

## Zoznam publikačnej činnosti

doc. RNDr. Marek Vaculík PhD.

### ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách

- ABA01 Martinka, Michal (aut) [UKOPRBFR] (90%) - Vaculík, Marek (aut) [UKOPRBFR] (5%) - Lux, Alexander (aut) [UKOPRBFR] (5%): Plant Cell Responses to Cadmium and Zinc  
Lit.: 252 zázň., 3 obr.  
In: Applied Plant Cell Biology: Cellular Tools and Approaches for Plant Biotechnology. - Berlin, Heidelberg : Springer-Verlag, 2014. - S. 209-246 [3,5 AH]. - ISSN 1861-1370. - ISBN 978-3-642-41786-3  
*Edícia*: Series: Plant Cell Monographs, Vol. 22  
*Ohlasy* (23):  
[o1] 2014 ~ Chen, Y. - Mo, H.Z. - Zheng, M.Y. - Xian, M. - Qi, Z.Q. - Li, Y.Q. - Hu, L.B. - Chen, J. - Yang, L.F.: Plos ONE, Vol. 9, No. 10, 2014, Art. No. e110904 -- SCI  
[o1] 2015 ~ Asgher, M. - Khan, M.I.R. - Anjum, N.A. - Khan, N.A.: Protoplasma, Vol. 252, No. 2, 2015, s. 399-413 -- SCI ; SCOPUS  
[o3] 2015 ~ Xu, Y. - Chu, L. - Jin, Q. - Wang, Y. - Chen, X. - Zhao, H. - Xue, Z.: Transcriptome-wide identification of miRNAs and their targets from *Typha angustifolia* by RNA-Seq and their response to cadmium stress. In: PloS One, Vol. 10, No. 4, 2015, Art. No. e012546  
[o1] 2016 ~ Thomas, C.L. - Alcock, T.D. - Graham, N.S. - Hayden, R. - Matterson, S. - Wilson, L. - Young, D. - Dupuy, L.X. - White, P.J. - Hammond, J.P. - Danku, J.M.C. - Salt, D.E. - Sweeney, A. - Bancroft, I. - Broadley, M.R.: BMC Plant Biology, Vol. 16, No. 1, 2016, Art. No. 214 -- SCI ; SCOPUS  
[o1] 2016 ~ Versieren, L. - Evers, S. - De Schamphelaere, K. - Blust, R. - Smolders, E.: Environmental Toxicology and Chemistry, Vol. 35, No. 10, 2016, s. 2483-2492 -- SCI ; SCOPUS  
[o1] 2016 ~ Wei, X. - Lü, L. - Li, G. - Tang, Y.: Linze Kexue/Scientia Silvae Sinicae, Vol. 52, No. 9, 2016, s. 133-138 -- SCOPUS  
[o1] 2017 ~ Versieren, L. - Evers, S. - AbdElgawad, H. - Asard, H. - Smolders, E.: Environmental Toxicology and Chemistry, Vol. 36, No. 1, 2017, s. 220-230 -- SCI ; SCOPUS  
[o1] 2017 ~ Ranathunge, K. - Kim, Y.X. - Wassmann, F. - Kreszies, T. - Zeisler, V. - Schreiber, L.: Annals of Botany, Vol. 119, No. 4, 2017, s. 629-643 -- SCI  
[o1] 2018 ~ Jian, H.J. - Yang, B. - Zhang, A.X. - Ma, J.Q. - Ding, Y.R. - Chen, Z.Y. - Li, J.N. - Xu, X.F. - Liu, L.Z.: International Journal of Molecular Sciences, Vol. 19, No. 5, 2018, Art. No. 1431 -- SCI  
[o1] 2018 ~ Bibbiani, S. - Colzi, I. - Taiti, C. - Nissim, W.G. - Papini, A. - Mancuso, S. - Gonnelli, C.: Plant Science, Vol. 271, June, 2018, s. 1-8 -- SCI  
[o1] 2018 ~ Gitto, A. - Fricke, W.: Physiologia Plantarum, Vol. 164, No. 2, 2018, s. 176-190 -- SCI  
[o1] 2018 ~ Simkova, L. - Fialova, I. - Vaculikova, M. - Luxova, M.: Silicon, Vol. 10, No. 6, 2018, s. 2907-2910 -- SCI  
[o3] 2015 ~ Ciamporova, M. - Stanova, A. - Durisova, E. - Banasova, V.: Tissue organization and cell ultrastructure in the roots of three arabidopsis species grown at different zinc concentrations. In: Modern Phytomorphology, Vol. 7, 2015, s.67-74  
[o1] 2019 ~ Markert, B. - Kim, E.S. - Franzle, S. - Wunschmann, S. - Wang, M.E. - Djingova, R. - Urosevic, M.A. - Liu, S.R. - Hillman, J. - Diatta, J.B.: Teaching Green Analytical Chemistry on the Example of Bioindication and Biomonitoring (B& B) Technologies. In: Green analytical chemistry: past, present and perspectives. Singapore : Springer-Verlag, 2019, S. 19-43 -- BKCI-S  
[o1] 2019 ~ Wang, S.F. - Sun, J.J. - Li, S.T. - Lu, K. - Meng, H.J. - Xiao, Z.C. - Zhang, Z. - Li, J.N. - Luo, F. - Li, N.N.: Plant and Soil, Vol. 441, No. 1-2, 2019, s. 71-87 -- SCI  
[o1] 2019 ~ Jia, H.L. - Wang, X.H. - Wei, T. - Zhou, R. - Muhammad, H. - Hua, L. - Ren, X.H. - Guo, J. - Ding, Y.Z.: Environmental and Experimental Botany, Vol. 167, 2019, Art. No. 103829 -- SCI  
[o1] 2020 ~ Labudda, M. - Muszynska, E. - Gietler, M. - Rozanska, E. - Rybarczyk-Ponska, A. - Fidler, J. - Prabučka, B. - Dababat, A.A.: Efficient antioxidant defence systems of spring barley in response to stress induced jointly by the cyst nematode parasitism and cadmium exposure. In: Plant and Soil, Vol. 456, No. 1-2, 2020, s. 189-206 -- SCOPUS

[o1] 2020 ~ Brankov, M. - Simio, M. - Dolijanovio, Z. - Rajkovio, M. - Mandio, V. - Dragicevio, V.: The response of maize lines to foliar fertilizing. In: Agriculture (Switzerland), Vol. 10, No. 9, 2020, Art. No. 365 -- SCOPUS

[o1] 2020 ~ Zhou, Y.-M. - Long, S.-S. - Li, B.-Y. - Huang, Y.-Y. - Li, Y.-J. - Yu, J.-Y. - Du, H.-H. - Khan, S. - Lei, M.: Enrichment of cadmium in rice (*Oryza sativa* L.) grown under different exogenous pollution sources. In: Environmental Science and Pollution Research, Vol. 27, No. 35, 2020, s. 44249-44256 -- SCOPUS

[n1] 2021 zz ~ Yang, X. - Kang, Y. - Liu, Y. - Shi, M. - Zhang, W. - Fan, Y. - Yao, Y. - Li, H. - Qin, S.: Integrated analysis of miRNA-mRNA regulatory networks of potato (*Solanum tuberosum* L.) in response to cadmium stress. In: Ecotoxicology and Environmental Safety, Vol. 224, 2021, Art. No. 112682 -- SCOPUS

[n1] 2021 zz ~ Li, C. - Wu, J. - Blamey, F.P.C. - Wang, L. - Zhou, L. - Paterson, D.J. - Van Der Ent, A. - Fernandez, V. - Lombi, E. - Wang, Y. - Kopittke, P.M.: Non-glandular trichomes of sunflower are important in the absorption and translocation of foliar-applied Zn. In: Journal of Experimental Botany, Vol. 72, No. 13, 2021, s. 5079-5092 -- SCOPUS

[n1] 2021 zz ~ Corso, M. - An, X. - Jones, C.Y. - Gonzalez-Doblas, V. - Schwartzman, M.S. - Malkowski, E. - Willats, W.G.T. - Hanikenne, M. - Verbruggen, N.: Adaptation of *Arabidopsis halleri* to extreme metal pollution through limited metal accumulation involves changes in cell wall composition and metal homeostasis. In: New Phytologist, Vol. 230, No. 2, 2021, s. 669-682 -- SCOPUS

[n1] 2021 zz ~ Mapodzeke, J.M. - Adil, M.F. - Sehar, S. - Karim, M.F. - Saddique, M.A.B. - Ouyang, Y. - Shamsi, I.H.: Myriad of physio-genetic factors determining the fate of plant under zinc nutrient management. In: Environmental and Experimental Botany, Vol. 189, 2021, Art. No. 104559 -- SCOPUS

ABA02 Líška, Denis (aut) [UKOPDDPP] (20% [0,676 AH]) - Soukup, Milan (aut) [UKOPRBFRs] (20% [0,676 AH]) - Lukačová, Zuzana (aut) [UKOPRBFR] (20% [0,676 AH]) - Bokor, Boris (aut) [UKOVP] (20% [0,676 AH]) - Vaculík, Marek (aut) [UKOPRBFR] (20% [0,676AH]): Mechanisms of Silicon-Mediated Alleviation of Abiotic Stress in Plants : Recent Advances and Future Perspective  
Lit.: 260 záz., 2 obr.  
In: Silicon in Plants: Advances and Future Prospect. - Boca Raton : CRC Press, 2017. - S. 1-27 [3,38 AH]. - ISBN 978-1-4987-3949-8

#### **ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách**

ACB01 Vaculík, Marek (aut) [UKOPRBFR] (100%): Základné princípy fytoremediácií. - 1. vyd. - 2018 : Univerzita Komenského v Bratislave, 2018. - 90 s. [5,47 AH]  
Lit.: 154 záz.  
ISBN 978-80-223-4514-9  
Čiamporová, Milada [rec.]  
Lux, Alexander [rec.]

#### **ADC Vedecké práce v zahraničných karentovaných časopisoch**

ADC01 Vaculík, Marek (aut) [UKOPRBFR] (40%) - Lux, Alexander (aut) [UKOPRBFR] (20%) - Luxová, Miroslava (aut) (20%) - Tanimoto, Eiichi (aut) (10%) - Lichtscheidl, Irene (aut) (10%): Silicon mitigates cadmium inhibitory effects in young maize plants  
Lit.: 40 záz.

In: Environmental and Experimental Botany. - Vol. 67, No. 1 (2009), s. 52-58. - ISSN 0098-8472

*Indikátor časopisu:*

IF (JCR) 2009=3,164

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[o1] 2011 ~ Yang, Y. - Zhang, Y. - Wei, X. - You, J. - Wang, W. - Lu, J. - Shi, R.: Ecotoxicology and Environmental Safety, Vol. 74, No. 4, 2011, s. 733-740 -- SCI ; SCOPUS

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- [o1] 2012 ~ Huang, Y.Z. - Zhang, W.Q. - Zhao, L.J.: Chemistry and Ecology, Vol. 28, No. 4, 2012, s. 341-354 -- SCI ; SCOPUS
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- [o1] 2016 ~ Khaliq, A. - Ali, S. - Hameed, A. - Farooq, M.A. - Farid, M. - Shakoor, M.B. - Mahmood, K. - Ishaque, W. - Rizwan, M.: Archives of Agronomy and Soil Science, Vol. 62, No. 5, 2016, s. 633-647 -- SCI ; SCOPUS
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ADC03 Lux, Alexander (aut) [UKOPRBFR] (25%) - Vaculík, Marek (aut) [UKOPRBFR] (25%) - Martinka, Michal (aut) [UKOPRBFR] (25%) - Lišková, Desana (aut) (10%) - Kulkarni, Manoj G. (aut) (5%) - Stirk, Wendy A. (aut) (5%) - Van Staden, Johannes (aut) (5%): Cadmium induces hypodermal periderm formation in the roots of the monocotyledonous medicinal plant *Merwillia plumbea*

Lit.: 43 záz., 8 obr., 1 tab.

In: *Annals of Botany*. - Vol. 107, No. 2 (2011), s. 285-292. - ISSN 0305-7364

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ADC04 Vaculík, Marek (aut) [UKOPRBFR] (50%) - Landberg, Tommy (aut) (10%) - Greger, Maria (aut) (10%) - Luxová, Miroslava (aut) [UKOEXRP] (10%) - Vaculíková, Miroslava (aut) [UKOPRBBO] (10%) - Lux, Alexander (aut) [UKOPRBFR] (10%): Silicon modifies root anatomy, and uptake and subcellular distribution of cadmium in young maize plants

Lit.: 73 zázn., 8 obr., 2 tab.

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Lit.: 61 zázň., 7 obr.

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ADC11 Bokor, Boris (aut) [UKOVP] (50%) - Vaculík, Marek (aut) [UKOPRBFR] (30%) - Slováková, Ľudmila (aut) [UKOPRBFR] (5%) - Masarovič, Daniel (aut) [UKOPRBFR] (5%) - Lux, Alexander (aut) [UKOPRBFR] (10%): Silicon does not always mitigate zinc toxicity in maize

Lit.: 55 zázň., 6 obr., 1 tab.

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IF (JCR) 2014=1,584

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wos-jcr -- Q2 [plant sciences] -- 2014

Ohlasy (24):

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[o1] 2020 ~ Hu, Y. - Wang, Y. - Liang, Y. - Guo, J. - Gong, H. - Xu, Z.: Silicon alleviates mercury toxicity in garlic plants. In: Journal of Plant Nutrition, Vol. 43, No. 16, 2020, s. 2508-2517 -- SCOPUS

[o1] 2020 ~ Morina, F. - Kupper, H.: Direct inhibition of photosynthesis by Cd dominates over inhibition caused by micronutrient deficiency in the Cd/Zn hyperaccumulator *Arabidopsis halleri*. In: Plant Physiology and Biochemistry, Vol. 155, 2020, s. 252-261 -- SCOPUS

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- [o1] 2020 ~ Zhao, Y. - Liu, M. - Guo, L. - Yang, D. - He, N. - Ying, B. - Wang, Y.: Influence of silicon on cadmium availability and cadmium uptake by rice in acid and alkaline paddy soils. In: *Journal of Soils and Sediments*, Vol. 20, No. 5, 2020, s. 2343-2353 -- SCOPUS
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- [n1] 2021 zz ~ Zhang, H.-M. - Kang, S. - Peng, J. - Nie, Y.-L. - Ding, S.-S. - Sun, G.-L. - Fan, B.: Effect of Silicon Fertilizer, Microbial Agents and Organic Fertilizer on Absorption and Accumulation of Cadmium in *Ligusticum chuanxiong* Hort. In: *Chinese Pharmaceutical Journal*, Vol. 56, No. 22, 2021, s. 1796-1802 -- SCOPUS
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- [n1] 2021 zz ~ da Silva Cunha, L.F. - de Oliveira, V.P. - do Nascimento, A.W.S. - da Silva, B.R.S. - Batista, B.L. - Alsahli, A.A. - Lobato, A.K.D.S.: Leaf application of 24-epibrassinolide mitigates cadmium toxicity in young *Eucalyptusurophylla* plants by modulating leaf anatomy and gas exchange. In: *Physiologia Plantarum*, Vol. 173, No. 1, 2021, s. 67-87 -- SCOPUS
- [n1] 2021 zz ~ Alam, P. - Balawi, T.H. - Altalayan, F.H. - Hatamleh, A.A. - Ashraf, M. - Ahmad, P.: Silicon attenuates the negative effects of chromium stress in tomato plants by modifying antioxidant enzyme activities, ascorbate-glutathione cycle and glyoxalase system. In: *Acta Physiologiae Plantarum*, Vol. 43, No. 7, 2021, Art. No. 110 -- SCOPUS
- [n1] 2021 zz ~ Dong, Y. - Liang, L. - Lin, L. - Li, H. - Liao, M. - Sun, G. - Liang, D. - Xia, H. - Wang, J. - Wang, X. - Tu, L. - Tang, Y.: Effects of diethyl aminoethyl hexanoate (DA-6) on the growth and cadmium accumulation of tomato seedlings. In: *Environmental Progress and Sustainable Energy*, Vol. 40, No. 4, 2021, Art. No. e13627 -- SCOPUS
- [n1] 2021 zz ~ Abd El-Mageed, T.A. - Shaaban, A. - Abd El-Mageed, S.A. - Semida, W.M. - Rady, M.O.A.: Silicon Defensive Role in Maize (*Zea mays* L.) against Drought Stress and Metals-Contaminated Irrigation Water. In: *Silicon*, Vol. 13, No. 7, 2021, s. 2165-2176 -- SCOPUS
- [n1] 2021 zz ~ Mukarram, M. - Khan, M.M.A. - Corpas, F.J.: Silicon nanoparticles elicit an increase in lemongrass (*Cymbopogon flexuosus* (Steud.) Wats) agronomic parameters with a higher essential oil yield. In: *Journal of Hazardous Materials*, Vol. 412, 2021, Art. No. 125254 -- SCOPUS

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- [n1] 2021 zz ~ Chen, Z. - Zhang, J. - Cao, B. - Xu, K.: Alleviating effects of silicon on cadmium toxicity in ginger (*Zingiber officinale* Roscoe). In: *European Journal of Horticultural Science*, Vol. 86, No. 5, 2021, s. 469-479 -- SCOPUS
- [n1] 2021 zz ~ Mapodzeke, J.M. - Adil, M.F. - Wei, D. - Joan, H.I. - Ouyang, Y. - Shamsi, I.H.: Article modulation of key physio-biochemical and ultrastructural attributes after synergistic application of zinc and silicon on rice under cadmium stress. In: *Plants*, Vol. 10, No. 1, 2021, Art. No. 87 -- SCOPUS

ADC14 Vaculík, Marek (aut) [UKOPRBFR] (50%) - Mrázová, Anna (aut) (40%) - Lux, Alexander (aut) [UKOPRBFR] (10%): Antimony (SbIII) reduces growth, declines photosynthesis, and modifies leaf tissue anatomy in sunflower (*Helianthus annuus* L.)

Lit.: 31 zázn., 5 obr., 3 tab.

In: *Environmental Science and Pollution Research*. - Vol. 22, No. 23 (2015), s. 18699-18706. - ISSN 0944-1344

*Registrované v:*

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SCOPUS SCOPUS

*Indikátor časopisu:*

IF (JCR) 2015=2,760

*Kvartil Q:*

wos-jcr -- Q1 [environmental sciences] -- 2014

*Ohlasy (11):*

[o1] 2016 ~ Jankovská, I. - Sloup, V. - Száková, J. - Langrová, I. - Sloup, S.: *Environmental Science and Pollution Research*, Vol. 23, No. 19, 2016, s. 19126-19133 -- SCOPUS

[o1] 2017 ~ Ortega, A. - Garrido, I. - Casimiro, I. - Espinosa, F.: *PLoS ONE*, Vol. 12, No. 9, 2017, Art. No. e0183991 -- SCI ; SCOPUS

[o1] 2018 ~ Zhou, X.J. - Sun, C.Y. - Zhu, P.F. - Liu, F.: *Frontiers in Plant Science*, Vol. 9, May, 2018, Art. No. 579 -- SCI

[o1] 2019 ~ Long, J.M. - Tan, D. - Deng, S.H. - Li, B.Y. - Ding, D. - Lei, M.: *Environmental Pollution*, Vol. 249, 2019, s. 414-422 -- SCI

[o1] 2019 ~ Natasha - Shahid, M. - Khalid, S. - Dumat, C. - Pierart, A. - Niazi, N.K.: *Applied Geochemistry*, Vol. 106, 2019, s. 45-59 -- SCI

[o1] 2020 ~ Cao, W. - Gong, J. - Zeng, G. - Song, B. - Zhang, P. - Li, J. - Fang, S. - Qin, L. - Ye, J. - Cai, Z.: Mutual effects of silver nanoparticles and antimony(III)/V co-exposed to *Glycine max*(L.) Merr. in hydroponic systems: uptake, translocation, physiochemical responses, and potential mechanisms. In: *Environmental Science: Nano*, Vol. 7, No. 9, 2020, s. 2691-2707 -- SCOPUS

[o1] 2020 ~ Cao, W. - Gong, J. - Zeng, G. - Song, B. - Zhang, P. - Li, J. - Fang, S. - Tang, S. - Ye, J. - Cai, Z.: Potential Interactions between Three Common Metal Oxide Nanoparticles and Antimony(III/V) Involving Their Uptake, Distribution, and Phytotoxicity to Soybean. In: *ACS Sustainable Chemistry and Engineering*, Vol. 8, No. 27, 2020, s. 10125-10141 -- SCOPUS

[o1] 2020 ~ Gu, T. - Yu, H. - Li, F. - Zeng, W. - Wu, X. - Shen, L. - Yu, R. - Liu, Y. - Li, J.: Antimony-oxidizing bacteria alleviate Sb stress in *Arabidopsis* by attenuating Sb toxicity and reducing Sb uptake. In: *Plant and Soil*, Vol. 452, No. 1-2, 2020, s. 397-412 -- SCOPUS

[n1] 2021 zz ~ Mutia, T.M. - Fridriksson, T. - Magnusson, S.H. - Jonsdottir, I.S.: Concentrations of sulphur and trace elements in subarctic soils and mosses in relation to geothermal power plants at Hengill, Iceland - ecological implications. In: *Geothermics*, Vol. 95, 2021, Art. No. 102136 -- SCOPUS

[n1] 2021 zz ~ Singh, S. - Kumar, V. - Datta, S. - Dhanjal, D.S. - Singh, S. - Kumar, S. - Kapoor, D. - Prasad, R. - Singh, J.: Physiological responses, tolerance, and remediation strategies in plants exposed to metalloids. In: *Environmental Science and Pollution Research*, Vol. 28, No. 30, 2021, s. 40233-40248 -- SCOPUS

[n1] 2021 zz ~ Luo, W.-T. - He, L. - Li, F. - Li, J.-K.: Exogenous Salicylic Acid Alleviates the Antimony (Sb) Toxicity in Rice (*Oryza sativa* L.) Seedlings. In: *Journal of Plant Growth Regulation*, Vol. 40, No. 3, 2021, s. 1327-1340 -- SCOPUS

ADC15 Vaculíková, Miroslava (aut) [UKOPRBBO] (30%) - Romeo, Stefania (aut) (20%) - Minnocci, Antonio (aut) (10%) - Luxová, Miroslava (aut) (10%) - Vaculík, Marek (aut) [UKOPRBFR] (10%) - Lux, Alexander (aut) [UKOPRBFR] (10%) - Sebastiani, Luca (aut) (10%): Anatomical, biochemical and morphological responses of poplar *Populus deltoides* clone Lux to Zn excess  
 Lit.: 42 zázn., 8 obr., 4 tab.  
 In: Environmental and Experimental Botany. - Vol. 109, January (2015), s. 235-243. - ISSN 0098-8472  
*Registrované v:*  
 WOS CC Web of Science Core Collection  
 SCOPUS SCOPUS  
*Indikátor časopisu:*  
 IF (JCR) 2015=3,712  
*Kvartil Q:*  
 wos-jcr -- Q1 [plant sciences] ; Q1 [environmental sciences] -- 2015  
*Ohlasy (22):*  
 [o1] 2016 ~ Luo, Z.B. - He, J.L. - Polle, A. - Rennenberg, H.: Biotechnology Advances, Vol. 34, No. 6, 2016, s. 1131-1148 -- SCI  
 [o1] 2016 ~ Xu, Z. - Chen, L. - Tang, S. - Zhuang, L. - Yang, W. - Tu, L. - Tan, B. - Zhang, L.: Trees - Structure and Function, Vol. 30, No. 6, 2016, s. 2019-2027 -- SCI ; SCOPUS  
 [o1] 2017 ~ Elloumi, N. - Belhaj, D. - Mseddi, S. - Zouari, M. - Abdallah, F.B. - Woodward, S. - Kallel, M.: Ecological Engineering, Vol. 99, February, 2017, s. 164-171 -- SCOPUS  
 [o1] 2017 ~ Nikolic, N. - Zoric, L. - Cvetkovic, I. - Pajevic, S. - Borišev, M. - Orlovic, S. - Pilipovic, A.: IForest, Vol. 10, No. 3, 2017, s. 635-644 -- SCI ; SCOPUS  
 [o1] 2017 ~ Kaur, H. - Garg, N.: Communications in Soil Science and Plant Analysis, Vol. 48, No. 14, 2017, s. 1684-1700 -- SCI ; SCOPUS  
 [o1] 2017 ~ Rodrigues, L.C.A. - Martins, J.P.R. - de Almeida Júnior, O. - Guilherme, L.R.G. - Pasqual, M. - de Castro, E.M.: Plant Cell, Tissue and Organ Culture, Vol. 130, No. 3, 2017, s. 507-519 -- SCI ; SCOPUS  
 [o1] 2017 ~ Pietrini, F. - Di Baccio, D. - Iori, V. - Veliksar, S. - Lemanova, N. - Juškaite, L. - Maruška, A. - Zacchini, M.: Science of the Total Environment, Vol. 592, August, 2017, s. 412-418 -- SCI ; SCOPUS  
 [o1] 2018 ~ Brandao, M.C.S. - Martins, F.M. - Accioly, A.M.A. - Santos, N.M. - Romao, M.V.V. - Azevedo, A.D.: International Journal of Environmental Science and Technology, Vol. 15, No. 2, 2018, s. 361-372 -- SCI  
 [o1] 2018 ~ Wang, W.N. - Wang, Y. - Hoch, G. - Wang, Z.Q. - Gu, J.C.: Plant and Soil, Vol. 425, No. 1-2, 2018, s. 189-200 -- SCI  
 [o1] 2018 ~ Kaur, H. - Garg, N.: Journal of Plant Growth Regulation, Vol. 37, No. 2, 2018, s. 680-693 -- SCI  
 [o1] 2018 ~ Somavilla, L.M. - Simao, D.G. - Tiecher, T.L. - Hammerschmitt, R.K. - de Oliveira, J.M.S. - Mayer, N.A. - Pavanello, E.P. - Trentin, E. - Belles, S.W. - Brunetto, G.: Scientia Horticulturae, Vol. 237, July, 2018, s. 1-10 -- SCI  
 [o1] 2019 ~ Zhou, J.H. - Cheng, K. - Zheng, J.Y. - Liu, Z.Q. - Shen, W.B. - Fan, H.B. - Jin, Z.N.: Water air and Soil Pollution, Vol. 230, No. 1, 2019, Art. No. 15 -- SCI  
 [o1] 2019 ~ Kumar, A. - Prasad, M.N.V.: Plant Genetic Engineering Approach for the Pb and Zn Remediation: Defense Reactions and Detoxification Mechanisms. In: Transgenic Plant Technology for Remediation of Toxic Metals and Metalloids. London :Academic Press, 2019, S. 359-380 -- BKCI-S  
 [o1] 2020 ~ Zhou, J. - Cheng, K. - Gao, R. - Duan, H. - Pu, H. - Jin, Z.: Photosynthesis and Other Physiological Characteristics of *Cinnamomum camphora* Seedlings under Cadmium Stress. In: Linze Kexue/Scientia Silvae Sinicae, Vol. 56, No. 6, 2020, s. 193-201 -- SCOPUS  
 [o1] 2020 ~ Li, X.S. - Song, L.L.: The role of ABA in the responses of wild-type and abscisic acid mutants of *Arabidopsis thaliana* to excess zinc. In: Acta Physiologiae Plantarum, Vol. 42, No. 5, 2020, Art. No. 74 -- SCOPUS  
 [o1] 2020 ~ Peng, S. - Wu, L. - Seyler, B.C. - Pei, X. - Li, S. - Huang, Y.: The combined effects of Cu and Pb on the sex-specific growth and physiology of the dioecious *Populus yunnanensis*. In: Environmental Research, Vol. 184, 2020, Art. No.109276 -- SCOPUS  
 [o1] 2020 ~ Sidhu, G.P.S. - Bali, A.S. - Singh, H.P. - Batish, D.R. - Kohli, R.K.: Insights into the tolerance and phytoremediation potential of *Coronopus didymus* L. (Sm) grown under zinc stress. In: Chemosphere, Vol. 244, 2020, Art. No.125350 -- SCOPUS  
 [o1] 2020 ~ Stroppa, N. - Onelli, E. - Hejna, M. - Rossi, L. - Gagliardi, A. - Bini, L. - Baldi, A. - Moscatelli, A.: *Typha latifolia* and *Thelypteris palustris* behavior in a pilot system for the refinement of livestock wastewaters: A case of study. In: Chemosphere, Vol. 240, 2020, Art. No. 124915 -- SCOPUS

- [n1] 2020 zz ~ Hong, Z. - Xing, Y. - Yan, G. - Zhang, J. - Wang, Q.: Response of fine root morphology and anatomical structure of *Betula platyphylla* and *Populus davidiana* natural secondary forest to nitrogen deposition in Changbai Mountains. In: Shengtai Xuebao/Acta Ecologica Sinica, Vol. 40, No. 2, 2020, s. 608-620 -- SCOPUS
- [n1] 2021 zz ~ Grunhofer, P. - Guo, Y. - Li, R. - Lin, J. - Schreiber, L.: Hydroponic cultivation conditions allowing the reproducible investigation of poplar root suberization and water transport. In: Plant Methods, Vol. 17, No. 1, 2021, Art.No. 129 -- SCOPUS
- [n1] 2021 zz ~ Kaur, H. - Garg, N.: Zinc toxicity in plants: a review. In: Planta, Vol. 253, No. 6, 2021, Art. No. 129 -- SCOPUS
- [n1] 2021 zz ~ Sameena, P.P. - Puther, J.T.: Heavy Metal Phytoremediation by Bioenergy Plants and Associated Tolerance Mechanisms. In: Soil and Sediment Contamination, Vol. 30, No. 3, 2021, s. 253-274 -- SCOPUS

ADC16 Vaculíková, Miroslava (aut) [UKOPRBBO] (40%) - Vaculík, Marek (aut) [UKOPRBFR] (20%) - Tandy, Susan (aut) (10%) - Luxová, Miroslava (aut) (10%) - Schulín, Rainer (aut) (20%): Alleviation of antimonate (SbV) toxicity in maize by silicon (Si)

Lit.: 46 zázn., 5 obr., 1 tab.

In: Environmental and Experimental Botany. - Vol. 128, August (2016), s. 11-17. - ISSN 0098-8472

*Registrované v:*

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*Indikátor časopisu:*

IF (JCR) 2016=4,369

*Kvartil Q:*

wos-jcr -- Q1 [plant sciences] ; Q1 [environmental sciences] -- 2016

*Ohlasy (11):*

[o1] 2017 ~ Zhang, L. - Yang, Q. - Wang, S. - Li, W. - Jiang, S. - Liu, Y.: Ecotoxicology and Environmental Safety, Vol. 144, October, 2017, s. 572-577 -- SCI ; SCOPUS

[o1] 2017 ~ Muneer, S. - Park, Y.G. - Kim, S. - Jeong, B.R.: Journal of Plant Growth Regulation, Vol. 36, No. 4, 2017, s. 836-845 -- SCI ; SCOPUS

[o1] 2018 ~ Pereira, T.S. - Pereira, T.S. - Souza, C.L.F.D. - Lima, E.J.A. - Batista, B.L. - Lobato, A.K.D.: Physiology and Molecular Biology of Plants, Vol. 24, No. 1, 2018, s. 99-114 -- SCI

[o1] 2019 ~ Zhu, D.D. - Xue, B. - Jiang, Y.S. - Wei, C.D.: Environmental Science and Pollution Research, Vol. 26, No. 6, 2019, s. 5925-5933 -- SCI

[o1] 2019 ~ Natasha (Natasha)[ 1 ] ; Shahid, M. - Khalid, S. - Dumat, C. - Pierart, A. - Niazi, N.K.: Applied Geochemistry, Vol. 106, 2019, s. 45-59 -- SCI

[o1] 2019 ~ Ma, C.L. - He, M.C. - Zhong, Q.Y. - Ouyang, W. - Lin, C.Y. - Liu, X.T.: Science of the Total Environment, Vol. 669, 2019, s. 421-430 -- SCI

[o1] 2019 ~ Lukacova, Z. - Svubova, R. - Janikovicova, S. - Volajova, Z. - Lux, A.: Plant Physiology and Biochemistry, Vol. 139, 2019, s. 179-190 -- SCI

[o1] 2020 ~ Aqaei, P. - Weisany, W. - Diyanat, M. - Razmi, J. - Struik, P.C.: Response of maize (*Zea mays* L.) to potassium nano-silica application under drought stress. In: Journal of Plant Nutrition, Vol. 43, No. 9, 2020, s. 1205-1216 -- SCOPUS

[o1] 2020 ~ Zhu, Y. - Yang, J. - Wang, L. - Lin, Z. - Dai, J. - Wang, R. - Yu, Y. - Liu, H. - Rensing, C. - Feng, R.: Factors influencing the uptake and speciation transformation of antimony in the soil-plant system, and the redistribution and toxicity of antimony in plants. In: Science of the Total Environment, Vol. 738, 2020, Art. No. 140232 -- SCOPUS

[o1] 2020 ~ Kreszies, T. - Kreszies, V. - Ly, F. - Thangamani, P.D. - Shellakkutti, N. - Schreiber, L.: Suberized transport barriers in plant roots: The effect of silicon. In: Journal of Experimental Botany, Vol. 71, No. 21, 2020, s. 6799-6806 -- SCOPUS

[n1] 2021 zz ~ Lux, A. - Kohanova, J. - White, P.J.: The secrets of calcicole species revealed. In: Journal of Experimental Botany, Vol. 72, No. 4, 2021, s. 968-970 -- SCOPUS

ADC17 Vadkertiová, Renáta (aut) (45%) - Molnárová, Jana (aut) (25%) - Lux, Alexander (aut) [UKOPRBFR] (5%) - Vaculík, Marek (aut) [UKOPRBFR] (20%) - Lišková, Desana (aut) (5%): Yeasts associated with an abandoned mining area in Pernek and their tolerance to different chemical elements

Lit.: 64 zázn., 4 tab.

In: Folia Microbiologica (Praha). - Vol. 61, No. 3 (2016), s. 199-207. - ISSN 0015-5632

*Registrované v:*

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SCOPUS SCOPUS

*Indikátor časopisu:*

IF (JCR) 2016=1,521

*Kvartil Q:*

wos-jcr -- Q3 [biotechnology and applied microbiology] ; Q4 [microbiology] -- 2016

*Ohlasy (9):*

[o1] 2016 ~ Russo, G. - Libkind, D. - Giraudo, M.R. - Delgado, O.D.: Journal of Basic Microbiology, Vol. 56, No. 11, 2016, s. 1203-1211 -- SCI

[o1] 2017 ~ Crognale, S. - D'Annibale, A. - Pesciaroli, L. - Stazi, S.R. - Petruccioli, M.: Frontiers in Microbiology, Vol. 8, November, 2017, Art. No. 2202 -- SCI ; SCOPUS

[o1] 2018 ~ Prasongsuk, S. - Lotrakul, P. - Ali, I. - Bankeeree, W. - Punnapayak, H.: Folia Microbiologica, Vol. 63, No. 2, 2018, s. 129-140 -- SCI

[o1] 2018 ~ Frossard, A. - Donhauser, J. - Mestrot, A. - Gygax, S. - Baath, E. - Frey, B.: Soil Biology & Biochemistry, Vol. 120, May, 2018, s. 191-199 -- SCI

[o1] 2018 ~ Kulakovskaya, T. - Ryazanova, L. - Zvonarev, A. - Khokhlova, G. - Ostroumov, V. - Vainshtein, M.: Folia Microbiologica, Vol. 63, No. 4, 2018, s. 507-510 -- SCI

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*Indikátor časopisu:*

IF (JCR) 2017=3,678

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- [n1] 2021 zz ~ Besen, M.R. - Coneglian, C.F. - Cassim, B.M.A.R. - Kachinski, W.D. - Inoue, T.T. - Batista, M.A.: Forms of lime application and use of phosphogypsum in low acid soil in Southern Brazil: Soybean-wheat yield and soil chemical properties. In: Revista Brasileira de Ciencia do Solo, Vol. 45, 2021, Art. No. e0210001 -- SCOPUS
- [n1] 2021 zz ~ Salim, M.A. - Setyaningsih, L. - Wahyudi, I. - Budi, S.W.: Growth of falcataria moluccana and albizia chinensis seedling under aluminum exposure. In: Biodiversitas, Vol. 22, No. 9, 2021, s. 3693-3701 -- SCOPUS
- [n1] 2021 zz ~ Ghosh, U.K. - Islam, M.N. - Siddiqui, M.N. - Khan, M.A.R.: Understanding the roles of osmolytes for acclimatizing plants to changing environment: a review of potential mechanism. In: Plant Signaling and Behavior, Vol. 16, No. 8, 2021, Art. No. 1913306 -- SCOPUS

ADC20 Kohanová, Jana (aut) [UKOPRBFR] (60%) - Martinka, Michal (aut) [UKOPRBFR] (10%) - Vaculík, Marek (aut) [UKOPRBFR] (10%) - White, Philip J. (aut) (5%) - Hauser, Marie-Theres (aut) (5%) - Lux, Alexander (aut) [UKOPRBFR] (10%): Root hair abundance impacts cadmium accumulation in Arabidopsis thaliana shoots

Lit.: 75 zázn.

In: Annals of Botany. - Roč. 122, č. 5 (2018), s. 903-914. - ISSN (print) 0305-7364

Registrované v:

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Indikátor časopisu:

IF (JCR) 2018=3.454

Kvartil Q:

wos-jcr -- Q1 [Plant sciences] -- 2018

Ohlasy (9):

[o1] 2019 ~ Zhang, T.Q. - Xu, Z.G. - Shang, G.D. - Wang, J.W.: Molecular Plant, Vol. 12, No. 5, 2019, s. 648-660 -- SCI

[o1] 2019 ~ Xiang, J.Q. - Ming, J.J. - Yin, H.Q. - Zhu, Y.F. - Li, Y.J. - Long, L. - Ye, Z.Y. - Wang, H.Y. - Wang, X.E. - Zhang, F.: Open Life Sciences, Vol. 14, No. 1, 2019, s. 318-326 -- SCI

[o1] 2019 ~ Rizwan, M. - ElShamy, M.M. - Abdel-Aziz, H.M.M.: Ecological Indicators, Vol. 106, November, 2019, Art. No. 105463 -- SCI

[o1] 2020 ~ Bin, L. - Jin, H. - Li, W. - Jin, L. - Yueyang, L. - Ji, C.: A review on how plant hormones and environment factors are involved in rice root hair development. In: Chinese Journal of Rice Science, Vol. 34, No. 4, 2020, s. 287-299-- SCOPUS

- [o1] 2020 ~ Huang, L. - Jiang, Q. - Wu, J. - An, L. - Zhou, Z. - Wong, C.E. - Wu, M. - Yu, H. - Gan, Y.: Zinc finger protein 5 (ZFP5) associates with ethylene signaling to regulate the phosphate and potassium deficiency-induced root hair development in Arabidopsis. In: *Plant Molecular Biology*, Vol. 102, No. 1-2, 2020, s. 143-158 -- SCOPUS
- [o1] 2020 ~ Corso, M. - Garcia, De La Torre V.S.: Biomolecular approaches to understanding metal tolerance and hyperaccumulation in plants. In: *Metallomics*, Vol. 12, No. 6, 2020, s. 840-859 -- SCOPUS
- [n1] 2021 zz ~ Pirselova, B. - Ondruskova, E.: Effect of cadmium chloride and cadmium nitrate on growth and mineral nutrient content in the root of fava bean (*Vicia faba* L.). In: *Plants*, Vol. 10, No. 5, 2021, Art. No. 1007 -- SCOPUS
- [n1] 2021 zz ~ Wu, D. - Li, L. - Li, C. - Dun, B. - Zhang, J. - Li, T. - Zhou, C. - Tan, D. - Yang, C. - Huang, G. - Zhang, X.: Apoplastic histochemical features of plant root walls that may facilitate ion uptake and retention. In: *Open LifeSciences*, Vol. 16, No. 1, 2021, s. 1347-1356 -- SCOPUS
- [n1] 2021 zz ~ Pirselova, B. - Kubova, V. - Bolecek, P. - Hegedusova, A.: Impact of cadmium toxicity on leaf area and stomatal characteristics in faba bean. In: *Journal of Microbiology, Biotechnology and Food Sciences*, Vol. 11, No. 2, 2021, s.1-4 -- SCOPUS

ADC21 Kováč, Ján (aut) [UKOPRBFR] (60%) - Lux, Alexander (aut) [UKOPRBFR] (20%) - Vaculík, Marek (aut) [UKOPRBFR] (20%): Formation of a subero-lignified apical deposit in root tip of radish (*Raphanus sativus*) as a response to copper stress[elektronický dokument]

Lit.: 55 zázn.

In: *Annals of Botany* [elektronický dokument]. - Roč. 122, č. 5 (2018), s. 823-831 [print]. - ISSN (print) 0305-7364

*Registrované v:*

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*Indikátor časopisu:*

IF (JCR) 2018=3.454

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2018

*Ohlasy (8):*

[o1] 2019 ~ Chaffey, N., Volkmann, D., Baluška, F.: Communicative and Integrative Biology, Vol. 12, No. 1, 2019, s. 14-30 -- SCOPUS

[o1] 2019 ~ Oliveira, D.P. - Nóbrega, G.N. - Ruiz, F. - Perlatti, F. - Soares, A.A. - Otero, X.L. - Ferreira, T.O.: Environmental Geochemistry and Health, Vol. 41, No. 2, 2019, s. 603-615 -- SCOPUS

[o1] 2019 ~ Yang, C.D. - Yang, X.L. - Zhang, X. - Zhou, C.Y. - Zhang, F. - Wang, X. - Wang, Q.F.: Flora: Morphology, Distribution, Functional Ecology of Plants, Vol. 253, April, 2019, s. 27-34 -- SCOPUS

[o1] 2020 ~ Orrego, F. - Ortiz-Calderón, C. - Lutts, S. - Ginocchio, R.: Environmental and Experimental Botany, Vol. 169, January, 2020, s. 103919 -- SCI ; SCOPUS

[o1] 2020 ~ Wang, M. - Yuan, M. - Zhu, P. - Ling, L. - He, Y. - Fu, X. - Peng, L.: Physiological response and tolerance to copper toxicity of four citrus rootstock seedlings. In: *Acta Horticulturae Sinica*, Vol. 47, No. 10, 2020, s. 1969-1981-- SCOPUS

[o1] 2020 ~ Hu, Z. - Fu, Q. - Zheng, J. - Zhang, A. - Wang, H.: Transcriptomic and metabolomic analyses reveal that melatonin promotes melon root development under copper stress by inhibiting jasmonic acid biosynthesis. In: *HorticultureResearch*, Vol. 7, No. 1, 2020, Art. No. 79 -- SCOPUS

[n1] 2021 zz ~ Singh, S. - Husain, T. - Kushwaha, B.K. - Suhel, M. - Fatima, A. - Mishra, V. - Singh, S.K. - Bhatt, J.A. - Rai, M. - Prasad, S.M. - Dubey, N.K. - Chauhan, D.K. - Tripathi, D.K. - Fotopoulos, V. - Singh, V.P.: Regulation of ascorbate-glutathione cycle by exogenous nitric oxide and hydrogen peroxide in soybean roots under arsenate stress. In: *Journal of Hazardous Materials*, Vol. 409, 2021, Art. No. 123686 -- SCOPUS

[n1] 2021 zz ~ Jia, H. - Wang, X. - Wei, T. - Wang, M. - Liu, X. - Hua, L. - Ren, X. - Guo, J. - Li, J.: Exogenous salicylic acid regulates cell wall polysaccharides synthesis and pectin methylation to reduce Cd accumulation of tomato. In: *Ecotoxicology and Environmental Safety*, Vol. 207, 2021, Art. No. 111550 -- SCOPUS

ADC22 Bokor, Boris (aut) [UKOVP] (15%) - Soukup, Milan (aut) [UKOPRBFR] (5%) - Vaculík, Marek (aut) [UKOPRBFR] (14%) - Vďačný, Peter (aut) [UKOPRBZO] (5%) - Weidinger, Marieluise (aut) (5%) -

Lichtscheidl, Irene (aut) (5%) - Vávrová, Silvia (aut) [UKOPRBMB] (5%) - Šoltys, Katarína (aut) [UKOVP] (5%) - Sonah, Humira (aut) (5%) - Deshmukh, Rupesh (aut) (5%) - Bélanger, Richard R. (aut) (5%) - White, Philip J. (aut) (10%) - El-Serehy, Hamed A. (aut) (1%) - Lux, Alexander (aut) [UKOPRBFR] (15%): Silicon Uptake and Localisation in Date Palm (*Phoenix dactylifera*) - A Unique Association With Sclerenchyma [elektronický dokument]

Lit.: 78 zázn.

In: *Frontiers in Plant Science* [elektronický dokument]. - Roč. 10, č. August (2019), s. [1-17], Art. No. 988 [online]. - ISSN (online) 1664-462X

*Registrované v:*

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*Indikátor časopisu:*

IF (JCR) 2019=4.402

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2019

*Ohlasy (12):*

[o1] 2020 ~ George, N. - Antony, A. - Ramachandran, T. - Hamed, F. - Kamal-Eldin, A.: *Frontiers in Plant Science*, Vol. 11, 2020, Art. No. 977 -- SCI ; SCOPUS

[o1] 2020 ~ Hodson, M.J. - Evans, D.E.: *Journal of Experimental Botany*, Vol. 71, No. 21, 2020, s. 6719-6729 -- SCOPUS ; SCI

[o1] 2020 ~ Zancajo, V.M.R. - Lindtner, T. - Eisele, M. - Huber, A.J. - Elbaum, R. - Kneipp, J.: *Analytical Chemistry*, Vol. 92, No. 20, 2020, s. 13694-13701 -- SCOPUS ; SCI

[o1] 2021 ~ Mitani-Ueno, N. - Ma, J.F.: *Soil Science and Plant Nutrition*, Vol. 67, No. 1, 2021, s. 10-17 -- SCOPUS ; SCI

[n1] 2021 zz ~ Kirschner, G.K. - Xiao, T.T. - Blilou, I.: Rooting in the desert: A developmental overview on desert plants. In: *Genes*, Vol. 12, No. 5, 2021, Art. No. 709 -- SCOPUS

[n1] 2021 zz ~ Pavlovic, J. - Kostic, L. - Bosnic, P. - Kirkby, E.A. - Nikolic, M.: Interactions of Silicon With Essential and Beneficial Elements in Plants. In: *Frontiers in Plant Science*, Vol. 12, 2021, Art. No. 697592 -- SCOPUS

[n1] 2021 zz ~ Sterken, P.: The quest for a unified theory on biomechanical palm risk assessment through theoretical analysis and observation. In: *Scientific Reports*, Vol. 11, No. 1, 2021, Art. No. 22134 -- SCOPUS

[n1] 2022 zz ~ An, X. - Xie, B.: Phytoliths from Woody Plants: A Review. In: *Diversity*, Vol. 14, No. 5, 2022, art. no. 339 -- SCOPUS

[n1] 2022 zz ~ Tripathi, P. - Tayade, R. - Mun, B.-G. - Yun, B.-W. - Kim, Y.: Silicon Application Differentially Modulates Root Morphology and Expression of PIN and YUCCA Family Genes in Soybean (*Glycine max* L.). In: *Frontiers in Plant Science*, Vol. 13, 2022, art. no. 842832 -- SCOPUS

[n1] 2022 zz ~ Davamani, V. - Sangeetha Piriya, R. - Rakesh, S.S. - Parameswari, E. - Paul Sebastian, S. - Kalaiselvi, P. - Maheswari, M. - Santhi, R.: Phytolith-Occcluded Carbon Sequestration Potential of Oil Palm Plantation in Tamil Nadu. In: *ACS Omega*, Vol. 7, No. 3, 2022, s. 2809-2820 -- SCOPUS

[n1] 2022 zz ~ Pooja - Vikram - Sharma, J. - Verma, S. - Sharma, A.: Importance of silicon in combating a variety of stresses in plants: A review. In: *Journal of Applied and Natural Science*, Vol. 14, No. 2, 2022, s. 607-630 -- SCOPUS

[n1] 2022 zz ~ Mukarram, M. - Petrik, P. - Mushtaq, Z. - Khan, M.M.A - Gulfishan, M. - Lux, A.: Silicon nanoparticles in higher plants: Uptake, action, stress tolerance, and crosstalk with phytohormones, antioxidants, and other signalling molecules. In: *Environmental Pollution*, Vol. 310, 2022, art.no. 119855 -- SCOPUS

ADC23 Bosnić, Dragana (aut) (40%) - Nikolič, Dragana (aut) (10%) - Timotijević, Gordana (aut) (10%) - Pavlovič, Jelena (aut) (10%) - Vaculík, Marek (aut) [UKOPRBFR] (10%) - Samardžić, Jelena (aut) (10%) - Nikolič, Miroslav (aut) (10%): Silicon alleviates copper (Cu) toxicity in cucumber by increased Cu-binding capacity  
Lit.: 62 zázn.

In: *Plant and Soil*. - č. 441 (1-2) (2019), s. 629-641. - ISSN (print) 0032-079X

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*Indikátor časopisu:*

IF (JCR) 2019=3.299

*Kvartil Q:*

wos-jcr -- Q2 [Soil science] -- 2019

wos-jcr -- Q1 [Agronomy] -- 2019

wos-jcr -- Q1 [Plant sciences] -- 2019

*Ohlasy (10):*

[o1] 2020 ~ Mandlik, R. - Thakral, V. - Raturi, G. - Shinde, S. - Nikolio, M. - Tripathi, D.K. - Sonah, H. - Deshmukh, R.: Significance of silicon uptake, transport, and deposition in plants. In: Journal of Experimental Botany, Vol. 71, No.21, 2020, s. 6703-6718 -- SCOPUS

[o1] 2020 ~ Huang, S. - Ma, J.F.: Silicon suppresses zinc uptake through down-regulating zinc transporter gene in rice. In: Physiologia Plantarum, Vol. 170, No. 4, 2020, s. 580-591 -- SCOPUS

[o1] 2020 ~ Wang, B. - Chu, C. - Wei, H. - Zhang, L. - Ahmad, Z. - Wu, S. - Xie, B.: Ameliorative effects of silicon fertilizer on soil bacterial community and pakchoi (*Brassica chinensis* L.) grown on soil contaminated with multiple heavymetals. In: Environmental Pollution, Vol. 267, 2020, Art. No. 115411 -- SCOPUS

[o1] 2020 ~ Xin, X. - Zhao, F. - Rho, J.Y. - Goodrich, S.L. - Sumerlin, B.S. - He, Z.: Use of polymeric nanoparticles to improve seed germination and plant growth under copper stress. In: Science of the Total Environment, Vol. 745, 2020, Art.No. 141055 -- SCOPUS

[o1] 2020 ~ Schmitt, O.J. - Brunetto, G. - Chassot, T. - Tiecher, T.L. - Marchezan, C. - Tarouco, C.P. - De Conti, L. - Lourenzi, C.R. - Nicoloso, F.T. - Kreutz, M.A. - Andriolo, J.L.: Impact of Cu concentrations in nutrient solution on growth and physiological and biochemical parameters of beet and cabbage and human health risk assessment. In: Scientia Horticulturae, Vol. 272, 2020, Art. No. 109558 -- SCOPUS

[n1] 2021 zz ~ Lozano-Gonzalez, J.M. - Valverde, C. - Hernandez, C.D. - Martin-Esquinas, A. - Hernandez-Apaolaza, L.: Beneficial effect of root or foliar silicon applied to cucumber plants under different zinc nutritional statuses. In: Plants, Vol. 10, No. 12, 2021, Art. No. 2602 -- SCOPUS

[n1] 2021 zz ~ Cristofano, F. - El-Nakhel, C. - Roupheal, Y.: Biostimulant substances for sustainable agriculture: Origin, operating mechanisms and effects on cucurbits, leafy greens, and nightshade vegetables species. In: Biomolecules, Vol.11, No. 8, 2021, Art. No. 1103 -- SCOPUS

[n1] 2021 zz ~ Ranjan, A. - Sinha, R. - Bala, M. - Pareek, A. - Singla-Pareek, S.L. - Singh, A.K.: Silicon-mediated abiotic and biotic stress mitigation in plants: Underlying mechanisms and potential for stress resilient agriculture. In: Plant Physiology and Biochemistry, Vol. 163, 2021, s. 15-25 -- SCOPUS

[n1] 2021 zz ~ Gao, D. - Ye, W. - Ma, Y. - Lu, H.: Impact of silicon application on zinc and copper absorption of rice seedlings. In: Journal of South China Agricultural University, Vol. 42, No. 3, 2021, s. 26-32 -- SCOPUS

[n1] 2021 zz ~ Mostofa, M.G. - Rahman, M.M. - Ansary, M.M.U. - Keya, S.S. - Abdelrahman, M. - Miah, M.G. - Phan, Tran L.-S.: Silicon in mitigation of abiotic stress-induced oxidative damage in plants. In: Critical Reviews in Biotechnology, Vol. 41, No. 6, 2021, s. 918-934 -- SCOPUS

ADC24 Kováč, Ján (aut) [UKOPRBFR] (14.29%) - Lux, Alexander (aut) [UKOPRBFR] (14.285%) - Soukup, Milan (aut) [UKOPRBFR] (14.285%) - Weidinger, Marieluise (aut) (14.285%) - Gruber, Daniela (aut) (14.285%) - Lichtscheidl, Irene (aut) (14.285%) - Vaculík, Marek (aut) [UKOPRBFR] (14.285%): A new insight on structural and some functional aspects of peri-endodermal thickenings, a specific layer in *Noccaea caerulescens* roots

Lit.: 54 zázn.

In: Annals of Botany. - Roč. 126, č. 3 (2020), s. 423-434. - ISSN (print) 0305-7364

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*Indikátor časopisu:*

IF (JCR) 2020=4,357

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2020

*Ohlasy (2):*

[n1] 2021 zz ~ Wu, D. - Li, L. - Li, C. - Dun, B. - Zhang, J. - Li, T. - Zhou, C. - Tan, D. - Yang, C. - Huang, G. - Zhang, X.: Apoplastic histochemical features of plant root walls that may facilitate ion uptake and retention. In: *Open LifeSciences*, Vol. 16, No. 1, 2021, s. 1347-1356 -- SCOPUS

[n1] 2021 zz ~ Guo, X. - Luo, J. - Du, Y. - Li, J. - Liu, Y. - Liang, Y. - Li, T.: Coordination between root cell wall thickening and pectin modification is involved in cadmium accumulation in *Sedum alfredii*. In: *Environmental Pollution*, Vol.268, 2021, Art. No. 115665 -- SCOPUS

ADC25 Lux, Alexander (aut) [UKOPRBFR] (12.5%) - Lukačová, Zuzana (aut) [UKOPRBFR] (12.5%) - Vaculík, Marek (aut) [UKOPRBFR] (12.5%) - Švubová, Renáta (aut) [UKOPRBFR] (12.5%) - Kohanová, Jana (aut) [UKOPRBFR] (12.5%) - Soukup, Milan (aut) (12.5%) - Martinka, Michal (aut) [UKOPRBFR] (12.5%) - Bokor, Boris (aut) [UKOVP] (12.5%): Silicification of Root Tissues [elektronický dokument]

Lit.: 176 záz.

In: *Plants-Basel* [elektronický dokument]. - Roč. 9, č. 1 (2020), s. [1-20], Article Number: 111 [online]. - ISSN (online) 2223-7747

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*Indikátor časopisu:*

IF (JCR) 2020=3.935

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2020

*Ohlasy (14):*

[o1] 2020 ~ Hughes, H.J. - Hung, D.T. - Sauer, D.: Nutrient Cycling in Agroecosystems, Vol. 118, No. 1, September, 2020, s. 75-89 -- SCI

[o1] 2020 ~ Piperno, D.R. - McMichael, C.: Quaternary International, Vol. 565, November, 2020, s. 54-74 -- SCOPUS ; SCI

[o1] 2021 ~ Dhiman, P. - Rajora, N. - Bhardwaj, S. - Sudhakaran, S.S. - Kumar, A. - Raturi, G. - Chakraborty, K. - Gupta, O.P. - Devanna, B.N. - Tripathi, D.K. - Deshmukh, R.: Plant Physiology and Biochemistry, Vol. 162, May, 2021, s. 110-123-- SCOPUS

[n1] 2021 zz ~ Wang, M. - Wang, R. - Mur, L.A.J. - Ruan, J. - Shen, Q. - Guo, S.: Functions of silicon in plant drought stress responses. In: *Horticulture Research*, Vol. 8, No. 1, 2021, art. no. 254 -- SCOPUS

[n1] 2021 zz ~ Putra, R. - Vandegeer, R.K. - Karan, S. - Powell, J.R. - Hartley, S.E. - Johnson, S.N.: Silicon enrichment alters functional traits in legumes depending on plant genotype and symbiosis with nitrogen-fixing bacteria. In: *Functional Ecology*, Vol. 35, No. 12, 2021, s. 2856-2869 -- SCOPUS

[n1] 2021 zz ~ Wang, D. - Hou, L. - Zhang, L. - Liu, P.: The mechanisms of silicon on maintaining water balance under water deficit stress. In: *Physiologia Plantarum*, Vol. 173, No. 3, 2021, s. 1253-1262 -- SCOPUS

[n1] 2021 zz ~ Saha, G. - Mostofa, M.G. - Rahman, M.M. - Tran, L.-S.P.: Silicon-mediated heat tolerance in higher plants: A mechanistic outlook. In: *Plant Physiology and Biochemistry*, Vol. 2021, No. 166, 2021, s. 314-347 -- SCOPUS

[n1] 2021 zz ~ Janeeshma, E. - Puthur, J.T. - Ahmad, P.: Silicon distribution in leaves and roots of rice and maize in response to cadmium and zinc toxicity and the associated histological variations. In: *Physiologia Plantarum*, Vol. 173, No.1, 2021, 460-471 -- SCOPUS

[n1] 2021 zz ~ Ahammed, G.J. - Yang, Y.: Mechanisms of silicon-induced fungal disease resistance in plants. In: *Plant Physiology and Biochemistry*, Vol. 2021, No. 165, 2021, s. 200-206 -- SCOPUS

[n1] 2021 zz ~ Liu, W.-S. - Laird, J.S. - Ryan, C.G. - Tang, Y.-T. - Qiu, R.-L. - Echevarria, G. - Morel, J.-L. - Van Der Ent, A.: Rare earth elements, aluminium and silicon distribution in the fern *Dicranopteris linearis* revealed by pIXE Maiaanalysis. In: *Annals of Botany*, Vol. 128, No. 1, 2021, s. 17-30 -- SCOPUS

[n1] 2021 zz ~ Jiang, N.-H. - Zhang, S.-H.: Effects of combined application of potassium silicate and salicylic acid on the defense response of hydroponically grown tomato plants to *Ralstonia solanacearum* infection. In: *Sustainability*, Vol.13, No. 7, 2021, Art. No. 3750 -- SCOPUS

[n1] 2021 zz ~ Hadi, S.M.H.S.A. - Zakaria, L. - Sidique, S.N.M. - Mahyudin, M.M. - Nor, N.M.I.M.: The potential of soluble silicon for managing white root disease in rubber (*Hevea brasiliensis*). In: *Australian Journal of Crop Science*, Vol. 15, No. 10, 2021, s. 1346-1354 -- SCOPUS

[n1] 2022 zz ~ Xiao, Z. - Ye, M. - Gao, Z. - Jiang, Y. - Zhang, X. - Nikolic, N. - Liang, Y.: Silicon Reduces Aluminum-Induced Suberization by Inhibiting the Uptake and Transport of Aluminum in Rice Roots and Consequently Promotes Root Growth. In: Plant and Cell Physiology, Vol. 63, No. 3, 2022, s. 340-352 -- SCOPUS

[n1] 2022 zz ~ Badgal, P. - Chowdhary, P. - Bhat, M.A. - Soodan, A.S.: Phytolith profile of *Acrachne racemosa* (B. Heyne ex Roem. & Schult.) Ohwi (Cynodonteae, Chloridoideae, Poaceae). In: PLoS ONE, Vol. 17, February, 2022, art. no. e0263721 --SCOPUS

ADC26 Tripathi, Durgesh Kumar (aut) (30%) - Singh, Vijay Pratap (aut) (30%) - Lux, Alexander (aut) [UKOPRBFR] (10%) - Vaculík, Marek (aut) [UKOPRBFR] (30%): Silicon in plant biology: From past to present, and future challenges

Lit.: 34 záz.

In: Journal of Experimental Botany. - Roč. 71, č. 21 SI (2020), s. 6699-6702. - ISSN (print) 0022-0957

*Registrované v:*

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*Indikátor časopisu:*

IF (JCR) 2020=6,992

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2020

*Ohlasy (6):*

[n1] 2021 zz ~ Naz, R. - Batool, S. - Shahid, M. - Keyani, R. - Yasmin, H. - Nosheen, A. - Hassan, M.N. - Mumtaz, S. - Siddiqui, M.H.: Exogenous silicon and hydrogen sulfide alleviates the simultaneously occurring drought stress and leaf rustinfection in wheat. In: Plant Physiology and Biochemistry, Vol. 166, 2021, s. 558-571 -- SCOPUS

[n1] 2021 zz ~ Ahammed, G.J. - Yang, Y.: Mechanisms of silicon-induced fungal disease resistance in plants. In: Plant Physiology and Biochemistry, Vol. 165, 2021, s. 200-206 -- SCOPUS

[n1] 2021 zz ~ Farajzadeh Memari-Tabrizi, E. - Yousefpour-Dokhanieh, A. - Babashpour-Asl, M.: Foliar-applied silicon nanoparticles mitigate cadmium stress through physio-chemical changes to improve growth, antioxidant capacity, and essentialoil profile of summer savory (*Satureja hortensis* L.). In: Plant Physiology and Biochemistry, Vol. 165, 2021, s. 71-79 -- SCOPUS

[n1] 2021 zz ~ Lesharadevi, K. - Parthasarathi, T. - Muneer, S.: Silicon biology in crops under abiotic stress: A paradigm shift and cross-talk between genomics and proteomics. In: Journal of Biotechnology, Vol. 333, 2021, s. 21-38 -- SCOPUS

[n1] 2021 zz ~ Khan, M.I.R. - Ashfaq, F. - Chhillar, H. - Irfan, M. - Khan, N.A.: The intricacy of silicon, plant growth regulators and other signaling molecules for abiotic stress tolerance: An entrancing crosstalk between stressalleviators. In: Plant Physiology and Biochemistry, Vol. 162, 2021, s. 36-47 -- SCOPUS

[n1] 2021 zz ~ Romera, F.J. - Lan, P. - Rodriguez-Celma, J. - Perez-Vicente, R.: Editorial: Nutrient Interactions in Plants. In: Frontiers in Plant Science, Vol. 12, 2021, Art. No. 782505 -- SCOPUS

ADC27 Vaculík, Marek (aut) [UKOPRBFR] (29%) - Lukačová, Zuzana (aut) [UKOPRBFR] (19%) - Bokor, Boris (aut) [UKOVP] (19%) - Martinka, Michal (aut) [UKOPRBFR] (9%) - Tripathi, Durgesh Kumar (aut) (5%) - Lux, Alexander (aut) [UKOPRBFR] (19%): Alleviation mechanisms of metal(loid) stress in plants by silicon : a review

Lit.: 174 záz.

In: Journal of Experimental Botany. - Roč. 71, č. 21 SI (2020), s. 6744-6757. - ISSN (print) 0022-0957

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SCIE Science Citation Index Expanded

*Indikátor časopisu:*

IF (JCR) 2020=6,992

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2020

*Ohlasy (33):*

- [o1] 2020 ~ Gomez-Merino, F.C. - Trejo-Tellez, L.I. - Garcia-Jimenez, A. - Escobar-Sepulveda, H.F. - Ramirez-Olvera, S.M.: PeerJ, Vol. 8, November, 2020, Art. No. e10053 -- SCOPUS
- [o1] 2020 ~ Vega, I. - Rumpel, C. - Ruiz, A. - de la Luz Mora, M. - Calderini, D.F. - Cartes, P.: Agronomy, Vol. 10, No. 8, 2020, Art. No. 1138 -- SCOPUS ; SCI
- [o1] 2021 ~ Khan, M.I.R. - Ashfaque, F. - Chhillar, H. - Irfan, M. - Khan, N.A.: Plant Physiology and Biochemistry, Vol. 162, May, 2021, s. 36-47 -- SCOPUS
- [o1] 2021 ~ Zulfiquar, F. - Ashraf, M.: Plant Physiology and Biochemistry, Vol. 160, March, 2021, s. 257-268 - - SCOPUS
- [o1] 2021 ~ Acevedo, F.E. - Peiffer, M. - Ray, S. - Tan, C.-W. - Felton, G.W.: Frontiers in Plant Science, Vol. 12, February, 2021, Art. No. 631824 -- SCOPUS ; SCI
- [o1] 2021 ~ Mundada, P.S. - Barvkar, V.T. - Umdale, S.D. - Anil, Kumar S. - Nikam, T.D. - Ahire, M.L.: Journal of Hazardous Materials, Vol. 403, February, 2021, Art. No. 124078 -- SCOPUS ; SCI
- [o1] 2021 ~ Arif, M.S. - Yasmeen, T. - Abbas, Z. - Ali, S. - Rizwan, M. - Aljarba, N.H. - Alkahtani, S. - Abdel-Daim, M.M.: Frontiers in Plant Science, Vol. 11, January, 2021, Art. No. 545453 -- SCOPUS ; SCI
- [n1] 2021 zz ~ Gautam, A. - Pandey, A.K.: Aquaporins Responses under Challenging Environmental Conditions and Abiotic Stress Tolerance in Plants. In: Botanical Review, Vol. 87, No. 4, 2021, s. 467-495 -- SCOPUS
- [n1] 2021 zz ~ Wang, D. - Hou, L. - Zhang, L. - Liu, P.: The mechanisms of silicon on maintaining water balance under water deficit stress. In: Physiologia Plantarum, Vol. 173, No. 3, 2021, s. 1253-1262 -- SCOPUS
- [n1] 2021 zz ~ Etienne, P. - Trouverie, J. - Haddad, C. - Arkoun, M. - Yvin, J.-C. - Caius, J. - Brunaud, V. - Laine, P.: Root Silicon Treatment Modulates the Shoot Transcriptome in Brassica napus L. and in Particular Upregulates Genes Related to Ribosomes and Photosynthesis. In: Silicon, Vol. 13, No. 11, 2021, s. 4047-4055 - - SCOPUS
- [n1] 2021 zz ~ Zhou, J. - Gao, M. - Cui, H. - Li, D. - Xia, R. - Wang, T. - Zhou, J.: Influence of Silicon and Selenium and Contribution of the Node to Cadmium Allocation and Toxicity in Rice. In: ACS Agricultural Science and Technology, Vol.1, No. 5, 2021, s. 550-557 -- SCOPUS
- [n1] 2021 zz ~ Wu, J. - Li, R. - Lu, Y. - Bai, Z.: Sustainable management of cadmium-contaminated soils as affected by exogenous application of nutrients: A review. In: Journal of Environmental Management, Vol. 2021, No. 295, 2021, art. no.113081 -- SCOPUS
- [n1] 2021 zz ~ Das, S. - Kim, G.W. - Lee, J.G. - Bhuiyan, M.S.I. - Kim, P.J.: Silicate fertilization improves microbial functional potentials for stress tolerance in arsenic-enriched rice cropping systems. In: Journal of Hazardous Materials, Vol. 2021, No. 417, 2021, art. no. 125953 -- SCOPUS
- [n1] 2021 zz ~ Yang, S. - Ulhassan, Z. - Shah, A.M. - Khan, A.R. - Azhar, W. - Hamid, Y. - Hussain, S. - Sheteiwy, M.S. - Salam, A. - Zhou, W.: Salicylic acid underpins silicon in ameliorating chromium toxicity in rice by modulating antioxidant defense, ion homeostasis and cellular ultrastructure. In: Plant Physiology and Biochemistry, Vol. 2021, No. 166, 2021, s. 1001-1013 -- SCOPUS
- [n1] 2021 zz ~ Chandra, J. - Keshavkant, S.: Mechanisms underlying the phytotoxicity and genotoxicity of aluminum and their alleviation strategies: A review. In: Chemosphere, Vol. 2021, No. 278, 2021, art. no. 130384 -- SCOPUS
- [n1] 2021 zz ~ Ranjan, A. - Sinha, R. - Bala, M. - Pareek, A. - Singla-Pareek, S.L. - Singh, A.K.: Silicon-mediated abiotic and biotic stress mitigation in plants: Underlying mechanisms and potential for stress resilient agriculture. In: Plant Physiology and Biochemistry, Vol. 2021, No. 163, 2021, s. 15-25 -- SCOPUS
- [n1] 2021 zz ~ Arnao, M.B. - Ruiz, J.H.: Melatonin Against Environmental Plant Stressors: A Review. In: Current Protein and Peptide Science, Vol. 22, No. 5, 2021, s. 413-429 -- SCOPUS
- [n1] 2021 zz ~ Mundada, P.S. - Ahire, M.L. - Umdale, S.D. - Barmukh, R.B. - Nikam, T.D. - Pable, A.A. - Deshmukh, R.K. - Barvkar, V.T.: Characterization of influx and efflux silicon transporters and understanding their role in the osmotic stress tolerance in finger millet (*Eleusine coracana* (L.) Gaertn.). In: Plant Physiology and Biochemistry, Vol. 2021, No. 162, 2021, s. 677-689 -- SCOPUS
- [n1] 2021 zz ~ Ma, C. - Hao, Y. - Zhao, J. - Zuverza-Mena, N. - Meselhy, A.G. - Dhankher, O.P. - Rui, Y. - White, J.C. - Xing, B.: Graphitic carbon nitride (C<sub>3</sub>N<sub>4</sub>) reduces cadmium and arsenic phytotoxicity and accumulation in rice (*oryza sativa* L.). In: Nanomaterials, Vol. 11, No. 4, 2021, art. no. 839 -- SCOPUS
- [n1] 2022 zz ~ Bijanzadeh, E. - Barati, V. - Egan, T.P.: Foliar application of sodium silicate mitigates drought stressed leaf structure in corn (*Zea mays* L.). In: South African Journal of Botany, Vol. 2022, No. 147, 2022, s. 8-17 -- SCOPUS

- [n1] 2022 zz ~ Bueno, A.M. - Flores, R.A. - de Brito Ferreira, E.P. - de Andrade, A.F. - de Lima, F.R.S. - de Souza Jr., J.P. - de Oliveira Abdala, K. - Mesquita, M. - de Mello Prado, R.: Effects of Foliar Silicon Application, Seed Inoculation and Splitting of N Fertilization on Yield, Physiological Quality, and Economic Viability of the Common Bean. In: *Silicon*, Vol. 14, No. 8, 2022, s. 4169-4181
- [n1] 2022 zz ~ D'agostini, F. - Vadez, V. - Kholova, J. - Ruiz-Perez, J. - Madella, M. - Lancelotti, C.: Understanding the Relationship between Water Availability and Biosilica Accumulation in Selected C4 Crop Leaves: An Experimental Approach. In: *Plants*, Vol. 11, No. 8, 2022, art. no. 1019 -- SCOPUS
- [n1] 2022 zz ~ Mir, R.A. - Bhat, B.A. - Yousuf, H. - Islam, S.T. - Raza, A. - Rizvi, M.A. - Charagh, S. - Albaqami, M. - Sofi, P.A. - Zargar, S.M.: Multidimensional Role of Silicon to Activate Resilient Plant Growth and to Mitigate Abiotic Stress. In: *Frontiers in Plant Science*, Vol. 2022, No. 13, 2022, art. no. 819658 -- SCOPUS
- [n1] 2022 zz ~ Das, S. - Biswas, A.K.: Comparative study of silicon and selenium to modulate chloroplast pigments levels, Hill activity, photosynthetic parameters and carbohydrate metabolism under arsenic stress in rice seedlings. In: *Environmental Science and Pollution Research*, Vol. 29, No. 13, 2022, s. 19508-19529 -- SCOPUS
- [n1] 2022 zz ~ Ayed, S. - Othmani, A. - Bouhaouel, I. - Rasaa, N. - Othmani, S. - Amara, H.S.: Effect of Silicon (Si) Seed Priming on Germination and Effectiveness of its Foliar Supplies on Durum Wheat (*Triticum turgidum* L. ssp. durum) Genotypes under Semi-Arid Environment. In: *Silicon*, Vol. 14, No. 4, 2022, s. 1731-1741 -- SCOPUS
- [n1] 2022 zz ~ Schroder, P. - Mench, M. - Povilaitis, V. - Rineau, F. - Rutkowska, B. - Schloter, M. - Szulc, W. - Zydelis, R. - Loit, E.: Relaunch cropping on marginal soils by incorporating amendments and beneficial trace elements in an interdisciplinary approach. In: *Science of the Total Environment*, Vol. 2022, No. 803, 2022, art. no. 149844 -- SCOPUS
- [n1] 2022 zz ~ Čermelj, A.M. - Golob, A. - Vogel-Mikuš, K. - Germ, M.: Silicon mitigates negative impacts of drought and uv-b radiation in plants. In: *Plants*, Vol. 11, No. 1, 2022, art. no. 91 -- SCOPUS
- [n1] 2022 zz ~ Kumari, A. - Kumari, P. - Rajput, V.D. - Sushkova, S.N. - Minkina, T.: Metal(loid) nanosorbents in restoration of polluted soils: geochemical, ecotoxicological, and remediation perspectives. In: *Environmental Geochemistry and Health*, Vol. 44, No. 1, 2022, s. 235-246 -- SCOPUS
- [n1] 2022 zz ~ Cai, Y. - Pan, B. - Liu, B. - Cai, K. - Tian, J. - Wang, W.: The Cd sequestration effects of rice roots affected by different Si management in Cd-contaminated paddy soil. In: *Science of Total Environment*, Vol. 849, 2022, art.no. 157718 -- SCOPUS ; SCI
- [n1] 2022 zz ~ Sattar, A. - Sher, A. - Abourehab, M.A.S. - Ijaz, M. - Nawaz, M. - Ul-Allah, S. - Abbas, T. - Shah, A.N. - Imam, M. - Abdelsalam, N.R. - Hasan, M E. - Abbas, A. - Javaid, M.M.: Application of silicon and biochar alleviates the adversities of arsenic stress in maize by triggering the morpho-physiological and antioxidant defense mechanisms. In: *Frontiers in Environmental Science*, Vol. 10, 2022, art. no. 979049 -- SCOPUS ; SCI
- [n1] 2022 zz ~ Rachappanavar, V. - Padiyal, A. - Sharma, J.K. - Gupta, S.K.: Plant hormone-mediated stress regulation responses in fruit crops: a review. In: *Scientia Horticulturae*, Vol. 304, 2022, art. no. 111302 -- SCOPUS ; SCI
- [n1] 2022 zz ~ Zhang, P. - Wei, X. - Zhang, Y. - Zhan, Q. - Bocharnikova, E. - Matichenkov, V.: Silicon-Calcium Synergetic Alleviation of Cadmium Toxicity in the Paddy Soil-Rice System: from Plot Experiment to Field Demonstration. In: *Water Air and Soil Pollution*, Vol. 233, No. 9, 2022, art. no. 357 -- SCOPUS ; SCI
- [n1] 2022 zz ~ Li, D. - Liu, H. - Gao, M. - Zhou, J. - Zhou, J.: Effects of soil amendments, foliar sprayings of silicon and selenium and their combinations on the reduction of cadmium accumulation in rice. In: *Pedosphere*, Vol. 32, No. 4, 2022, s. 649-659 -- SCOPUS; SCI

ADC28 Azam, Salimeh Khademi (aut) (25%) - Karimi, Naser (aut) (25%) - Sourì, Zahra (aut) (25%) - Vaculík, Marek (aut) [UKOPRBFR] (25%): Multiple effects of silicon on alleviation of arsenic and cadmium toxicity in hyperaccumulator *Isatis cappadocica* Desv.  
Lit.: 98 zázn.  
In: *Plant Physiology and Biochemistry*. - č. 168 (2021), s. 177-187. - ISSN (print) 0981-9428  
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*Indikátor časopisu:*

IF (JCR) 2021=5.437

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2021

ADC29 Bokor, Boris (aut) [UKOVP] (25%) - Santos, Carla S. (aut) (9%) - Kostoláni, Dominik (aut) [UKOPRBFR] (15%) - Machado, Joana (aut) (9%) - da Silva, Marta Nunes (aut) (9%) - Carvalho, Susana M.P. (aut) (9%) - Vaculík, Marek (aut) [UKOPRBFR](15%) - Vasconcelos, Marta W. (aut) (9%): Mitigation of climate change and environmental hazards in plants : Potential role of the beneficial metalloid silicon

Lit.: 265 zázn.

In: Journal of Hazardous Materials. - č. 416 (2021), s. [1-17], art. no. 126193. - ISSN (print) 0304-3894

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*Indikátor časopisu:*

IF (JCR) 2021=14.224

*Kvartil Q:*

wos-jcr -- Q1 [Environmental sciences] -- 2021

wos-jcr -- Q1 [Engineering, environmental] -- 2021

*Ohlasy (1):*

[n1] 2022 zz ~ Riaz M. - Kamran M. - Rizwan M. - Ali S. - Wang X.: Foliar application of silica sol alleviates boron toxicity in rice (*Oryza sativa*) seedlings. In: Journal of Hazardous Materials, Vol. 423, No. 127175, 2022, s. 1-13 -- SCI ;SCOPUS

ADC30 Chauhan, Devendra Kumar (aut) (10%) - Yadav, Vaishali (aut) (10%) - Vaculík, Marek (aut) [UKOPRBFR] (10%) - Gassmann, Walter (aut) (10%) - Pike, Sharon (aut) (10%) - Arif, Namira (aut) (10%) - Singh, Vijay Pratap (aut) (10%) - Deshmukh, Rupesh (aut) (10%) - Sahi, Shivendra (aut) (10%) - Tripathi, Durgesh Kumar (aut) (10%): Aluminum toxicity and aluminum stress-induced physiological tolerance responses in higher plants

Lit.: 133 zázn.

In: Critical Reviews in Biotechnology. - Roč. 41, č. 5 (2021), s. 715-730. - ISSN (print) 0738-8551

*Registrované v:*

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*Indikátor časopisu:*

IF (JCR) 2021=9.062

*Kvartil Q:*

wos-jcr -- Q1 [Biotechnology & applied microbiology] -- 2021

*Ohlasy (3):*

[n1] 2021 zz ~ Pinto, V.B. - Ferreira, P.G. - Vidigal, P.M.P. - de Oliveira Mendes, T.A. - Dal-Bianco, M. - de Magalhaes, J.V. - Viana, J.M.S.: Uncovering the transcriptional response of popcorn (*Zea mays* L. var. *evarta*) under long-term aluminum toxicity. In: Scientific Reports, Vol. 11, No. 1, 2021, Art. No. 19644 -- SCOPUS

[n1] 2021 zz ~ Song, M. - Cui, Y. - Wang, Q. - Zhang, X. - Zhang, J. - Liu, M. - Li, Y.: Ginsenoside Rg3 Alleviates Aluminum Chloride-Induced Bone Impairment in Rats by Activating the TGF-beta1/Smad Signaling Pathway. In: Journal of Agricultural and Food Chemistry, Vol. 69, No. 43, 2021, s. 12634-12644 -- SCOPUS

[n1] 2021 zz ~ Liang, X. - Ou, Y. - Zhao, H. - Zhou, W. - Sun, C. - Lin, X.: Lipid Peroxide-Derived Short-Chain Aldehydes are Involved in Aluminum Toxicity of Wheat (*Triticum aestivum*) Roots. In: Journal of Agricultural and Food Chemistry, Vol. 69, No. 36, 2021, s. 10496-10505 -- SCOPUS

ADC31 Lukačová, Zuzana (aut) [UKOPRBFR] (60%) - Bokor, Boris (aut) [UKOVP] (20%) - Vávrová, Silvia (aut) [UKOPRBMB] (5%) - Šoltys, Katarína (aut) [UKOPRBMV] (5%) - Vaculík, Marek (aut) [UKOPRBFR] (10%): Divergence of reactions to arsenic (As) toxicity in tobacco (*Nicotiana benthamiana*) plants : a lesson from peroxidase involvement

Lit.: 50 zázn.

In: Journal of Hazardous Materials. - č. 417 (2021), s. [1-11], art. no. 126049. - ISSN (print) 0304-3894

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*Indikátor časopisu:*

IF (JCR) 2021=14.224

*Kvartil Q:*

wos-jcr -- Q1 [Environmental sciences] -- 2021

wos-jcr -- Q1 [Engineering, environmental] -- 2021

*Ohlasy (7):*

[n1] 2022 zz ~ Singh, R. - Misra, A.N. - Sharma, P.: Genome wide transcriptional response of contrasting genotypes of industrial crop castor to As(V) stress: Identification of genes and mechanisms associated with As(V) tolerance. In: Industrial Crops and Products, Vol. 2022, No. 179, 2022, art. no. 114678 -- SCOPUS

[n1] 2022 zz ~ Zulfiqar, F. - Ashraf, M.: Antioxidants as modulators of arsenic-induced oxidative stress tolerance in plants: An overview. In: Journal of Hazardous Materials, Vol. 2022, No. 427, 2022, art. no. 127891 -- SCOPUS

[n1] 2022 zz ~ Wang, D. - Li, J. - Yao, X. - Wu, Q. - Zhang, J. - Ye, J. - Xu, H. - Wu, Z. - Cai, D.: Tobacco Waste Liquid-Based Organic Fertilizer Particle for Controlled-Release Fulvic Acid and Immobilization of Heavy Metals in Soil. In: Nanomaterials, Vol. 12, No. 12, 2022, art. no. 2056 -- SCOPUS

[n1] 2022 zz ~ Ahmad, B. - Dar, T.A. - Khan, M.M.A. - Ahmad, A. - Rinklebe, J. - Chen, Y.L. - Ahmad, P.: Oligochitosan fortifies antioxidative and photosynthetic metabolism and enhances secondary metabolite accumulation in arsenic-stressed peppermint. In: Frontiers in Plant Science, Vol. 13, 2022, art. no. 987746 -- SCOPUS ; SCI

[n1] 2022 zz ~ Yang, G.L. - Zheng, M.M. - Liao, H.M. - Tan, A.J. - Feng, D. - Lv, S.M.: Influence of cadmium and microplastics on physiological responses, ultrastructure and rhizosphere microbial community of duckweed. In: Ecotoxicology and Environmental Safety, Vol. 243, 2022, art. no. 114011 -- SCOPUS ; SCI

[n1] 2022 zz ~ Rao, S. - Xiao, X. - Wang, Y. - Xiong, Y. - Cheng, H. - Li, L. - Cheng, S.: Comparative study of the effects of selenium nanoparticles and selenite on selenium content and nutrient quality in soybean sprouts. In: Folia Horticulturae, Vol. 34, No. 2, 2022, s. 223-234, 2022 -- SCOPUS

[n1] 2023 zz ~ Geremew, A. - Carson, L. - Woldesenbet, S. - Wang, H. - Reeves, S. - Brooks, N. Jr. - Saganti, P. - Weerasooriya, A. - Peace, E.: Effect of zinc oxide nanoparticles synthesized from *Carya illinoensis* leaf extract on growth and antioxidant properties of mustard (*Brassica juncea*). In: Frontiers in Plant Science, Vol. 14, 2023, art. no. 1108186 -- SCOPUS

ADC32 Mišúthová, Adriana (aut) [UKOPRBFR] (50%) - Slováková, Ľudmila (aut) [UKOPRBFR] (20%) - Kollárová, Karin (aut) (10%) - Vaculík, Marek (aut) [UKOPRBFR] (20%): Effect of silicon on root growth, ionomics and antioxidant performance of maize roots exposed to As toxicity

Lit.: 81 zázn.

In: Plant Physiology and Biochemistry. - č. 168 (2021), s. 155-166. - ISSN (print) 0981-9428

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IF (JCR) 2021=5.437

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2021

ADC33 Shetty, Rajpal (aut) [UKOPRBFR] (50%) - Chirappurathu, Sukumaran Nair Vidya (aut) [UKOPRBBO] (25%) - Vaculík, Marek (aut) [UKOPRBFR] (25%): Comparison of the single and combined effects of arsenic and antimony on growth and physiology of giant reed (*Arundo donax* L.)

Lit.: 47 zázn.

In: Environmental Science and Pollution Research. - Roč. 28, č. 39 (2021), s. 55476-55485. - ISSN (print) 0944-1344

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*Indikátor časopisu:*

IF (JCR) 2021=5.190

*Kvartil Q:*

wos-jcr -- Q2 [Environmental sciences] -- 2021

ADC34 Shetty, Rajpal (aut) [UKOPRBFR] (40%) - Chirappurathu, Sukumaran Nair Vidya (aut) [UKOPRBBO] (20%) - Prakash, Nagabovanalli Basavarajappa (aut) (10%) - Lux, Alexander (aut) [UKOPRBFR] (10%) - Vaculik, Marek (aut) [UKOPRBFR] (20%): Aluminumtoxicity in plants and its possible mitigation in acid soils by biochar: A review

Lit.: 110 zázň.

In: Science of the Total Environment. - č. 765 (2021), s. [1-11], art. no. 42744. - ISSN (print) 0048-9697

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*Indikátor časopisu:*

IF (JCR) 2021=10.754

*Kvartil Q:*

wos-jcr -- Q1 [Environmental sciences] -- 2021

*Ohlasy (30):*

[o1] 2021 ~ Wei Y. - Han R. - Xie Y. - Jiang C. - Yu Y.: Recent Advances in Understanding Mechanisms of Plant Tolerance and Response to Aluminum Toxicity. In: Sustainability, Vol. 13, No. 4, 2021, Art. No. 1782 -- SCI ; SCOPUS

[o1] 2021 ~ Mohd Suah, F.B. - Ahmad, M. - Heng, L.Y.: Sensor ion al3+ optik berasaskan eriokrom sianin r terpegun dalam membran polimer terangkum menggunakan prinsip pengukuran serapan. In: Malaysian Journal of Analytical Sciences, Vol. 25, No. 2, 2021, s. 296-310 -- SCOPUS

[n1] 2021 zz ~ Ahmed, T. - Noman, M. - Ijaz, M. - Ali, S. - Rizwan, M. - Ijaz, U. - Hameed, A. - Ahmad, U. - Wang, Y. - Sun, G. - Li, B.: Current trends and future prospective in nanoremediation of heavy metals contaminated soils: A wayforward towards sustainable agriculture. In: Ecotoxicology and Environmental Safety, Vol. 227, December, 2021, art. no. 112888 -- SCOPUS

[n1] 2021 zz ~ Buates, J. - Imai, T.: Application of Biochar Functionalized with Layered Double Hydroxides: Improved Plant Growth Performance after Use as Phosphate Adsorbent. In: Applied Sciences, Vol. 11, No. 14, 2021, art. no. 6489 --SCOPUS

[n1] 2021 zz ~ Jamla, M. - Khare, T. - Joshi, S. - Patil, S. - Penna, S. - Kumar, V.: Omics approaches for understanding heavy metal responses and tolerance in plants. In: Current Plant Biology, Vol. 27, September, 2021, art. no. 100213 --SCOPUS

[n1] 2021 zz ~ Joseph, S. - Cowie, A.L. - Van Zwieten, L. - Bolan, N. - Budai, A. - Buss, W. - Cayuela, M.L. - Graber, E.R. - Ippolito, J.A. - Kuzyakov, Y. - Luo, Y. - Ok, Y.S. - Palansooriya, K.N. - Shepherd, J. - Stephens, S. - Weng, Z. -Lehmann, J.: How biochar works, and when it doesn't: A review of mechanisms controlling soil and plant responses to biochar. In: GCB Bioenergy, Vol. 13, No. 11, 2021, s. 1731-1764 -- SCOPUS

[n1] 2021 zz ~ Tamariz-Angeles, C. - Huaman, G.D. - Palacios-Robles, E. - Olivera-Gonzales, P. - Castaneda-Barreto, A.: Characterization of siderophore-producing microorganisms associated to plants from high-Andean heavy metal polluted soilfrom Callejon de Huaylas (Ancash, Peru). In: Microbiological Research, Vol. 250, September, 2021, art. no. 126811 -- SCOPUS

[n1] 2022 zz ~ Beggio, G. - Peng, W. - Lu, F. - Cerasaro, A. - Bonato, T. - Pivato, A.: Chemically Enhanced Solid-Liquid Separation of Digestate: Suspended Solids Removal and Effects on Environmental Quality of Separated Fractions. In: Wasteand Biomass Valorization, Vol. 13, No. 2, 2022, s. 1029-1041 -- SCOPUS

[n1] 2022 zz ~ Bilal, S. - Khan, A. - Imran, M. - Khan, A.L. - Asaf, S. - Al-Rawahi, A. - Al-Azri, M.S.A. - Al-Harrasi, A. - Lee, I.-J.: Silicon- and Boron-Induced Physio-Biochemical Alteration and Organic Acid Regulation Mitigates AluminumPhytotoxicity in Date Palm Seedlings. In: Antioxidants, Vol. 11, No. 6, 2022, art. no. 1063 -- SCOPUS



- [n1] 2022 zz ~ Nguyen, B.T. - Dinh, G.D. - Nguyen, T.X. - Nguyen, D.T.P. - Vu, T.N. - Tran, H.T.T. - Van Thai, N. - Vu, H. - Do, D.D.: The Potential of Biochar to Ameliorate the Major Constraints of Acidic and Salt-Affected Soils. In: *Journal of Soil Science and Plant Nutrition*, Vol. 22, No. 2, 2022, s. 1340-1350 -- SCOPUS
- [n1] 2022 zz ~ Nguyen, B.T. - Nguyen, V.N. - Nguyen, T.X. - Nguyen, M.H. - Dong, H.P. - Dinh, G.D. - Phan, B.T. - Pham, T.-V., Van Thai, N. - Tran, H.T.T.: Biochar Enhanced Rice (*Oryza sativa* L.) Growth by Balancing Crop Growth-Related Characteristics of Two Paddy Soils of Contrasting Textures. In: *Journal of Soil Science and Plant Nutrition*, Vol. 22, No. 2, 2022, 2013-2025 -- SCOPUS
- [n1] 2022 zz ~ Christou, A. - Stylianou, M. - Georgiadou, E.C. - Gedeon, S. - Ioannou, A. - Michael, C. - Papanastasiou, P. - Fotopoulos, V. - Fatta-Kassinou, D.: Effects of biochar derived from the pyrolysis of either biosolids, manure or spent coffee grounds on the growth, physiology and quality attributes of field-grown lettuce plants. In: *Environmental Technology and Innovation*, Vol. 26, May, 2022, art. no. 102263 -- SCOPUS
- [n1] 2022 zz ~ Dar, F.A. - Tahir, I. - Hakeem, K.R. - Ul Rehman, R.: Silicon Application Enhances the Photosynthetic Pigments and Phenolic/Flavonoid Content by Modulating the Phenylpropanoid Pathway in Common Buckwheat under Aluminium Stress. In: *Silicon*, Vol. 14, No. 1, 2022, s. 323-334 -- SCOPUS
- [n1] 2022 zz ~ Deng, J. - Liu, Y. - Li, H. - Huang, Z. - Qin, X. - Huang, J. - Zhang, X. - Li, X. - Lu, Q.: A novel biochar-copolymer composite for rapid Cr(VI) removal: Adsorption-reduction performance and mechanism. In: *Separation and Purification Technology*, Vol. 295, August, 2022, art. no. 121275 -- SCOPUS
- [n1] 2022 zz ~ Guerin, T.F.: Phytotoxicity complements chemical assessment for re-use and re-purposing of refinery wastes for soil amendment purposes after bioremediation. In: *Journal of Environmental Management*, Vol. 317, September, 2022, art. no. 115257 -- SCOPUS
- [n1] 2022 zz ~ Liang, X. - Ou, Y. - Zhao, H. - Qian, R. - Sun, C. - Lin, X.: Short-chain aldehydes increase aluminum retention and sensitivity by enhancing cell wall polysaccharide contents and pectin demethylation in wheat seedlings. In: *Journal of Hazardous Materials*, Vol. 433, July, 2022, art. no. 128743 -- SCOPUS
- [n1] 2022 zz ~ Liu, J. - Li, W. - Walayat, N. - Liu, S. - Ding, Y. - Song, S.: A calcined shell powder used for minimizing aluminum concentration in the soil of tea plantations. In: *Environmental Pollutants and Bioavailability*, Vol. 34, No. 1, 2022, s. 190-201 -- SCOPUS
- [n1] 2022 zz ~ Mosharraf, M. - Uddin, M.K. - Mia, S. - Sulaiman, M.F. - Shamsuzzaman, S.M. - Haque, A.N.A.: Influence of Rice Husk Biochar and Lime in Reducing Phosphorus Application Rate in Acid Soil: A Field Trial with Maize. In: *Sustainability*, Vol. 14, No. 12, 2022, art. no. 7418 -- SCOPUS
- [n1] 2021 zz ~ Llovet, A. - Mattana, S. - Chin-Pampillo, J. - Gasco, G. - Sanchez, S. - Mondini, C. - Briones, M.J.I. - Marquez, L. - Alcaniz, J.M. - Ribas, A. - Domene, X.: Long-term effects of gasification biochar application on soil functions in a Mediterranean agroecosystem: Higher addition rates sequester more carbon but pose a risk to soil faunal communities. In: *Science of the Total Environment*, Vol. 801, December, 2021, art. no. 149580 -- SCOPUS
- [n1] 2022 zz ~ Panda, L. - Kumar, M. - Pradhan, A.: Leaching of Sulphate From Biochar and Phosphogypsum-Biochar for the Treatment of Acidic Red Soil. In: *Asian Journal of Water, Environment and Pollution*, Vol. 19, No. 3, 2022, s. 23-29 -- SCOPUS
- [n1] 2021 zz ~ Szewinska, J. - Rozanska, E. - Papierowska, E. - Labudda, M.: Proteolytic and Structural Changes in Rye and Triticale Roots under Aluminum Stress. In: *Cells*, Vol. 10, No. 11, 2021, art. no. 3046 -- SCOPUS
- [n1] 2022 zz ~ Ren, J. - Yang, X. - Zhang, N. - Feng, L. - Ma, C. - Wang, Y. - Yang, Z. - Zhao, J.: Melatonin alleviates aluminum-induced growth inhibition by modulating carbon and nitrogen metabolism, and reestablishing redox homeostasis in *Zea mays* L. In: *Journal of Hazardous Materials*, Vol. 423, February, 2022, art. no. 127159 -- SCOPUS
- [n1] 2022 zz ~ Senze, M. - Kowalska-Goralska, M. - Czyz, K.: Aluminum Bioaccumulation in Reed Canary Grass (*Phalaris arundinacea* L.) from Rivers in Southwestern Poland. In: *International Journal of Environmental Research and Public Health*, Vol. 19, No. 5, 2022, art. no. 2930 -- SCOPUS
- [n1] 2022 zz ~ Vahidi, M.J. - Zahan, M.H.S. - Atajan, F.A. - Parsa, Z.: The effect of biochars produced from barberry and jujube on erosion, nutrient, and properties of soil in laboratory conditions. In: *Soil and Tillage Research*, Vol. 219, May, 2022, art. no. 105345 -- SCOPUS
- [n1] 2022 zz ~ Zhang, C. - Xie, P. - Zhang, Q. - Xing, Y. - Cao, Q. - Qin, L. - Fang, K.: Low Concentration of Aluminum-Stimulated Pollen Tube Growth of Apples (*Malus domestica*). In: *Plants*, Vol. 11, No. 13, 2022, art. no. 1705 -- SCOPUS
- [n2] 2021 zz ~ de Araujo, M.P. - El-Deir, S.G. - Tavares, R.G.: *Lactuca sativa* as bioindicator of aluminum contamination in water treatment plant sludge. In: *S&G Journal*, Vol. 16, No. 2, 2021, s. 180

[n1] 2021 zz ~ Apori, S.O. - Byalebeka, J. - Murongo, M. - Ssekandi, J. - Noel, G.L.: Effect of co-applied corncob biochar with farmyard manure and NPK fertilizer on tropical soil. In: Resources, Environment and Sustainability, Vol. 5, 2021, Art. No. 100034 -- SCOPUS

[n1] 2021 zz ~ Putra, E.T.S. - Purwanto, B.H. - Wulandari, C. - Alam, T.: Metabolic activities of eight oil palm progenies grown under aluminum toxicity. In: Biodiversitas, Vol. 22, No. 8, 2021, s. 3146-3155 -- SCOPUS

[n1] 2021 zz ~ Sandhya, K. - Basavarajappa, P.N.: Release Pattern of Dissolved Silicon and Its Budgeting under Rice Planted and Unplanted Condition in Acidic, Neutral and Alkaline Soils. In: Communications in Soil Science and Plant Analysis, Vol. 52, No. 21, 2021, s. 2667-2683 -- SCOPUS

[n1] 2021 zz ~ Yazdani, M. - Enteshari, S. - Saadatmand, S. - Habibolahi, S.: Effects of silicon on glycine-betaine, phytochelatin, and antioxidant enzymes in licorice (*Glycyrrhiza glabra* L.) under aluminum stress. In: Iranian Journal of Plant Physiology, Vol. 11, No. 2, 2021, s. 3625-3635 -- SCOPUS

ADC35 Shetty, Rajpal (aut) [UKOPRBFR] (50%) - Chirappurathu, Sukumaran Nair Vidya (aut) [UKOPRBBO] (20%) - Weidinger, Marieluise (aut) (10%) - Vaculík, Marek (aut) [UKOPRBFR] (20%): Silicon alleviates antimony phytotoxicity in giant reed

Lit.: 55 záz.

In: Planta. - Roč. 254, č. 5 (2021), s. [1-11], art. no. 100. - ISSN (print) 0032-0935

*Registrované v:*

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*Indikátor časopisu:*

SJR

IF (JCR) 2021=4.540

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2021

ADC36 Tripathi, Durgesh Kumar (aut) (10%) - Vishwakarma, Kanchan (aut) (10%) - Singh, Vijay Pratap (aut) (10%) - Prakash, Ved (aut) (10%) - Sharma, Shivesh (aut) (10%) - Muneer, Sowbiya (aut) (10%) - Nikolič, Miroslav (aut) (10%) - Deshmukh, Rupesh (aut) (10%) - Vaculík, Marek (aut) [UKOPRBFR] (10%) - Corpas, Francisco J (aut) (10%): Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules

Lit.: 170 záz.

In: Journal of Hazardous Materials. - č. 408 (2021), s. [1-10], art. no 24820. - ISSN (print) 0304-3894

*Registrované v:*

SCO SCOPUS

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*Indikátor časopisu:*

IF (JCR) 2021=14.224

*Kvartil Q:*

wos-jcr -- Q1 [Environmental sciences] -- 2021

wos-jcr -- Q1 [Engineering, environmental] -- 2021

*Ohlasy (10):*

[n1] 2021 zz ~ Zhou, C. - Li, D. - Shi, X. - Zhang, J. - An, Q. - Wu, Y. - Kang, L. - Li, J.-Q. - Pan, C.: Nanoselenium Enhanced Wheat Resistance to Aphids by Regulating Biosynthesis of DIMBOA and Volatile Components. In: Journal of Agricultural and Food Chemistry, Vol. 69, No. 47, 2021, s. 14103-14114 -- SCOPUS

[n1] 2021 zz ~ Etesami, H. - Fatemi, H. - Rizwan, M.: Interactions of nanoparticles and salinity stress at physiological, biochemical and molecular levels in plants: A review. In: Ecotoxicology and Environmental Safety, Vol. 225, 2021, Art.No. 112769 -- SCOPUS

[n1] 2021 zz ~ Khan, I. - Awan, S.A. - Rizwan, M. - Ali, S. - Hassan, M.J. - Brestic, M. - Zhang, X. - Huang, L.: Effects of silicon on heavy metal uptake at the soil-plant interphase: A review. In: Ecotoxicology and Environmental Safety, Vol.222, 2021, Art. No. 112510 -- SCOPUS

- [n1] 2021 zz ~ Basu, S. - Kumar, G.: Exploring the significant contribution of silicon in regulation of cellular redox homeostasis for conferring stress tolerance in plants. In: Plant Physiology and Biochemistry, Vol. 166, 2021, s. 393-404 --SCOPUS
- [n1] 2021 zz ~ Patel, M. - Fatnani, D. - Parida, A.K.: Silicon-induced mitigation of drought stress in peanut genotypes (*Arachis hypogaea* L.) through ion homeostasis, modulations of antioxidative defense system, and metabolic regulations. In: Plant Physiology and Biochemistry, Vol. 166, 2021, s. 290-313 -- SCOPUS
- [n1] 2021 zz ~ Arif, Y. - Singh, P. - Bajguz, A. - Alam, P. - Hayat, S.: Silicon mediated abiotic stress tolerance in plants using physio-biochemical, omic approach and cross-talk with phytohormones. In: Plant Physiology and Biochemistry, Vol.166, 2021, s. 278-289 -- SCOPUS
- [n1] 2021 zz ~ Hong, D.-K. - Talha, J. - Yao, Y. - Zou, Z.-Y. - Fu, H.-Y. - Gao, S.-J. - Xie, Y. - Wang, J.-D.: Silicon enhancement for endorsement of *Xanthomonas albilineans* infection in sugarcane. In: Ecotoxicology and Environmental Safety, Vol. 220, 2021, Art. No. 112380 -- SCOPUS
- [n1] 2021 zz ~ Malik, M.A. - Wani, A.H. - Mir, S.H. - Rehman, I.U. - Tahir, I. - Ahmad, P. - Rashid, I.: Elucidating the role of silicon in drought stress tolerance in plants. In: Plant Physiology and Biochemistry, Vol. 165, 2021, s. 187-195-- SCOPUS
- [n1] 2021 zz ~ Biju, S. - Fuentes, S. - Gupta, D.: Silicon modulates nitro-oxidative homeostasis along with the antioxidant metabolism to promote drought stress tolerance in lentil plants. In: Physiologia Plantarum, Vol. 172, No. 2, 2021, s.1382-1398 -- SCOPUS
- [n1] 2021 zz ~ Pirooz, P. - Amooaghaie, R. - Ahadi, A. - Shariffifar, F.: Silicon- induced nitric oxide burst modulates systemic defensive responses of *Salvia officinalis* under copper toxicity. In: Plant Physiology and Biochemistry, Vol. 162,2021, s. 752-761 -- SCOPUS

ADC37 Vaculík, Marek (aut) [UKOPRBFR] (25%) - Kováč, Ján (aut) (15%) - Fialová, Ivana (aut) (15%) - Fiala, Roderik (aut) (15%) - Jašková, Katarína (aut) (15%) - Luxová, Miroslava (aut) (15%): Multiple effects of silicon on alleviation of nickeltoxicity in young maize roots

In: Journal of Hazardous Materials. - č. 415 (2021), s. [1-13], art. no. 125570. - ISSN (print) 0304-3894

*Registrované v:*

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*Indikátor časopisu:*

IF (JCR) 2021=14.224

*Kvartil Q:*

wos-jcr -- Q1 [Environmental sciences] -- 2021

wos-jcr -- Q1 [Engineering, environmental] -- 2021

ADC38 Yadav, Vaishali (aut) (10%) - Arif, Namira (aut) (10%) - Kováč, Ján (aut) (25%) - Singh, Vijay Pratap (aut) (10%) - Tripathi, Durgesh Kumar (aut) (10%) - Chauhan, Devendra Kumar (aut) (10%) - Vaculík, Marek (aut) [UKOPRBFR] (25%): Structuralmodifications of plant organs and tissues by metals and metalloids in the environment : a review

Lit.: 151 zázň.

In: Plant Physiology and Biochemistry. - č. 159 (2021), s. 100-112. - ISSN (print) 0981-9428

*Registrované v:*

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SCIE Science Citation Index Expanded

*Indikátor časopisu:*

IF (JCR) 2021=5.437

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2021

*Ohlasy (3):*

[n1] 2021 zz ~ Diquattro, S. - Garau, G. - Garau, M. - Lauro, G.P. - Pinna, M.V. - Castaldi, P.: Effect of municipal solid waste compost on antimony mobility, phytotoxicity and bioavailability in polluted soils. In: Soil Systems, Vol. 5, No.4, 2021, Art. No. 60 -- SCOPUS

- [n1] 2021 zz ~ Lin, L.-D. - Ma, Z.-L. - Chen, B.-B. - Wu, M.-J.: Analysis of physiological and ecological functions to mature sporophyte of cultivation *Sargassum fusiforme* based on its organ morphological structure. In: *Oceanologia et Limnologia Sinica*, Vol. 52, No. 4, 2021, s. 1047-1057 -- SCOPUS
- [n1] 2021 zz ~ Angulo-Bejarano, P.I. - Puente-Rivera, J. - Cruz-Ortega, R.: Metal and metalloid toxicity in plants: An overview on molecular aspects. In: *Plants*, Vol. 10, No. 4, 2021, Art. No. 635 -- SCOPUS

#### **ADD Vedecké práce v domácích karentovaných časopisoch**

- ADD01 Vaculíková, Miroslava (aut) [UKOPRBBO] (40%) - Vaculík, Marek (aut) [UKOPRBFR] (30%) - Lux, Alexander (aut) [UKOPRBFR] (10%) - Di Baccio, Daniela (aut) (5%) - Minnocci, Antonio (aut) (5%) - Andreucci, Andrea (aut) (5%) - Sebastiani, Luca (aut) (5%): Anatomical differences of poplar (*Populus x euramericana* clone I-214) roots exposed to zinc excess  
Lit.: 32 záz.n., 5 obr., 2 tab.  
In: *Biologia*. - Vol. 67, No. 3 (2012), s. 483-489. - ISSN (print) 0006-3088  
*Registrované v:*  
WOS CC Web of Science Core Collection  
SCOPUS SCOPUS  
CCC Current Content Connect  
*Indikátor časopisu:*  
IF (JCR) 2012=0,506  
*Ohlasy (18):*  
[o1] 2013 ~ Gaetani, M. - Lulli, F. - Andreucci, A. - Masini, A. - Vittori, G. - Volterrani, M.: Propagation of Ornamental Plants, Vol. 13, No. 2, 2013, s. 57-64 -- SCI ; SCOPUS  
[o1] 2013 ~ Tognetti, R. - Cocozza, C. - Marchetti, M.: *IForest*, Vol. 6, January, 2013, s. 37-47 -- SCI ; SCOPUS  
[o1] 2014 ~ Cocozza, C. - Vitullo, D. - Lima, G. - Maiuro, L. - Marchetti, M. - Tognetti, R.: *Environmental Science and Pollution Research*, Vol. 21, No. 3, 2014, s. 1796-1808 -- SCI ; SCOPUS  
[o1] 2014 ~ Wan, X.M - Lei, M - Chen, T.B - Zhou, G.D - Yang, J - Zhou, X.Y - Zhang, X. - Xu, R.X.: *Environmental Science and Pollution Research*, Vol. 21, No. 1, 2014, s. 325-336 -- SCI ; SCOPUS  
[o1] 2014 ~ Romeo, S. - Trupiano, D. - Ariani, A. - Renzone, G. - Scippa, G.S. - Scaloni, A. - Sebastiani, L.: *Journal of Plant Physiology*, Vol. 171, No. 12, 2014, s. 1054-1063 -- SCI ; SCOPUS  
[o1] 2015 ~ Wang, P. - Chen, N.-L. - Zou, X.-H. - Ma, X.-Q. - Wu, P.-F.: *Chinese Journal of Ecology*, Vol. 34, No. 2, 2015, s. 550-556 -- SCOPUS  
[o1] 2015 ~ Ben Ammar, W. - Zarrouk, M. - Nouairi, I.: *Biologia*, Vol. 70, No. 2, 2015, s. 198-207 -- SCI ; SCOPUS  
[o1] 2015 ~ Rossi, L. - Francini, A. - Minnocci, A. - Sebastiani, L.: *Scientia Horticulturae*, Vol. 192, August, 2015, s. 38-46 -- SCI ; SCOPUS  
[o1] 2015 ~ Lucisine, P. - Lecerf, A. - Danger, M. - Felten, V. - Aran, D. - Auclerc, A. - Gross, E.M. - Huot, H. - Morel, J.L. - Muller, S. - Nahmani, J. - Maunoury-Danger, F.: *Science of the Total Environment*, Vol. 537, December, 2015, s.213-224 -- SCI ; SCOPUS  
[o1] 2016 ~ Luo, Z.-B. - He, J. - Polle, A. - Rennenberg, H.: *Biotechnology Advances*, Vol. 34, No. 6, 2016, s. 1131-1148 -- SCOPUS  
[o1] 2017 ~ Rossi, L. - Zhang, W. - Ma, X.: *Environmental Pollution*, Vol. 229, October, 2017, s. 132-138 -- SCI ; SCOPUS  
[o1] 2017 ~ Iori, V. - Pietrini, F. - Bianconi, D. - Mughini, G. - Massacci, A. - Zacchini, M.: *IForest*, Vol. 10, No. 2, 2017, s. 416-421 -- SCI ; SCOPUS  
[o1] 2017 ~ Rossi, L. - Zhang, W.L. - Schwab, A.P. - Ma, X.M.: *Environmental Science&Technology*, Vol. 51, No. 21, 2017, s. 12815-12824 -- SCI  
[o1] 2018 ~ Somavilla, L.M. - Simao, D.G. - Tiecher, T.L. - Hammerschmitt, R.K. - de Oliveira, J.M.S. - Mayer, N.A. - Pavanello, E.P. - Trentin, E. - Belles, S.W. - Brunetto, G.: *Scientia Horticulturae*, Vol. 237, July, 2018, s. 1-10 -- SCI  
[o1] 2019 ~ Xu, X.H. - Yang, B.S. - Qin, G.H. - Wang, H. - Zhu, Y.D. - Zhang, K.Z. - Yang, H.Q.: *Environmental Science and Pollution Research*, Vol. 26, No. 19, 2019, s. 19770-19784 -- SCI  
[o1] 2019 ~ Guo, J.-M. - Yang, J.-X. - Yang, J. - Chen, T.-B. - Li, H.-E. - Xu, T.-B. - Zhou, X.-Y. - Ye, Y. - Yu, B.: *Huanjing Kexue/Environmental Science*, Vol. 40, No. 1, 2019, s. 470-479 -- SCOPUS

[n1] 2021 zz ~ Grunhofer, P. - Guo, Y. - Li, R. - Lin, J. - Schreiber, L.: Hydroponic cultivation conditions allowing the reproducible investigation of poplar root suberization and water transport. In: Plant Methods, Vol. 17, No. 1, 2021, Art.No. 129 -- SCOPUS

[n1] 2021 zz ~ Lukacova, Z. - Svubova, R. - Selvekova, P. - Hensel, K.: The effect of plasma activated water on maize (*Zea mays* L.) under arsenic stress. In: Plants, Vol. 10, No. 9, 2021, Art. No. 1899 -- SCOPUS

ADD02 Račko, Matúš (aut) [UKOPRGMPLG] (20%) - Ozdín, Daniel (aut) [UKOPRGMPLG] (20%) - Ozdínová, Gabriela (aut) [UKOPRGMPLG] (20%) - Jurkovič, Ľubomír (aut) [UKOPREGE] (20%) - Vaculík, Marek (aut) [UKOPRBFR] (20%): Occurrence and uptake of heavy metals by selected terrestrial orchids in extreme conditions of initial soils on previous mining sites

Lit.: 66 záz.

In: *Biologia*. - Roč. 76, č. 7 (2021), s. 2113-2122. - ISSN (print) 0006-3088

*Registrované v:*

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*Indikátor časopisu:*

IF (JCR) 2021=1.653

Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2017=1

*Kvartil Q:*

wos-jcr -- Q3 [Biology] -- 2021

*Ohlasy (1):*

[o2] 2021 ~ Eliáš, P. - Hegedúšová - Vantarová, K.: Progress in Slovak botany: a successful path to modern research on flora and vegetation. In: *Biologia*, Vol. 76, No. 7, 2021, s. 1901-1907 -- SCOPUS

#### **ADF Vedecké práce v ostatných domácich časopisoch**

ADF01 Jurkovič, Ľubomír (aut) [UKOPREGE] (20%) - Šottník, Peter (aut) [UKOPRGMPLG] (20%) - Fláková, Renáta (aut) [UKOPRGIHG] (20%) - Jankulár, Michal (aut) [UKOPREGE] (20%) - Ženišová, Zlatica (aut) [UKOPRGRHY] (10%) - Vaculík, Marek (aut) [UKOPRBFR] (10%): Opustené Sb ložisko Poproč - zdroj kontaminácie prírodných zložiek v povodí Olšavy

Lit.: 54 záz., 4 obr., 4 tab.

In: *Mineralia Slovaca*. - Vol. 42, No. 1 (2010), s. 109-120. - ISSN 0369-2086

*Ohlasy (19):*

[o4] 2010 ~ Matejkovič, P. - Baštecký, A.: Zhodnotenie zaťaženia pôd rizikovými prvkami v oblasti opusteného Sb-ložiska Pernek a ich vplyv na životné prostredie. In: *Cambelove dni 2010*. Bratislava : Univerzita Komenského, 2010, S. 41-45

[o4] 2011 ~ Bačová, N.: Chemické zloženie bankských vôd oblasti Medzev - Poproč - Zlatá Idka. In: *Geochémia 2011*. Bratislava : Štátny geologický ústav Dionýza Štúra, 2011, S. 15

[o1] 2012 ~ Lalinská-Voleková, B. - Majzlan, J. - Klimko, T. - Chovanovan, M. - Kucerová, G. - Michnová, J. - Hovorica, R. - Göttlicher, J. - Steininger, R.: *Canadian Mineralogist*, Vol. 50, No. 2, 2012, s. 481-500 -- SCOPUS

[o4] 2011 ~ Čurlík, J.: Potenciálne toxické stopové prvky a ich distribúcia v pôdach Slovenska. Bratislava : Jaroslav Suchoň-Suma print, 2011, S. 437

[o3] 2011 ~ Littera, P.: Kontaminácia pitnej vody arzénom: prehľad najviac zaťažených oblastí sveta a niekoľko príkladov zo Slovenska. In: *Arzén - výskyt, metabolizmus, toxicita, analytické stanovenie a využitie v didaktike*. Ostrava : Technická univerzita Ostrava, 2011, S. 20

[o4] 2014 ~ Jesenák, K. - Kadlečíková, M. - Breza, J. - Hubeňák, M. - Kolmačka, M. - Bálintová, M.: Syntéza uhlíkových nanorúrok na odpadoch po ťažbe rudných surovín na Slovensku. In: *Geochémia 2014*. Bratislava : Štátny geologický ústav Dionýza Štúra, 2014, S. 85

[o3] 2015 ~ Klimko, T.: Mineralogical and geochemical study of mine waste weathering products. Ostrava : Technical university of Ostrava, 2015, S. 85

[o4] 2015 ~ Juhásová, J. - Čerňanský, S. - Beláková, E. - Šimonovičová, A.: Bioakumulácia a biovolatilizácia arzenu a antimónu z kontaminovaných pôd v laboratórnych podmienkach. In: *Acta Environmentalica Universitatis Comenianae*, roč. 23, č.2, 2015, s. 34

- [o4] 2015 ~ Šimonovičová, A. - Čerňanský, S. - Peťková, K.: Mikrobiologická charakteristika opusteného antimónového ložiska na lokalite Poproč. In: Geochémia 2015. Bratislava : Štátny geologický ústav Dionýza Štúra, 2015, S. 159
- [o1] 2015 ~ Bellová, R. - Tomčíková, I.: International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, Vol. 1, No. 5. Sofia : STEF 92 Technology, 2014, S. 161-168 -- SCOPUS
- [o4] 2016 ~ Šimonovičová, A. - Čerňanský, S.: Mikroskopické vláknité huby izolované z pôdy a z odkaliska opusteného antimónového ložiska na lokalite Poproč a ich enzymatická aktivita. In: Geochémia 2016. Zborník vedeckých príspevkov z konferencie. Bratislava : Štátny geologický ústav Dionýza Štúra, 2016, S. 148
- [o4] 2016 ~ Hredzák, S. - Zubrik, A. - Lovás, M. - Matik, M. - Dolinská, S. - Znamenáčková, I. - Bendek, F.: Cadmium: a brief review. In: Situation in ecologically loaded regions of Slovakia and Central Europe. Košice : Slovenská baníckaspoločnosť ZSVTS, 2016, S. 157
- [o4] 2017 ~ Boturová, K. - Blinková, M. - Babičová, A.: Význam identifikácie izolovaných mikroorganizmů z antimónového odkališťa Poproč. In: Geochémia 2017. Zborník vedeckých príspevkov z konferencie. Bratislava : Štátny geologický ústav Dionýza Štúra, 2017, S. 14
- [o4] 2018 ~ Vojtková, H. - Boturová, K.: Rezistencia bakteriálnych izolátů z odkališťa Poproč s využitím PCR. In: Geochémia 2018. Bratislava : ŠGÚDŠ, 2018, S. 144
- [o1] 2018 ~ Boturová, K. - Blinková, M.: Use biochemical parameters for identification of new gram-positive isolates and their variability. In: International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, Vol. 18, No. 5.2. Sofia : International Multidisciplinary Scientific Geoconference, 2018, S. 151-156 -- SCOPUS
- [o1] 2019 ~ Ilavský, J. - Barloková, D.: Influence of mining activities on quality of groundwater. In: Handbook of Environmental Chemistry, Vol. 69. Berlin : Springer Verlag, 2019, S. 303-331 -- BKCI-S
- [o1] 2019 ~ Šimonovičová, A. - Kraková, L. - Paudítšová, E. - Pangallo, D.: Ecotoxicology and Environmental Safety, Vol. 172, May, 2019, s. 194-202 -- SCI ; SCOPUS
- [o1] 2019 ~ Bálintová, M. - Singovszká, E. - Holub, M. - Demčák, Š.: Handbook of Environmental Chemistry, Vol. 69, 2019, s. 239-258 -- SCOPUS
- [o4] 2019 ~ Kordík, J. - Slaninka, I. - Bahnová, N. - Benková, K. - Bottlik, F. - Fričovská, J. - Fričovský, B. - Jankulár, M. - Jelínek, R. - Dananaj, I. - Gonda, S. - Mašlárová, I. - Gazdačko, E. - Surový, M. - Kúšik, D. - Vasilenková, A. - Siska, M.: Influence of Monitored Environmental Burdens on Groundwater and Surface Water Quality - Case Studies. In: Slovak Geological Magazine, Vol. 19, No. 2, 2019, s. 52

#### **ADM Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

- ADM01 Gregor, Maria (aut) (40%) - Landberg, Tommy (aut) (40%) - Vaculík, Marek (aut) [UKOPRBFR] (20%): Silicon Influences Soil Availability and Accumulation of Mineral Nutrients in Various Plant Species [elektronický dokument]  
Lit.: 71 zázn.  
In: Plants-Basel [elektronický dokument]. - Roč. 7, č. 2 (2018), s. [1-16], Art. no. 41 [online]. - ISSN (online) 2223-7747  
*Registrované v:*  
WOS CC Web of Science Core Collection  
SCO SCOPUS  
*Indikátor časopisu:*  
IF (JCR) 2018=2,632  
*Kvartil Q:*  
wos-jcr -- Q2 [Plant sciences] -- 2018  
*Ohlasy (63):*  
[o1] 2019 ~ Grasic, M. - Dobravec, M. - Golob, A. - Vogel-Mikus, K. - Gaberscik, A.: Agricultural Water Management, Vol. 217, 2019, s. 47-56 -- SCI  
[o1] 2019 ~ Nawaz, M.A. - Zakharenko, A.M. - Zemchenko, I.V. - Haider, M.S. - Ali, M.A. - Imtiaz, M. - Chung, G. - Tsatsakis, A. - Sun, S. - Golokhvast, K.S.: Plants-Basel, Vol. 8, No. 8, 2019, Art. No. 249 -- SCI  
[o1] 2019 ~ Alsaedi, A. - El-Ramady, H. - Alshaal, T. - El-Garawany, M. - Elhawat, N. - Al-Otaibi, A.: Plant Physiology and Biochemistry, Vol. 139, 2019, s. 1-10 -- SCI  
[o1] 2019 ~ Ramirez-Olvera, S.M. - Trejo-Tellez, L.I. - Perez-Sato, J.A. - Gomez-Merino, F.C.: Journal of Plant Nutrition, Vol. 42, No. 16, 2019, s. 1928-1940 -- SCI

- [o1] 2019 ~ Bhat, J.A. - Shivaraj, S.M. - Singh, P. - Navadagi, D.B. - Tripathi, D.K. - Dash, P.K. - Solanke, A.U. - Sonah, H. - Deshmukh, R.: *Plants-Basel*, Vol. 8, No. 3, 2019, Art. No. 71 -- SCI
- [o1] 2019 ~ Laine, P. - Haddad, C. - Arkoun, M. - Yvin, J.C. - Etienne, P.: *Plants-Basel*, Vol. 8, No. 5, 2019, Art. No. 137 -- SCI
- [o1] 2019 ~ Aioub, A.A.A. - Li, Y.K. - Qie, X.T. - Zhang, X.X. - Hu, Z.N.: *Environmental Sciences Europe*, Vol. 31, 2019, Art. No. 26 -- SCI
- [o1] 2019 ~ Sekifuji, R. - Van, Chieu L. - Tateda, M.: *International Journal of Recycling of Organic Waste in Agriculture*, Vol. 8, December, 2019, s. 311-319 -- SCOPUS ; SCI
- [o1] 2019 ~ Zelenkov, V.N. - Ivanova, M.I. - Potapov, V.V.: Hydrothermal nanosilica in the agrotechnology of radish cultivated in the conditions of low positive temperature. In: *AIP Conference Proceedings*, Vol. 2063, January. Maryland :American Institute of Physics, 2019, Art. No. 040069 -- SCOPUS
- [o1] 2020 ~ Sary, D.H. - Rashad, R.T.: A Comparative Study on the Impact of Compost, Humate, and Silicate on the Nutritional Characteristics of Calcareous Soil Cultivated by Soybean. In: *Sarhad Journal of Agriculture*, Vol. 36, No. 4, 2020, s.1227-1235 -- SCOPUS
- [o1] 2020 ~ Frazao, J.J. - Prado, R.M. - de Souza Junior, J.P. - Rossatto, D.R.: Silicon changes C:N:P stoichiometry of sugarcane and its consequences for photosynthesis, biomass partitioning and plant growth. In: *Scientific Reports*, Vol. 10, No. 1, 2020, Art. No. 12492 -- SCOPUS
- [o1] 2020 ~ Islam, T. - Moore, B.D. - Johnson, S.N.: Novel evidence for systemic induction of silicon defences in cucumber following attack by a global insect herbivore. In: *Ecological Entomology*, Vol. 45, No. 6, 2020, s. 1373-1381 -- SCOPUS
- [o1] 2020 ~ Ali, N. - Rethore, E. - Yvin, J.-C. - Hosseini, S.A.: The regulatory role of silicon in mitigating plant nutritional stresses. In: *Plants*, Vol. 9, No. 12, 2020, Art. No. 1779 -- SCOPUS
- [o1] 2020 ~ Udalova, Z.V. - Folmanis, G.E. - Fedotov, M.A. - Pelgunova, L.A. - Krysanov, E.Y. - Khasanov, F.K. - Zinovieva, S.V.: Effects of Silicon Nanoparticles on Photosynthetic Pigments and Biogenic Elements in Tomato Plants Infected with Root-Knot Nematode *Meloidogyne incognita*. In: *Doklady Biochemistry and Biophysics*, Vol. 495, No. 1, 2020, s. 329-333 -- SCOPUS
- [o1] 2020 ~ El\_Komy, M.H. - Ibrahim, Y.E. - Saleh, A.A. - Molan, Y.Y.: Integration of rhizobacterial mixture and silicon nutrition shows potential for the management of charcoal rot of sunflowers caused by *Macrophomina phaseolina* in semi-arid regions. In: *Journal of Plant Pathology*, Vol. 102, No. 4, 2020, s. 1227-1239 -- SCOPUS
- [o1] 2020 ~ Islam, W. - Tayyab, M. - Khalil, F. - Hua, Z. - Huang, Z. - Chen, H.Y.H.: Silicon-mediated plant defense against pathogens and insect pests. In: *Pesticide Biochemistry and Physiology*, Vol. 168, 2020, Art. No. 104641 -- SCOPUS
- [o1] 2020 ~ Mastalerczuk, G. - Borawska-Jarmu owicz, B. - D browski, P. - Szara, E. - Perzanowska, A. - Wrobel, B.: Can the application the silicon improve the productivity and nutritional value of grass-clover sward in conditions of rainfallshortage in organic management?. In: *Agronomy*, Vol. 10, No. 7, 2020, Art. No. 1007 -- SCOPUS
- [o1] 2020 ~ Rashad, R.T. - R. El-Zanaty, M. - A. El-Bialy, R.: Effect of Crop Rotations and Continuous Fertilization on the Status of Silicon (Si) Available in Soil in a 97-Year Permanent Experiment. In: *Communications in Soil Science and Plant Analysis*, Vol. 51, No. 11, 2020, s. 1443-1456 -- SCOPUS
- [o1] 2020 ~ Rethore, E. - Ali, N. - Yvin, J.-C. - Hosseini, S.A.: Silicon regulates source to sink metabolic homeostasis and promotes growth of rice plants under sulfur deficiency. In: *International Journal of Molecular Sciences*, Vol. 21, No.10, 2020, Art. No. 3677 -- SCOPUS
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- [o1] 2020 ~ Rashad, R.T.: Silicon (Si) use efficiency in sandy soil amended by Si-loaded hydrogel. In: *Communications in Soil Science and Plant Analysis*, Vol. 51, No. 6, 2020, s. 746-756 -- SCOPUS
- [o1] 2020 ~ Li, Z. - Guo, F. - Cornelis, J.-T. - Song, Z. - Wang, X. - Delvaux, B.: Combined Silicon-Phosphorus Fertilization Affects the Biomass and Phytolith Stock of Rice Plants. In: *Frontiers in Plant Science*, Vol. 11, 2020, Art. No. 67 --SCOPUS
- [o1] 2020 ~ Carter, A.H. - Rath, B.B. - Gorzkowski, E.P. - Qadri, S.B.: Evaluation of silica content in winter wheat chaff. In: *Agricultural and Environmental Letters*, Vol. 5, No. 1, 2020, Art. No. e20025 -- SCOPUS
- [o1] 2020 ~ Encina Oliva, K.M. - do Nascimento, C.W.A. - Vieira da Silva, F.B. - Muniz Araujo, P.R. - Almeida de Oliveira, E.C. - Feitosa, M.M. - Vieira, Lima L.H.: Biomass and concentration of nutrients and

silicon in sugarcane grown on soilfertilized with diatomite. In: *Revista Brasileira de Ciencias Agrarias*, Vol. 15, No. 4, 2020, Art. No. e8755 -- SCOPUS

[o1] 2020 ~ Kucerova, D. - Labancova, E. - Vivodova, Z. - Kollarova, K.: The modulation of ion homeostasis by silicon in cadmium treated poplar callus cells. In: *Environmental Science and Pollution Research*, Vol. 27, No. 3, 2020, s. 2857-2867-- SCOPUS

[o1] 2020 ~ Mabagala, F.S. - Geng, Y.H. - Cao, G.J. - Wang, L.C. - Wang, M. - Zhang, M.L.: Effect of silicon on crop yield, and nitrogen use efficiency applied under straw return treatments. In: *Applied Ecology and Environmental Research*, Vol.18, No. 4, 2020, s. 5577-5590 -- SCOPUS

[o1] 2020 ~ Teixeira, G.C.M. - Rocha, A.M.S. - Oliveira, K.S. - Dos Santos Sarah, M.M. - De Oliveira Filho, A.S.B. - De Mello Prado, R. - Palaretti, L.F.: Silicon to mitigate stress due to manganese deficiency and water deficit in pre-sprouted sugarcane seedlings (Bibliographic Review). In: *Cientifica*, Vol. 48, No. 2, 2020, s. 170-187 -- SCOPUS

[o1] 2020 ~ Sattary, M. - Amini, J. - Hallaj, R.: Antifungal activity of the lemongrass and clove oil encapsulated in mesoporous silica nanoparticles against wheat's take-all disease. In: *Pesticide Biochemistry and Physiology*, Vol. -, 2020, Art. No. 104696 -- SCOPUS

[o1] 2020 ~ Macik, M. - Gryta, A. - Frac, M.: Biofertilizers in agriculture: An overview on concepts, strategies and effects on soil microorganisms. In: *Advances in Agronomy*, Vol. 162. New York : Academic Press Inc., 2020, s. 31-87 -- SCOPUS

[n1] 2021 zz ~ Ahire, M.L. - Mundada, P.S. - Nikam, T.D. - Bapat, V.A. - Penna, S.: Multifaceted roles of silicon in mitigating environmental stresses in plants. In: *Plant Physiology and Biochemistry*, Vol. 169, 2021, s. 291-310 -- SCOPUS

[n1] 2021 zz ~ Wang, X. - Li, X. - Dou, F. - Sun, W. - Chen, K. - Wen, Y. - Ma, X.: Elucidating the impact of three metallic nanoagrichemicals and their bulk and ionic counterparts on the chemical properties of bulk and rhizosphere soils in rice paddies. In: *Environmental Pollution*, Vol. 290, 2021, Art. No. 118005 -- SCOPUS

[n1] 2021 zz ~ Oliveira, K.S. - de Mello Prado, R. - Checchio, M.V. - Gratao, P.L.: Silicon via nutrient solution modulates deficient and sufficient manganese sugar and energy cane antioxidant systems. In: *Scientific Reports*, Vol. 11, No. 1, 2021, Art. No. 16900 -- SCOPUS

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[n1] 2021 zz ~ Chow, N.A. - Kangiser, D. - Gade, L. - McCotter, O.Z. - Hurst, S. - Salamone, A. - Wohrle, R. - Clifford, W. - Kim, S. - Salah, Z. - Oltean, H.N. - Plumlee, G.S. - Litvintseva, A.P.: Factors Influencing Distribution of *Coccidioides immitis* in Soil, Washington State, 2016. In: *mSphere*, Vol. 6, No. 6, 2021, Art. No. e00598 -- SCOPUS

[n1] 2021 zz ~ Golubkina, N. - Moldovan, A. - Fedotov, M. - Kekina, H. - Kharchenko, V. - Folmanis, G. - Alpatov, A. - Caruso, G.: Iodine and selenium biofortification of chervil plants treated with silicon nanoparticles. In: *Plants*, Vol. 10, No. 11, 2021, Art. No. 2528 -- SCOPUS

[n1] 2021 zz ~ Wei, T. - Li, X. - Yashir, N. - Li, H. - Sun, Y. - Hua, L. - Ren, X. - Guo, J.: Effect of exogenous silicon and methyl jasmonate on the alleviation of cadmium-induced phytotoxicity in tomato plants. In: *Environmental Science and Pollution Research*, Vol. 28, No. 37, 2021, s. 51854-51864 -- SCOPUS

[n1] 2021 zz ~ Karimian, N. - Nazari, F. - Samadi, S.: Morphological and Biochemical Properties, Leaf Nutrient Content, and Vase Life of Tuberose (*Polianthes tuberosa* L.) Affected by Root or Foliar Applications of Silicon (Si) and Silicon Nanoparticles (SiNPs). In: *Journal of Plant Growth Regulation*, Vol. 40, No. 5, 2021, s. 2221-2235 -- SCOPUS

[n1] 2021 zz ~ Faria, J.M.S. - Teixeira, D.M. - Pinto, A.P. - Brito, I. - Barrulas, P. - Carvalho, M.: Aluminium, iron and silicon subcellular redistribution in wheat induced by manganese toxicity. In: *Applied Sciences*, Vol. 11, No. 18, 2021, Art. No. 8745 -- SCOPUS

[n1] 2021 zz ~ Bhardwaj, S. - Kapoor, D.: Fascinating regulatory mechanism of silicon for alleviating drought stress in plants. In: *Plant Physiology and Biochemistry*, Vol. 166, 2021, s. 1044-1053 -- SCOPUS

[n1] 2021 zz ~ Oliva, K.M.E. - da Silva, F.B.V. - Araujo, P.R.M. - de Oliveira, E.C.A. - do Nascimento C.W.A.: Amorphous Silica-Based Fertilizer Increases Stalks and Sugar Yield and Resistance to Stalk Borer in Sugarcane Grown Under Field Conditions. In: *Journal of Soil Science and Plant Nutrition*, Vol. 21, No. 3, 2021, s. 2518-2529 -- SCOPUS

[n1] 2021 zz ~ Karagiannis, E. - Michailidis, M. - Skodra, C. - Molassiotis, A. - Tanou, G.: Silicon influenced ripening metabolism and improved fruit quality traits in apples. In: *Plant Physiology and Biochemistry*, Vol. 166, 2021, s. 270-277-- SCOPUS



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- [n1] 2021 zz ~ Deng, Q. - Yu, T. - Zeng, Z. - Ashraf, U. - Shi, Q. - Huang, S. - Lian, T. - Chen, J. - Muzaffar, W. - Shen, W.: Silicon Application Modulates the Growth, Rhizosphere Soil Characteristics, and Bacterial Community Structure in Sugarcane. In: *Frontiers in Plant Science*, Vol. 12, 2021, Art. No. 710139 -- SCOPUS
- [n1] 2021 zz ~ Widjajanto, D.W. - Sumarsono - Purbajanti, E.D.: Effect of Silicate Fertilizer on the Growth and Yield of Two Local Indonesian Varieties of Rice (*Oryza sativa* L.). In: *Indian Journal of Agricultural Research*, Vol. 55, No. 4, 2021, s. 463-467 -- SCOPUS
- [n1] 2021 zz ~ Rai-Kalal, P. - Tomar, R.S. - Jajoo, A.: Seed nanopriming by silicon oxide improves drought stress alleviation potential in wheat plants. In: *Functional Plant Biology*, Vol. 48, No. 9, 2021, s. 905-915 -- SCOPUS
- [n1] 2021 zz ~ Etesami, H. - Jeong, B.R. - Glick, B.R.: Contribution of Arbuscular Mycorrhizal Fungi, Phosphate-Solubilizing Bacteria, and Silicon to P Uptake by Plant. In: *Frontiers in Plant Science*, Vol. 12, 2021, Art. No. 699618 -- SCOPUS
- [n1] 2021 zz ~ Pavlovic, J. - Kostic, L. - Bosnic, P. - Kirkby, E.A. - Nikolic, M.: Interactions of Silicon With Essential and Beneficial Elements in Plants. In: *Frontiers in Plant Science*, Vol. 12, 2021, Art. No. 697592 -- SCOPUS
- [n1] 2021 zz ~ Mukarram, M. - Khan, M.M.A. - Corpas, F.J.: Silicon nanoparticles elicit an increase in lemongrass (*Cymbopogon flexuosus* (Steud.) Wats) agronomic parameters with a higher essential oil yield. In: *Journal of Hazardous Materials*, Vol. 412, 2021, Art. No. 125254 -- SCOPUS
- [n1] 2021 zz ~ Frasetya, B. - Subandi, M. - Sofiani, I.H.: The effect of silica source concentration to improve growth of *Lactuca sativa* L. On floating hydroponic system. In: *IOP Conference Series: Earth and Environmental Science*, Vol. 782, No. 4, 2021, Art. No. 042054 -- SCOPUS
- [n1] 2021 zz ~ Tripathi, D.K. - Rai, P. - Guerriero, G. - Sharma, S. - Corpas, F.J. - Singh, V.P.: Silicon induces adventitious root formation in rice under arsenate stress with involvement of nitric oxide and indole-3-acetic acid. In: *Journal of Experimental Botany*, Vol. 72, No. 12, 2021, s. 4457-4471 -- SCOPUS
- [n1] 2021 zz ~ Attia, E.A. - Elhawat, N.: Combined foliar and soil application of silica nanoparticles enhances the growth, flowering period and flower characteristics of marigold (*Tagetes erecta* L.). In: *Scientia Horticulturae*, Vol. 282, 2021, Art. No. 110015 -- SCOPUS
- [n1] 2021 zz ~ Yap, P.S.X. - Yusoff, K. - Lim, S.-H.E. - Chong, C.-M. - Lai, K.-S.: Membrane disruption properties of essential oils-a double-edged sword?. In: *Processes*, Vol. 9, No. 4, 2021, Art. No. 595 -- SCOPUS
- [n1] 2021 zz ~ Al-Ghamdi, A.A.M. - Ashram, A.M.: Effect of silicon application on soil physical and chemical properties under drought stress. In: *Journal of Environmental Biology*, Vol. 42, No. 2, 2021, s. 280-284 -- SCOPUS
- [n1] 2021 zz ~ Mitter, E.K. - Tosi, M. - Obregon, D. - Dunfield, K.E. - Germida, J.J.: Rethinking Crop Nutrition in Times of Modern Microbiology: Innovative Biofertilizer Technologies. In: *Frontiers in Sustainable Food Systems*, Vol. 5, 2021, Art. No. 606815 -- SCOPUS
- [n1] 2021 zz ~ Mbissik, A. - Elghali, A. - Ouabid, M. - Raji, O. - Bodinier, J.-L. - Messbahi, H.E.: Alkali-hydrothermal treatment of K-rich igneous rocks for their direct use as potassic fertilizers. In: *Minerals*, Vol. 11, No. 2, 2021, Art.No. 140 -- SCOPUS
- [n1] 2021 zz ~ Kumaraswamy, R.V. - Saharan, V. - Kumari, S. - Chandra Choudhary, R. - Pal, A. - Sharma, S.S. - Rakshit, S. - Raliya, R. - Biswas, P.: Chitosan-silicon nanofertilizer to enhance plant growth and yield in maize (*Zea mays* L.). In: *Plant Physiology and Biochemistry*, Vol. 159, 2021, s. 53-66 -- SCOPUS
- [n1] 2021 zz ~ Hussain, S. - Mumtaz, M. - Manzoor, S. - Shuxian, L. - Ahmed, I. - Skalicky, M. - Brestic, M. - Rastogi, A. - Ulhassan, Z. - Shafiq, I. - Allakhverdiev, S.I. - Khurshid, H. - Yang, W. - Liu, W.: Foliar application of silicon improves growth of soybean by enhancing carbon metabolism under shading conditions. In: *Plant Physiology and Biochemistry*, Vol. 159, 2021, s. 43-52 -- SCOPUS
- [n1] 2021 zz ~ Tonello, M.S. - Korchagin, J. - Bortoluzzi, E.C.: Environmental agate mining impacts and potential use of agate residue in rangeland. In: *Journal of Cleaner Production*, Vol. 280, 2021, Art. No. 124263 -- SCOPUS
- [n1] 2021 zz ~ Hossain, A. - Islam, T.: Silicon and selenium transporters in plants under abiotic stresses. In: *Metal and Nutrient Transporters in Abiotic Stress*. Amsterdam : Elsevier, 2021, S. 87-116 -- SCOPUS
- [n1] 2021 zz ~ Nascimento, C.W.A.D. - Silva, F.B.V.D. - Araujo, P.R.M. - Araujo, J.D.C.T.D. - Lins, S.A.D.S.: Efficiency and recovery index of silicon of a diatomaceous Earth-based fertilizer in two soil types

grown with sugarcane and maize. In: Journal of Plant Nutrition, Vol. 44, No. 16, 2021, s. 2347-2358 -- SCOPUS

[n1] 2021 zz ~ Debski, H. - Wiczkowski, W. - Szawara-Nowak, D. - Horbowicz, M.: Elicitation with sodium silicate and iron chelate affects the contents of phenolic compounds and minerals in buckwheat sprouts. In: Polish Journal of Food and Nutrition Sciences, Vol. 71, No. 1, 2021, s. 21-28 -- SCOPUS

[n1] 2021 zz ~ Masturah Musa, S.F. - Baharulrazi, N. - Che Man, S.H. - Suhaini, A.M. - Wan Ahmad Sofian, W.S.Q. - Yasin, N.A. - Yunus, N.A.: The effect of soilless media and foliar application on the growth and yield of solanum lycopersicum. In: Chemical Engineering Transactions, Vol. 83, 2021, s. 325-330 -- SCOPUS

[n1] 2021 zz ~ Ali, M. - Afzal, S. - Parveen, A. - Kamran, M. - Javed, M.R. - Abbasi, G.H. - Malik, Z. - Riaz, M. - Ahmad, S. - Chattha, M.S. - Ali, M. - Ali, Q. - Uddin, M.Z. - Rizwan, M. - Ali, S.: Silicon mediated improvement in the growth and ion homeostasis by decreasing Na<sup>+</sup> uptake in maize (*Zea mays* L.) cultivars exposed to salinity stress. In: Plant Physiology and Biochemistry, Vol. 158, 2021, s. 208-218 -- SCOPUS

### AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách

AEC01 Lux, Alexander (aut) [UKOPRBFR] (40%) - Vaculík, Marek (aut) [UKOPRBFR] (30%) - Kováč, Ján (aut) [UKOPRBFR] (30%): Improved Methods for Clearing and Staining of Plant Samples

Lit.: 18 záz., 4 obr.

In: Plant Microtechniques and Protocols. - Cham : Springer, 2015. - S. 167-178. - ISBN 978-3-319-19943-6

*Ohlasy (4):*

[o1] 2019 ~ Kwiatkowska, M. - Kadluczka, D. - Wedzony, M. - Dedicova, B. - Grzebelus, E.: Plant Methods, Vol. 15, No. 1, 2019, Art. No. 71 -- SCOPUS

[o1] 2020 ~ Noori, A. - Ngo, A. - Gutierrez, P. - Theberge, S. - White, J.C.: Silver nanoparticle detection and accumulation in tomato (*Lycopersicon esculentum*). In: Journal of Nanoparticle Research, Vol. 22, No. 6, 2020, Art. No. 131 -- SCOPUS

[n1] 2020 zz ~ Kitin, P. - Nakaba, S. - Hunt, C.G. - Lim, S. - Funada, R.: Direct fluorescence imaging of lignocellulosic and suberized cell walls in roots and stems. In: AoB PLANTS, Vol. 12, No. 4, 2020, art. no. plaa032 -- SCOPUS

[n1] 2021 zz ~ Nakhforoosh, A. - Nagel, K.A. - Fiorani, F. - Bodner, G.: Deep soil exploration vs. topsoil exploitation: distinctive rooting strategies between wheat landraces and wild relatives. In: Plant and Soil, Vol. 459, No. 1-2, 2021, s. 397-421 -- SCOPUS

AEC02 Vaculík, Marek (aut) [UKOPRBFR] (80% [1,936 AH]) - Vaculíková, Miroslava (aut) [UKOPRBBO] (20% [0,484 AH]): Role of Silicon under Heavy Metal and Toxic Element Stress : An Emphasis on Root Biology

Lit.: 132 záz.

In: Silicon in Plants: Advances and Future Prospect. - Boca Raton : CRC Press, 2017. - S. 175-194 [2,42 AH]. - ISBN 978-1-4987-3949-8

### I3 Iný výstup publikačnej činnosti z časopisu

I301 Tripathi, Durgesh Kumar (aut) [KAUT] (25%) - Singh, Vijay Pratap (aut) (15%) - Ahmad, Parvaiz (aut) (15%) - Guerriero, Gea (aut) (15%) - Vaculík, Marek (aut) [UKOPRBFR] (15%) - Corpas, Francisco J (aut) (15%): Metalloids in plant biology: New avenues in their research

In: Journal of Hazardous Materials. - č. 422 (2022), s. [1-2], art. no. 26738. - ISSN (print) 0304-3894

iný (úvodník, editoriál)

*Registrované v:*

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*Indikátor časopisu:*

IF (JCR) 2022=13.6

Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2022=2

*Kvartil Q:*

wos-jcr -- Q1 [Environmental sciences] -- 2022

wos-jcr -- Q1 [Engineering, environmental] -- 2022

## V2 Vedecký výstup publikačnej činnosti ako časť editovanej knihy alebo zborníka

- V201 Lukačová, Zuzana (aut) [UKOPRBFR] (20% [0,48 AH]) - Bokor, Boris (aut) [UKOVP] (20% [0,48 AH]) - Vaculík, Marek (aut) [UKOPRBFR] (20% [0,48 AH]) - Kohanová, Jana (aut) [UKOPRBFR] (20% [0,48 AH]) - Lux, Alexander (aut) [UKOPRBFR] (20% [0,48 AH]): Root Silicification and Plant Resistance to Stress [elektronický dokument]  
Lit.: 141 záz. n.  
In: Benefits of Silicon in the Nutrition of Plants [elektronický dokument]. - Cham : Springer Nature, 2023. - S. 27-56 [2,4 AH] [print]. - ISBN 978-3-031-26672-0 kapitola

## V3 Vedecký výstup publikačnej činnosti z časopisu

- V301 Fiala, Roderik (aut) (40%) - Fialová, Ivana (aut) (30%) - Vaculík, Marek (aut) [UKOPRBFR] (10%) - Luxová, Miroslava (aut) (20%): Effect of silicon on the young maize plants exposed to nickel stress  
Lit.: 63 záz. n.  
In: Plant Physiology and Biochemistry. - č. 166 (2021), s. 645-656. - ISSN (print) 0981-9428  
článok  
*Registrované v:*  
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WOS CC Web of Science Core Collection  
SCO SCOPUS  
SCIE Science Citation Index Expanded  
*Indikátor časopisu:*  
IF (JCR) 2021=5.437  
*Kvartil Q:*  
wos-jcr -- Q1 [Plant sciences] -- 2021
- V302 Chirappurathu, Sukumaran Nair Vidya (aut) [UKOPRBBO] (60%) - Shetty, Rajpal (aut) [UKOPRBFR] (20%) - Vaculíková, Miroslava (aut) [UKOPRBFR] (10%) - Vaculík, Marek (aut) [UKOPRBFR] (10%): Antimony toxicity in soils and plants, and mechanisms of its alleviation  
Lit.: 189 záz. n.  
In: Environmental and Experimental Botany. - č. 202 (2022), s. [1-16], art. no. 104996. - ISSN (print) 0098-8472  
článok  
*Registrované v:*  
SCO SCOPUS  
WOS CC Web of Science Core Collection čakateľ  
CCC Current Content Connect čakateľ  
*Indikátor časopisu:*  
IF (JCR) 2022=5.7  
*Kvartil Q:*  
wos-jcr -- Q1 [Plant sciences] -- 2022  
wos-jcr -- Q2 [Environmental sciences] -- 2022
- V303 Singh, Vijay Pratap (aut) (20%) - Tripathi, Durgesh Kumar (aut) (20%) - Brestič, Marián (aut) (20%) - Deshmukh, Rupesh (aut) (20%) - Vaculík, Marek (aut) [UKOPRBFR] (20%): Priming-mediated abiotic stress management in plants: Recent avenues and future directions [elektronický dokument]  
Lit.: 15 záz. n.  
In: Plant stress [elektronický dokument]. - Roč. 5 (2022), s. [1-2], art. no 100097 [online]. - ISSN (print) 2667-064X  
článok  
*Registrované v:*  
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SCO SCOPUS  
ESCI Emerging Sources Citation Index

*Indikátor časopisu:*

IF (JCR) 2022=5.0

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2022

V304 Domka, Agnieszka (aut) [KAUT] (14%) - Jedrzejczyk, Roman (aut) (8%) - Ważny, Rafał (aut) (8%) - Gustab, Maciej (aut) (8%) - Kowalski, Michał (aut) (8%) - Nosek, Michał (aut) (8%) - Bizan, Jakub (aut) (8%) - Puschenreiter, Markus (aut) (8%) - Vaculík, Marek (aut) [UKOPRBFR] (8%) - Kováč, Ján (aut) [UKOPRBFR] (8%) - Rozpadek, Piotr (aut) (14%): Endophytic yeast protect plants against metal toxicity by inhibiting plant metal uptake through an ethylene-dependent mechanism

Lit.: 88 záz.

In: Plant Cell & Environment. - Roč. 46, č. 1 (2023), s. 268-287. - ISSN (print) 0140-7791

článok

*Registrované v:*

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*Indikátor časopisu:*

IF (JCR) 2022=7.3

*Kvartil Q:*

wos-jcr -- Q1 [Plant sciences] -- 2022

V305 Morteza Zahedi, Seyed (aut) (20%) - Sadat Hosseini, Marjan (aut) (20%) - Fahadi Hoveizeh, Narjes (aut) (20%) - Kadkhodaei, Saeid (aut) (20%) - Vaculík, Marek (aut) [UKOPRBFR] (20%): 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

Lit.: 113 záz.

In: Scientia Horticulturae. - č. 309 (2023), s. [1-13], art. no. 111686. - ISSN (print) 0304-4238

článok

*Registrované v:*

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SCIE Science Citation Index Expanded

*Indikátor časopisu:*

IF (JCR) 2022=4.3

*Kvartil Q:*

wos-jcr -- Q1 [Horticulture] -- 2022

V306 Morteza Zahedi, Seyed (aut) (20%) - Sadat Hosseini, Marjan (aut) (20%) - Fahadi Hoveizeh, Narjes (aut) (20%) - Kadkhodaei, Saeid (aut) (20%) - Vaculík, Marek (aut) [KAUT] [UKOPRBFR] (20%): Physiological and Biochemical Responses of Commercial Strawberry Cultivars under Optimal and Drought Stress Conditions [elektronický dokument]

Lit.: 54 záz.

In: Plants-Basel [elektronický dokument]. - Roč. 12, č. 3 (2023), s. [1-13], art. no. 496 [online]. - ISSN (online) 2223-7747

článok

*Registrované v:*

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WOS CC Web of Science Core Collection

SCIE Science Citation Index Expanded

*Indikátor časopisu:*

IF (JCR) 2022=4.5

Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2023=1

*Kvartil Q:*  
wos-jcr -- Q1 [Plant sciences] -- 2022

V307 Vidya, Chirappurathu Sukumaran Nair (aut) [KAUT] (30%) - Shetty, Rajpal (aut) (10%) - Bokor, Boris (aut) [UKOVP] (10%) - Fialová, Ivana (aut) (10%) - Luxová, Miroslava (aut) (10%) - Jašková, Katarína (aut) (10%) - Vaculík, Marek (aut) [UKOPRBFR] (20%): Do Antimonite and Silicon Share the Same Root Uptake Pathway by Lsi1 in Sorghum bicolor L. Moench? [elektronický dokument]  
Lit.: 51 záz. n.  
In: Plants-Basel [elektronický dokument]. - Roč. 12, č. 12 (2023), s. [1-12], art. no. 2368 [online]. - ISSN (online) 2223-7747  
článok  
*Registrované v:*  
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WOS CC Web of Science Core Collection  
SCIE Science Citation Index Expanded  
SCO SCOPUS čakateľ  
*Indikátor časopisu:*  
IF (JCR) 2022=4.5  
Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2023=1  
*Kvartil Q:*  
wos-jcr -- Q1 [Plant sciences] -- 2022

V308 Šírová, Karina (aut) (50%) - Vaculík, Marek (aut) [KAUT] [UKOPRBFR] (50%): Toxic effects of cadmium on growth of Aloe ferox Mill.  
Lit.: 39 záz. n.  
In: South African Journal of Botany. - Roč. 147 (2023), s. 1181-1187 – ISSN (print) 0254-6299, ISSN (online) 1727-9321  
článok  
*Registrované v:*  
CCC Current Content Connect  
WOS CC Web of Science Core Collection  
SCIE Science Citation Index Expanded  
SCO SCOPUS čakateľ  
*Indikátor časopisu:*  
IF (JCR) 2022=3.1  
Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2023=1  
*Kvartil Q:*  
wos-jcr -- Q2 [Plant sciences] -- 2022

**Štatistika kategórií (Záznamov spolu: 144):**

ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách (2)  
ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách (1)  
ADC Vedecké práce v zahraničných karentovaných časopisoch (38)  
ADD Vedecké práce v domácich karentovaných časopisoch (2)  
ADF Vedecké práce v ostatných domácich časopisoch (1)  
ADM Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (1)  
AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách (2)  
AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách (1)  
AFC Publikované príspevky na zahraničných vedeckých konferenciách (9)  
AFD Publikované príspevky na domácich vedeckých konferenciách (28)  
AFG Abstrakty príspevkov zo zahraničných vedeckých konferencií (22)  
AFH Abstrakty príspevkov z domácich vedeckých konferencií (8)  
AFL Postery z domácich konferencií (1)  
AGI Správy o vyriešených vedeckovýskumných úlohách (1)

BDF Odborné práce v ostatných domácich časopisoch (1)  
BFA Abstrakty odborných prác zo zahraničných podujatí (konferencie, ...) (12)  
V2 Vedecký výstup publikačnej činnosti ako časť editovanej knihy alebo zborníka (3)  
V3 Vedecký výstup publikačnej činnosti z časopisu (8)  
O2 Odborný výstup publikačnej činnosti ako časť knižnej publikácie alebo zborníka (3)  
I3 Iný výstup publikačnej činnosti z časopisu (1)

**Štatistika ohlasov (1714):**

[o1] Citácie v zahraničných publikáciách registrované v citačných indexoch (1278)  
[o2] Citácie v domácich publikáciách registrované v citačných indexoch (6)  
[o3] Citácie v zahraničných publikáciách neregistrované v citačných indexoch (14)  
[o4] Citácie v domácich publikáciách neregistrované v citačných indexoch (23)  
[n1] Citácia v publikácii registrovaná v citačných indexoch (392)  
[n2] Citácia v publikácii vrátane citácie v publikácii registrovanej v iných databázach okrem citačných indexov (1)

Spracovala Butková, 5.9.2023