T., Ganeva G., Georgiev G. and Molnár-Láng M. (2012) *Aegilops geniculata* chromosome introgressions into bread wheat and their effects on plant physiological responses to abiotic stress. In: A. Börner and B. Kobijlski (Eds.) Proceedings of 15th International EWAC Conference, 7-11 Nov 2011, Novi Sad, Serbia, European Cereals Genetics Co-operative Newsletter, pp 35-41.
18. Petrov P.I., **Kocheva K.V.**, Petrova A.S., Georgiev G.I. (2012) Ion leakage and leaf anatomy of young barley plants under drought stress. *Genetics and Plant Physiology.* 2 (1-2): 15-23.
19. **Kocheva K.**, Landjeva S., Nenova V., Petrov P., Mincheva J., Georgiev G. (2012) Drought as a challenge for improved screening of cereal genotypes for sustainable plant production. *Advances in Bulgarian Science.* 57-59.
20. Лозанова Н., **Кочева К.**, Петров П., Георгиев Г. (2012) Съдържание на пролин и пигменти в листа от червена власатка (*Festuca rubra L.*) и английски райграс (*Lolium perenne L.*) при различни почвени и поливни условия. *Управление и устойчиво развитие.* 3(34): 98-100.
21. Landjeva S., **Kocheva K.**, Kartseva T., Sepsi A., Molnár I., Schneider A., Georgiev G., Molnár-Láng M. (2012) Molecular cytogenetic identification of a wheat-*Aegilops geniculata* Roth spontaneous chromosome substitution and its effects on the physiological responses of seedlings to osmotic stress. *Plant Breeding* 131: 81-87.
22. Chipilski R.R., **Kocheva K.V.**, Nenova V.R., Georgiev G.I. (2012) Physiological responses of two wheat cultivars to soil drought. *Z. Naturforsch.* 67c: 181-186.
23. **Kocheva K.V.**, Petrov P.I., Georgiev G.I. (2013) Physiological and anatomical responses of wheat to induced dehydration and rehydration. *Central European Journal of Biology* 8 (5): 499-503.
24. Simeonov F., **Kocheva K.V.**, Georgiev G.I., Kochev V.K. (2013) A simple impedimetric device for in situ analysis of plant tissues. *Compt. Rend. Acad. Bulg. Sci.* 66 (7): 969-974.
25. **Kocheva K.V.**, Georgiev G.I., Kochev V.K. (2014) An improvement of the diffusion model for assessment of drought stress response in plants. *Physiologia Plantarum* 150: 88-94.
26. **Kocheva K.**, Nenova V., Karceva T., Petrov P., Georgiev G., Landjeva S., Börner A. (2014) Changes in water status, membrane stability and antioxidant capacity of wheat seedlings carrying different *Rht-B1* dwarfing alleles under drought stress. *Journal of Agronomy and Crop Science* 200 (2): 83-91.
27. **Kocheva K.**, Landjeva S., Georgiev G. (2014) Variation in ion leakage parameters of two wheat genotypes with different *Rht-B1* alleles in response to drought. *Journal of Biosciences* 39(5): 753-759.
28. Nenova V., **Kocheva K.**, Petrov P., Karceva T., Georgiev G., Landjeva S., Börner A. (2014) Wheat *Rht-B1* near-isogenic lines exhibit different photosynthetic responses to water deficit. *Journal of Agronomy and Crop Science* 200(6): 434-443.
29. **Kocheva K.V.**, Tasheva K., Georgiev G., Karabaliev M. (2014) Electrolyte leakage and K⁺ content in the leaves of wheat plants subjected to PEG treatment. *Science and Technologies* IV(6): 47-50.

30. Kocheva K.V. and Georgiev G.I. (2014) Effect of sample preparation on parameters of electrolyte leakage kinetics from *Trifolium* leaves. *Compt. Rend. Acad. Bulg. Sci.* 67 (8): 1107-1112.

31. Nenova V. and **Kocheva K.V.** (2014) Interaction of chlorsulfuron treatment and iron deficiency or excess in young pea plants. *Genetics and Plant Physiology* Special Issue (Part 2) 4(3-4):140-154.

32. Kocheva K.V., Chavdarova M., Gesheva E., Doncheva S., Georgiev G. (2015) Implementation of a kinetic model for evaluation of leaf ion leakage from sunflower (*Helianthus annuus*) plants subjected to high zinc and lead concentrations. *Genetics and Plant Physiology* Special Issue 5 (1), 23-28.

33. Кочева К.В., Симеонов Ф., Георгиев Г., Кочев В. (2015) Изследване на промените при дехидратация в листа от обикновена пшеница (*Triticum aestivum*, L.) чрез електрохимична импедансна спектроскопия. *Сн. БАН* 2: 9-14.

34. Kocheva K.V., Karabaliev M., Georgiev G. (2015) PEG 8000 induced osmotic stress causes differential efflux of metal cations from wheat leaves. *Science and Technologies*, V(6): 157-161.

**Публикации, свързани със защитата на научна и образователна степен „доктор“
(извън конкурса):**

1. В международни списания с IF – 2
2. В български списания с IF – 3
3. В български издания без IF – 2
4. В сборници от конференции в пълен текст – 2

Общо: 9 публикации

Публикации след защитата на степен „доктор“ за участие в конкурса:

1. В международни списания с – 11, с общ IF 19.274
2. В български списания с IF – 2
3. В български списания без IF – 11
4. В чуждестранни сборници от конференции в пълен текст – 1

Общо: 25 публикации

Първи автор в 17 (25) публикации.

Забелязани цитати – 145 на 13 от публикациите, *h index* = 4 (Scopus)

СПИСЪК

на научните публикации

на гл. ас. д-р Константина Валери Кочева

във връзка с участие в конкурс за академична длъжност „доцент“

Публикации в международни списания с IF:

1. **Kocheva K.V.**, Georgiev G.I., Kochev V.K. (2005) A diffusion approach to the electrolyte leakage from plant tissues. *Physiol. Plant.* 125 (1): 1-9. Online ISSN: 1399-3054.
2. **Kocheva K.V.**, Georgiev G.I., Vunkova-Radeva R.V. (2007) Contribution of mineral nutrition to the response of barley seedlings to polyethylene glycol-induced mild water stress. *J. Plant Nutr. Soil Sci.*, 170 (3): 392-397. Online ISSN: 1522-2624.
3. **Kocheva K.V.**, Georgiev G.I. (2008) Changes in foliar proline concentration of osmotically stressed barley. *Z. Naturforsch.* 63c: 101-104. ISSN 0939-5075.
4. **Kocheva K.V.**, Kartseva T., Landjeva S., Georgiev G.I. (2009) Physiological response of wheat seedlings to mild and severe osmotic stress. *Cereal Res. Comm.* 37(2): 199-208. ISSN 0133-3720 (Print), 1788-9170 (Online).
5. Landjeva S., **Kocheva K.**, Kartseva T., Sepsi A., Molnár I., Schneider A., Georgiev G., Molnár-Láng M. (2012) Molecular cytogenetic identification of a wheat-*Aegilops geniculata* Roth spontaneous chromosome substitution and its effects on the physiological responses of seedlings to osmotic stress. *Plant Breeding* 131: 81-87. Online ISSN: 1439-0523.
6. Chipilski R.R., **Kocheva K.V.**, Nenova V.R., Georgiev G.I. (2012) Physiological responses of two wheat cultivars to soil drought. *Z. Naturforsch.* 67c: 181-186. ISSN 0939-5075.
7. **Kocheva K.V.**, Petrov P.I., Georgiev G.I. (2013) Physiological and anatomical responses of wheat to induced dehydration and rehydration. *Central European Journal of Biology* 8: 499-503. ISSN: 1895-104X (Print), 1644-3632 (Online).
8. **Kocheva K.V.**, Georgiev G.I., Kochev V.K. (2014) An improvement of the diffusion model for assessment of drought stress response in plants. *Physiologia Plantarum* 150: 88-94. Online ISSN: 1399-3054.
9. **Kocheva K.**, Nenova V., Karceva T., Petrov P., Georgiev G., Landjeva S., Börner A. (2014) Changes in water status, membrane stability and antioxidant capacity of wheat seedlings carrying different *Rht-B1* dwarfing alleles under drought stress. *Journal of Agronomy and Crop Science* 200 (2): 83-91. ISSN: 1439-037X (Online).
10. **Kocheva K.**, Landjeva S., Georgiev G. (2014) Variation in ion leakage parameters of two wheat genotypes with different *Rht-B1* alleles in response to drought. *Journal of Biosciences* 39(5): 753-759. ISSN: 0250-5991 (Print) ISSN: 0973-7138 (Online).
11. Nenova V., **Kocheva K.**, Petrov P., Karceva T., Georgiev G., Landjeva S., Börner A. (2014) Wheat *Rht-B1* near-isogenic lines exhibit different photosynthetic responses to water deficit. *Journal of Agronomy and Crop Science* 200(6): 434-443. ISSN: 1439-037X (Online).

Публикации в български списания (с и без IF) и в чуждестранни сборници от конференции в пълен текст:

12. **Кочева К.В.**, Георгиев Г.И. (2006) Кинетика на електролитното изтичане от растителни тъкани. Дифузионен модел. *Сп. БАН* 4: 46-53. ISSN 0007-3989.
13. **Кочева К.В.**, Георгиев Г.И. (2007) Използване на ПЕГ-тест за физиологична оценка на сухоустойчивостта на ечемика. *Изследвания върху полските култури (Field Crops Studies)*. IV (1): 43-48. ISSN 1312-3882.
14. **Kocheva K.**, Kartseva T., Landjeva S., Georgiev G. (2009) Parameters of cell membrane stability and levels of oxidative stress in leaves of wheat seedlings treated with PEG 6000. *General and Applied Plant Physiology*. 35 (3-4): 127–133 (Special issue, Part I). ISSN 1312-8183 (Print), ISSN 1312-8221 (Online).
15. Landjeva S., **Kocheva K.**, Nenova V., Sepsi A., Molnár I., Schneider A., Karceva T., Ganeva G., Georgiev G. and Molnár-Láng M. (2012) *Aegilops geniculata* chromosome introgressions into bread wheat and their effects on plant physiological responses to abiotic stress. In: A. Börner and B. Kobijlski (Eds.) Proceedings of 15th International EWAC Conference, 7-11 Nov 2011, Novi Sad, Serbia, European Cereals Genetics Co-operative Newsletter, pp 35-41.
16. Petrov P.I., **Kocheva K.V.**, Petrova A.S., Georgiev G.I. (2012) Ion leakage and leaf anatomy of young barley plants under drought stress. *Genetics and Plant Physiology*. 2 (1-2): 15-23. ISSN 1312-8183 (Print), 1312-8221 (Online).
17. **Kocheva K.**, Landjeva S., Nenova V., Petrov P., Mincheva J., Georgiev G. (2012) Drought as a challenge for improved screening of cereal genotypes for sustainable plant production. *Advances in Bulgarian Science*. 57-59. ISSN 1312-6164.
18. Лозанова Н., **Кочева К.**, Петров П., Георгиев Г. (2012) Съдържание на пролин и пигменти в листа от червена власатка (*Festuca rubra L.*) и английски райргас (*Lolium perenne L.*) при различни почвени и поливни условия. *Управление и устойчиво развитие*. 3(34): 98-100. ISSN 1311-4506.
19. Simeonov F., **Kocheva K.V.**, Georgiev G.I., Kochev V.K. (2013) A simple impedimetric device for in situ analysis of plant tissues. *Compt. Rend. Acad. Bulg. Sci.* 66 (7): 969-974. ISSN 1310-1331.
20. **Kocheva K.V.**, Tasheva K., Georgiev G., Karabaliev M. (2014) Electrolyte leakage and K⁺ content in the leaves of wheat plants subjected to PEG treatment. *Science and Technologies* IV(6): 47-50. ISSN 1314-4111.
21. **Kocheva K.V.** and Georgiev G.I. (2014) Effect of sample preparation on parameters of electrolyte leakage kinetics from *Trifolium* leaves. *Compt. Rend. Acad. Bulg. Sci.* 67 (8): 1107-1112. ISSN 1310-1331.
22. Nenova V. and **Kocheva K.V.** (2014) Interaction of chlorsulfuron treatment and iron deficiency or excess in young pea plants. *Genetics and Plant Physiology* Special Issue (Part 2) 4(3-4):140-154. ISSN 1314-6394.
23. **Kocheva K.V.**, Chavdarova M., Gesheva E., Doncheva S., Georgiev G. (2015) Implementation of a kinetic model for evaluation of leaf ion leakage from sunflower (*Helianthus annuus*) plants subjected to high zinc and lead concentrations. *Genetics and Plant Physiology* Special Issue 5 (1), 23-28. ISSN 1314-6394.
24. **Кочева К.В.**, Симеонов Ф., Георгиев Г., Кочев В. (2015) Изследване на промените при дехидратация в листа от обикновена пшеница (*Triticum aestivum*, L.) чрез електрохимична импедансна спектроскопия. *Сп. БАН* 2: 9-14. ISSN: 0007-3989.

25. **Kocheva K.V.**, Karabaliev M., Georgiev G. (2015) PEG 8000 induced osmotic stress causes differential efflux of metal cations from wheat leaves. *Science and Technologies*, V(6): 157-161. ISSN 1314-4111.

**Класификация по тип издания на научните публикации
на гл.ас. д-р Константина Валери Кочева**

| Класификация на научните публикации | Брой | № от списъка | IF (JCR 2014) | Общ IF |
|--|------|--------------|---------------|--------|
| Международни списания с IF | | | | |
| <i>Physiologia Plantarum</i> | 2 | 1, 8 | 3.138 | 6.276 |
| <i>Journal of Plant Nutrition and Soil Science</i> | 1 | 2 | 1.459 | 1.459 |
| <i>Zeitschrift fur Naturforschung</i> | 2 | 3, 6 | 0.552 | 1.140 |
| <i>Cereal Research Communications</i> | 1 | 4 | 0.607 | 0.607 |
| <i>Plant Breeding</i> | 1 | 5 | 1.598 | 1.598 |
| <i>Central European Journal of Biology</i> | 1 | 7 | 0.710 | 0.710 |
| <i>Journal of Agronomy and Crop Science</i> | 2 | 9, 11 | 2.444 | 4.888 |
| <i>Journal of Biosciences</i> | 1 | 10 | 2.064 | 2.064 |
| Български списания с IF | | | | |
| <i>Compt Rend Acad Bulg Sci</i> | 2 | 19, 21 | 0.284 | 0.568 |
| Български списания без IF | | | | |
| <i>General and Applied Plant Physiology</i> | 1 | 14 | | |
| <i>Genetics and Plant Physiology</i> | 3 | 16, 22, 23 | | |
| <i>Field Crop Studies</i> | 1 | 13 | | |
| <i>Advances of Bulgarian Science</i> | 1 | 17 | | |
| <i>Science and Technologies</i> | 2 | 20, 25 | | |
| <i>Списание на БАН</i> | 2 | 12, 24 | | |
| <i>Управление и устойчиво развитие</i> | 1 | 18 | | |
| Сборници от международни научни конференции | | | | |
| <i>Proceedings of EWAC</i> | 1 | 15 | | |
| Общо | 25 | | | 19.274 |

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