

LISTA DE LUCRĂRI

CS Dr. Mihalache Gabriela

Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact

1. Stoleru V., Jacobsen S.-E., Vitanescu M., Jitareanu G., Butnariu M., Munteanu N., Stan T., Teliban G. C., Cojocaru A., **Mihalache G.** (2022) Nutritional and antinutritional compounds in leaves of quinoa, *Food Bioscience* 45, 101494. (FI – 4.240, AIS – 0.667) <https://www.sciencedirect.com/science/article/pii/S2212429221006192>
2. Gheorghitoaie M.V., Bodale I., Achitei V., Teliban G.C., Cojocaru A., Caruso G., **Mihalache G.**, Stoleru V. (2022) Potential of continuous electric current on biometrical, physiological and quality characteristics of organic tomato. *Applied Sciences*, 12 (9), 4211. (FI – 2.838, AIS – 0.409) <https://www.mdpi.com/2076-3417/12/9/4211>
3. Tiron V., Ciolan M.A., Bulai G., **Mihalache G.**, Lipsa F.D., Jijie R. (2022) Efficient removal of methylene blue and ciprofloxacin from aqueous solution using flower-like, nanostructured ZnO coating under UV irradiation. *Nanomaterials*, 12(13), 2193. (FI – 5.719, AIS – 0.737) <https://www.mdpi.com/2079-4991/12/13/2193>
4. Teliban G.C., Stoleru V., Birescu G., **Mihalache G.**, Burducea M., Munteanu N., Țopa D., Gheorghe M., Rădeanu G., Popa L.D., Vlăduț N.V. (2022) The response of runner bean crop to irrigation and fertilization. *Romanian Agricultural Research*, 39. (FI – 0.633)
5. Jijie R.[‡], **Mihalache G.**[‡], Balmus I.-M., Strungaru S.-A., Baltag E.S., Ciobica A., Nicoara M., Faggio C. (2021) Zebrafish as a screening model to study the single and joint effects of antibiotics. *Pharmaceuticals* 14, 578. († Contribuții egale) (FI – 5.863, AIS – 1.110) <https://www.mdpi.com/1424-8247/14/6/578>
6. Bodale I., **Mihalache G.**, Achitei V., Teliban G.C., Cazacu A., Stoleru V. (2021), Evaluation of the nutrients uptake by tomato plants in different phenological stages using an electrical conductivity technique, *Agriculture*, 11 (2), 180. (FI – 2.925, AIS – 0.468) <https://www.mdpi.com/2077-0472/11/4/292>
7. Teliban G.C., Burducea M., Zheljazkov V.D., Dincheva I., Badjakov I., Munteanu N., **Mihalache G.**, Cojocaru A., Popa L.D., Stoleru V. (2021) The effect of myco-biocontrol based formulates on yield, physiology and secondary products of organically grown basil, *Agriculture*, 11 (2), 180. (FI – 2.925, AIS – 0.468) <https://www.mdpi.com/2077-0472/11/2/180>
8. Dogaru B.-I., Stoleru V., **Mihalache G.**, Yonsel S., Popescu M.-C. (2021) Gelatin reinforced with CNCs as nanocomposite matrix for *Trichoderma harzianum* KUEN 1585 spores in seed coatings. *Molecules* , 26, 5755. (FI – 4.412, AIS – 0.694) <https://www.mdpi.com/1420-3049/26/19/5755>
9. **Mihalache G.**, Peres C.I., Bodale I., Achitei V., Gheorghitoaie M.V., Teliban G.C., Cojocaru A., Butanariu M., Muraru V., Stoleru V. (2020) Tomato crop performances

- under chemical nutrients monitored by electric signal. *Agronomy* 10 (12): 1915. (IF – 3.417, AIS – 0.519) <https://www.mdpi.com/2073-4395/10/12/1915>
10. Stoleru V., Burlica R., **Mihalache G.**, Dirlau D., Padureanu S., Teliban G.C., Astanei A.D., Cojocaru A., Beniuga O., Patras A. (2020) Plant growth promotion effect of plasma activated water on *Lactuca sativa* L. cultivated in two different volumes of substrate. *Scientific Reports* 10 (1): 20920. (FI – 4.380, AIS – 1.285) <https://www.nature.com/articles/s41598-020-77355-w>
 11. Stoleru V., Inculet C.S., **Mihalache G.**, Cojocaru A., Teliban G.C., Caruso G. (2020) Yield and nutritional response of greenhouse grown tomato cultivars to sustainable fertilization and irrigation management, *Plants* 9 (8): 1053. (FI – 3.935, AIS - 0.759) <https://www.mdpi.com/2223-7747/9/8/1053>
 12. Inculet C.S., **Mihalache G.**, Sellitto V.M., Hlihor R.M., Stoleru V. (2019) The effects of a microorganisms-based commercial product on the morphological, biochemical and yield of tomato plants under two different water regimes. *Microorganisms* 7 (12): 706. (FI - 4.152) <https://www.mdpi.com/2076-2607/7/12/706>
 13. Stoleru V., Slabu C., Vitanescu M., Peres C., Cojocaru A., Covasa M., **Mihalache G.** (2019) Tolerance of three quinoa cultivars (*Chenopodium quinoa* Willd.) to salinity and alkalinity stress during germination stage. *Agronomy* 9 (6): 287. (FI – 2.603) <https://www.mdpi.com/2073-4395/9/6/287>
 14. **Mihalache G.**, Balaes T., Gostin I., Stefan M., Coutte F., Krier F. (2018) Lipopeptides produced by *Bacillus subtilis* as new biocontrol products against fusariosis in ornamental plants. *Environmental Science and Pollution Research* 25(30): 29784 – 29793. (FI – 2.914, AIS – 0.539) <https://link.springer.com/article/10.1007/s11356-017-9162-7>
 15. Babii C., **Mihalache G.**, Bahrin L.G., Neagu A.N., Gostin I., Mihai C.T., Sârbu L.G., Birsa L.M., Stefan M. (2018) A novel synthetic flavonoid with potent antibacterial properties: In vitro activity and proposed mode of action. *PloS ONE* 13(4): e0194898. (FI – 2.776, AIS - 0.978) <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0194898>
 16. **Mihalache G.**, Mihasan M., Zamfirache M.M., Stefan M., Raus L. (2018) Phosphate solubilizing bacteria from runner bean rhizosphere and their mechanism of action. *Romanian Biotechnological Letter* 23 (4), 13853. (FI – 0.590, AIS – 0.080) <https://www.e-repository.org/rbl/vol.23/iss.4/15.pdf>
 17. **Mihalache G.**, Zamfirache M.M., Hamburda S., Stoleru V., Munteanu N., Stefan M. (2016) Synergistic effect of *Pseudomonas lini* and *Bacillus pumilus* on runner bean growth enhancement. *Environmental Engineering and Management Journal* 15(8): 1823 – 1831. (FI – 1.096, AIS – 0.073) <https://eemj.eu/index.php/EEMJ/article/view/3014>
 18. **Mihalache G.**, Zamfirache M.M., Mihasan M., Ivanov I., Stefan M., Raus L. (2015) Phosphate-solubilizing bacteria associated with runner bean rhizosphere, *Archives of Biological Sciences* 67(3): 793 – 800. (FI – 0.367, AIS – 0.122) <http://www.doiserbia.nb.rs/img/doi/0354-4664/2015/0354-46641500038M.pdf>

Articole științifice publicate *in extenso* în reviste indexate BDI

1. Rosca M., Hlihor R.M., **Mihalache G.**, Stoleru V. (2021) Heavy metals contamination of fruits and vegetables in europe. *Lucrări Științifice Seria Horticultură USAMV Iași* 64 (1).
[https://www.uaiasi.ro/revista_horti/files/Nr1_2021/vol%2064_1_2021%20\(32\).pdf](https://www.uaiasi.ro/revista_horti/files/Nr1_2021/vol%2064_1_2021%20(32).pdf)
2. Pereș C.I., Cazacu A., Bodale I., **Mihalache G.**, Teliban G.C., Cojocaru A., Munteanu N., Iurea D., Stoleru V. (2019) Yield and physiological parameters of Siriana F1 under conventional and unconventional stimulants. *Lucrări Științifice Seria Horticultură USAMV Iași* 62 (2).
<https://repository.uaiasi.ro/xmlui/handle/20.500.12811/197>
3. Stoleru V., **Mihalache G.**, Peres C., Teliban G., Cojocaru A., Muraru V.M. (2019) Biochemical parameters of tomato under chemical fertilizers. *Lucrări Științifice Seria Horticultură USAMV Iași* 62 (1). http://www.uaiasi.ro/revista_horti-en/files/Nr1_2019/11.%20Stoleru%20V..pdf
4. **Mihalache G.**, Zamfirache M.M., Stefan M. (2015) Root associated bacteria—friends or enemies? A review, *Memoirs of the Scientific Sections of the Romanian Academy*, Tome XXXVIII, 27-54.
<https://doaj.org/article/6cb90064de044a21971f937c87fbcf38>
5. **Mihalache G.**, Munteanu N., Dunca S., Mihășan M., Ștefan M. (2012) Phosphate-solubilising rhizobacteria associated with *Phaseolus coccineus* L. rhizosphere. *Analele Științifice ale Universității „Alexandru Ioan Cuza”, Secțiunea Genetică și Biologie Moleculară*, TOM XIII, 65-69.
<https://web.s.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=22483276&AN=86069728&h=WXrfBy%2bo3IaguJ05JRLkgZ5UNSMmfa6jPCzuC3NIZ%2f%2bRkT0q3UcM%2b6Z5Q84rU8oGwUaRJDMpWidU3omsMKUaXQ%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNoProfile&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d22483276%26AN%3d86069728>

Teza de doctorat

Interrelații *Phaseolus coccineus* L. – microorganisme rizosferice: aplicații biotehnologice pentru agricultura organică. Facultatea de Biologie, Domeniul Biologie, Universitatea „Alexandru Ioan Cuza” din Iași, calificativ – Excelent (*Summa Cum Laude*). (Ordinul Ministrului Educației Naționale și Cercetării Științifice Nr. 5298 din 05.10.2017).

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1. **Mihalache G.**, Stefan M., Babii C., Motei D., Mihășan M. (2016) Steps towards *Arthrobacter nicotinovorans* based biotechnology for production of 6-hidroxy-nicotine, 16th International Multidisciplinary Scientific Geo Conferences SGEM2016, *Advances in Biotechnology*, 341-346.
<https://www.sgem.org/sgemlib/spip.php?article8807>

Cărți publicate la edituri naționale

1. Stoleru V. (coordonator), Munteanu N., Tenu I., Stan T., Muraru V., Teliban G.C., Cojocaru A., Bodale I., Cazacu A., **Mihalache G.**, Gheorghitoaie M. V., Achitei V., Peres C. I., *Perspective moderne în fertilizarea legumelor din spații protejate*, Editura „Ion Ionescu de la Brad”, 206 p., ISBN 978-973-147-365-9, Iași, 2020.

Capitole de carte publicate la edituri internaționale

1. Roșca, M., **Mihalache, G.**, Stoleru, V. (2023). Banned Pesticides with High Persistence: The Impact of Their Use in Agriculture and Their Removal by Microbial Biodegradation. In: Bhat, R.A., Butnariu, M., Dar, G.H., Hakeem, K.R. (eds) *Microbial Bioremediation*. Springer, Cham.

Abstracte publicate în volumele conferințelor internaționale cotate ISI Web of Science

1. **Mihalache G.**, Stoleru V., Zamfirache M. M., Ștefan M. (2015) The effects of PGPR on the growth and yield of runner bean plants. *Journal of Biotechnology* 208: S66. (FI = 2.667) <https://www.sciencedirect.com/journal/journal-of-biotechnology/vol/208/suppl/S?page=2>

Abstracte publicate în volumele conferințelor internaționale și naționale

1. Teliban G., Stoleru V., Băetu M., **Mihalache G.**, Patraș A. „Use of different agro-food wastes to fertilize the lettuce culture” *International Conference Intelligent Valorisation Of Agro-Industrial Wastes 7-8 October 2021* <http://www.repository.utm.md/handle/5014/17743>
2. Rodideal T., Boz I., **Mihalache G.**, Costica N. „The potential of ginger in respiratory diseases treatment” *International Congress of Geneticists and Breeders from the Republic of Moldova, Ediția 11, Chișinău, Moldova, 15-16 iunie 2021*

https://web.archive.org/web/20210629080115id_/https://ibn.idsi.md/sites/default/files/imag_file/p%20160.pdf

3. Rosca M., Hlihor R.M., **Mihalache G.**, Stoleru V. Heavy metals contamination of fruits and vegetables in Europe "Life Sciences Today for Tomorrow" International Congress, Iasi, Romania, 21-23 October 2021
4. **Mihalache G.**, Peres C., Bodale I., Achitei V., Gheorghitoaie M., Teliban G., Cojocaru A., Butnariu M., Muraru V., Stoleru V. Correlation of the electrical signal with the nutritional and antinutrient value of tomato plants under the differentiated influence of chemical fertilization. XIVth International Conference of Food Physicists, Iasi, Romania, November 05-06, 2020. <https://www.icfp.ro/wp-content/uploads/2020/11/E-BOOK-ICFP-2020.pdf>
5. Bodale I., **Mihalache G.**, Achitei V., Teliban G., Cazacu A., Stoleru V. Evaluation of the Ions Uptake by Tomato Plants in Different Phenological Stages. XIVth International Conference of Food Physicists, Iasi, Romania, November 05-06, 2020. <https://www.icfp.ro/wp-content/uploads/2020/11/E-BOOK-ICFP-2020.pdf>
6. Bodale I., Stoleru V., **Mihalache G.**, Cazacu A., Peres C., Teliban G., Achitei V., Cojocaru A., Filipov F. „Measurements of the electric signal in tomato plants generated by the most important nutritional elements.” United Nations/Romania International Conference on Space Solutions for Sustainable Agriculture and Precision Farming - Parallel session on The 9th International Symposium Soil Minimum Tillage Systems, Cluj, Romania, 6-10 May 2019.
7. Dogaru B.I., Popescu M.C., Popescu C.M., Golea C., Stoleru V., Mihalache G. Synthesis and Characterization of a Seed Coating Agent Using Gelatin Reinforced With Crystalline Nanocellulose and *Trichoderma harzianum*. XIVth International Conference of Food Physicists, Iasi, Romania, November 05-06, 2020. <https://www.icfp.ro/wp-content/uploads/2020/11/E-BOOK-ICFP-2020.pdf>
8. Bodale I., Stoleru V., **Mihalache G.**, Cazacu A., Peres C., Teliban G., Achitei V., Cojocaru A., Filipov F. „Measurements of the electric signal in tomato plants generated by the most important nutritional elements.” United Nations/Romania International Conference on Space Solutions for Sustainable Agriculture and Precision Farming - Parallel session on The 9th International Symposium Soil Minimum Tillage Systems, Cluj, Romania, 6-10 May 2019.

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14.12.2022

Semnătura,
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