

List of Publications

1. Yavuz, S. R., Suhartini, W., Bákonyi, N., Kovács, Z., Kaszás, L., Béni, Á., Balláné Kovács, A., Máthé, E., Elhawat, N. A., Fári, M., Veres, S., Alshaal, T. A. A. I., Domokos-Szabolcsy, É.: Biorefining green triticale grass as a flavonoid-rich source of protein for sustainable food systems.
Food Biosci. 79, 1-16, (article identifier: 108763), 2026. Journal metrics:
Q1 Biochemistry (2025)
Q1 Food Science (2025)
2. Zidan, N. E., Alshaal, T. A. A. I., Elhawat, N., Elhamalawy, O., Malhat, F., Eissa, F.: Endocrine-Disrupting Pesticides as Drivers of Human Disease: Mechanistic Toxicology and Life-Course Health Effects.
Int. J. Mol. Sci. 27 (15), 1-37, (article identifier: 6928), 2026. Journal metrics:
Q1 Catalysis (2025)
Q1 Computer Science Applications (2025)
D1 Inorganic Chemistry (2025)
Q1 Medicine (miscellaneous) (2025)
Q2 Molecular Biology (2025)
D1 Organic Chemistry (2025)
Q1 Physical and Theoretical Chemistry (2025)
D1 Spectroscopy (2025)
3. El-Sheref, G. F. H., Elhawat, N. A., Kenawy, A. G. M., Mohamed, G. A., Shabana, M. A., Alshaal, T. A. A. I.: Conventional and Rock-Based Potassium Fertilization Improves Fennel (Foeniculum vulgare Mill.) Performance Under Extended Irrigation Intervals.
Plants-Basel. 15 (4), 1-23, (article identifier: 573), 2026. Journal metrics:
Q1 Ecology (2025)
Q1 Ecology, Evolution, Behavior and Systematics (2025)
Q1 Plant Science (2025)
4. Alshaal, T. A. A. I., Domokos-Szabolcsy, É., Garab, G., Zsíros, O., Fári, M., Csajbók, J., Veres, S., Elhawat, N. A.: Copper-induced stress responses and phytoaccumulation capacity of three giant reed (Arundo donax L.) ecotypes.
Biomass Bioenerg. 205, 1-18, (article identifier: 108511), 2026.
Journal metrics:
D1 Agronomy and Crop Science (2025) Q1 Forestry (2025)
Q2 Renewable Energy, Sustainability and the Environment (2025)
Q1 Waste Management and Disposal (2025)

5. Atieh, R., Labidi, S., Hamda, T., Seresné Törös, G., Muthu, A., Alshaal, T. A. A. I., Béni, Á., Kiss, A.: Direct Terpene extraction from aromatic herbs: Comparative evaluation of ultrasound-assisted stir bar sorptive extraction and ultrasound-assisted extraction by HPLC-PDA with AGREE/AGREEprep greenness assessment. *J. Food Compos. Anal.* 155, 1-11, (article identifier: 109273), 2026. Journal metrics:
Q1 Food Science (2025)
6. Alshaal, T. A. A. I., Elhawati, N. A., Elmahdy, S., Khalifa, R. M., Hatab, S. H., Shabana, M. A., El, G. M. K.: Enhancing Water Productivity and Forage Yield of Egyptian Clover Through Subirrigation Controlled Drainage and Groundwater Utilisation. *Agron. J.* 16, 1-28, (article identifier: 937), 2026. Journal metrics:
Q2 Agronomy and Crop Science (2025)
7. Ranahansi, R. B. B. G., Koosha, M., Yang, X., Li, T., Fernando, G. S. N., Alshaal, T. A. A. I., Kiss, A.: From waste to wealth: innovations in the recovery of bioactive compounds from agro-food by-products. *Eur. Food Res. Technol.* 252, 1-25, (article identifier: 82), 2026. Journal metrics:
Q2 Biochemistry (2025)
Q2 Biotechnology (2025)
Q2 Chemistry (miscellaneous) (2025) Q2 Food Science (2025)
Q1 Industrial and Manufacturing Engineering (2025)
8. Suhartini, W., Yavuz, S. R., Kovács, Z., Kaszás, L., Kruppa, J., Fári, M., Veres, S., Elhawati, N. A., Alshaal, T. A. A. I., Domokos-Szabolcsy, É., Bákonyi, N.: Leaf Protein Concentrate of Rye (Secale cereale L.): A Green Innovation for Future Food and Feed. *IOP Conf. Ser.: Earth Environ. Sci.* 1584 (1), 1-13, (article identifier: 012054), 2026.
9. Alshaal, T. A. A. I., Alharbi, K., El, D. O. A., Hafez, E. M., Elhawati, N. A.: Leveraging PGPR-enriched biochar for enhanced canola growth in heavy metal-contaminated soil. *BMC Plant Biol.* 26 (1), 1-23, (article identifier: 1240), 2026. Journal metrics:
Q1 Plant Science (2025)
10. Veres, S., Elhawati, N. A., Rengel, Z., Alshaal, T. A. A. I.: Nitrogen Management in Crop-Soil-Environment Systems: Pathways Toward Sustainable and Climate-Resilient Agriculture. *Int. J. Mol. Sci.* 27 (5), 1-51, (article identifier: 2477), 2026. Journal metrics:
Q1 Catalysis (2025)
Q1 Computer Science Applications (2025)
D1 Inorganic Chemistry (2025)
Q1 Medicine (miscellaneous) (2025) Q2 Molecular Biology (2025)
D1 Organic Chemistry (2025)
Q1 Physical and Theoretical Chemistry (2025) D1 Spectroscopy (2025)
11. Kiss, A., Alshaal, T. A. A. I.: Rapid, Matrix-Dependent Changes in Polyphenols and Antioxidant Capacity of Methanol Plant Extracts During Short-Term Storage: Implications for Analytical Timing. *Int. J. Mol. Sci.* 27 (9), 1-23, (article identifier: 3723), 2026. Journal metrics:
Q1 Catalysis (2025)
Q1 Computer Science Applications (2025)
D1 Inorganic Chemistry (2025)
Q1 Medicine (miscellaneous) (2025) Q2 Molecular Biology (2025)
D1 Organic Chemistry (2025)
Q1 Physical and Theoretical Chemistry (2025) D1 Spectroscopy (2025)
12. Abd El-Aziz, M. A., Elhawati, N. A., Amer, A. K. H., Badawy, A. F. M., El, S. A. E., Khalifa, R. M., Shabana, M. A., Alshaal, T. A. A. I.: Revolutionizing sugar beet yield and quality in saline sandy soil through synergistic humic acid, glauconite, and boron foliar application. *Plant Soil.* 2, 1-32, 2026. Journal metrics:
D1 Plant Science (2025)
Q1 Soil Science (2025)
13. Kiss, A., Czeglédi, L., Alshaal, T. A. A. I., Török, E., Gulyás, G., Béni, Á., Atieh, R., Kiss, D., Nagy, P. T., Tóth, F. A., Szilágyi, A., Kokas, M., Bana, B., Brassó, D. L.: Selective and time-dependent transfer of herb-derived terpenes into cow milk without sensory impacts. *J. Dairy Sci.* 109 (9), 9066-9080, 2026.

Journal metrics: D1 Animal Science and Zoology (2025)
D1 Food Science (2025)
Q2 Genetics (2025)

14. Alshaal, T. A. A. I.: Special Issue: Exploring Abiotic Stress in Plants-Mechanisms, Adaptations, and Mitigation Strategies.
International Journal of Molecular Sciences 27 (5), 1-5, (article identifier: 2182), 2026. Journal metrics:
Q1 Catalysis (2025)
Q1 Computer Science Applications (2025)
D1 Inorganic Chemistry (2025)
Q1 Medicine (miscellaneous) (2025) Q2 Molecular Biology (2025)
D1 Organic Chemistry (2025)
Q1 Physical and Theoretical Chemistry (2025) D1 Spectroscopy (2025)
15. Veres, S., Alshaal, T. A. A. I., Elhawat, N. A.: Synergistic effects of nitrogen, sewage sludge, and poultry manure on integrative fertilization for wheat and sugar beet in marginally saline soil.
Front. Plant Sci. 17, 1-24, (article identifier: 1827328), 2026. Journal metrics:
D1 Plant Science (2025)
16. Hafez, E. M., Xu, W., Alharbi, K., Feng, Y., Badr, A. M., Ahmed, H. A., Alshaal, T. A. A. I., Omara, A. E. D., Nehela, Y.: Zeolite-AMF application enhances wheat productivity, cadmium immobilization, and saline soil health under Cd-contaminated wastewater irrigation.
Ecotox. Environ. Safe. 320, 1-15, (article identifier: 120395), 2026.
Journal metrics: Q1 Health, Toxicology and Mutagenesis (2025)
D1 Medicine (miscellaneous) (2025)
Q1 Pollution (2025)
D1 Public Health, Environmental and Occupational Health (2025)

17. Alshaal, T. A. A. I., Domokos-Szabolcsy, É., Fári, M., Veres, S., Kaszás, L., Kovács, Z., Eissa, F., Elhawwat, N. A.: Agricultural sustainability and the challenges of selenium nanoparticles (SeNPs): Their role in supporting the environmental economy.
Plant Stress. 16, 1-23, (article identifier: 100846), 2025.
 Journal metrics: D1 Ecology, Evolution, Behavior and Systematics
 D1 Plant Science
18. Bákonyi, N., Barna, D., Suhartini, W., Cziáky, Z., Makleit, P., Alshaal, T. A. A. I., Fári, M., Domokos-Szabolcsy, É.: Brown juice processed from alfalfa green biomass as a source of phytohormones and saponins.
Sci Rep. 15 (1), 1-7, (article identifier: 18653), 2025. Journal metrics:
 Q1 Multidisciplinary
19. Kovács, Z., Kerekes, N., Elhawwat, N. A., Fári, M., Prokisch, J., Alshaal, T. A. A. I., Domokos-Szabolcsy, É.: Carbon nanodots boost radish seedling growth: a seed priming study. In: Biotechnology at the University of Debrecen - 2025 International Symposium: Abstract Book ISBN: 9789634907374
20. Kiss, A., Papp, V. A., Pál, A., Prokisch, J., Mirani, S., Tóth, E. B., Alshaal, T. A. A. I.: Comparative study on antioxidant capacity of diverse food matrices: applicability, suitability and inter-correlation of multiple assays to assess polyphenol and antioxidant status.
Antioxidants. 14 (3), 1-21, (article identifier: 317), 2025. Journal metrics:
 Q1 Biochemistry
 Q1 Cell Biology
 Q1 Clinical Biochemistry
 D1 Food Science
 Q1 Molecular Biology
 Q1 Physiology
21. Hafez, E. M., Gao, Y., La, H., Alharbi, K., Hamada, M. M., Omara, A. E. D., Alshaal, T. A. A. I.: Enhancing Rice Productivity in Wastewater-Irrigated Saline Cd-Contaminated Soils Using Microbial-Nanoparticle Synergy.
Environ. Technol. Innov. 39, (article identifier: 104253), 2025. Journal metrics:
 Q1 Environmental Science (miscellaneous)
 D1 Plant Science
 D1 Soil Science
22. Elhawwat, N. A., Domokos-Szabolcsy, É., Veres, S., Fári, M., Alshaal, T. A. A. I.: Five-year impacts of biomass crop monoculture on soil enzyme activity, nitrogen pools, and other soil health indicators.
Biomass Bioenerg. 198, 1-13, (article identifier: 107856), 2025. Journal metrics:
 D1 Agronomy and Crop Science
 Q1 Forestry
 Q2 Renewable Energy, Sustainability and the Environment
 Q1 Waste Management and Disposal
23. Yavuz, S. R., Alshaal, T. A. A. I., Suhartini, W., Bákonyi, N., Kovács, Z., Kaszás, L., Veres, S., Fári, M., Elhawwat, N. A., Domokos-Szabolcsy, É.: Leaf protein concentrate as a nutrient-dense protein source from vetch and triticale mixture: A comparative analysis of fermentation techniques.
Food Chem. X. 31, 1-12, (article identifier: 103153), 2025. Journal metrics:
 D1 Analytical Chemistry
 D1 Food Science
24. Elhawwat, N. A., Domokos-Szabolcsy, É., Fári, M., Veres, S., Alshaal, T. A. A. I.: Nanofertilizers accelerated various osmolytes in plant system.
 In: Roles of Osmolytes in Changing Environment. Ed.: Azamal Husen, Academic Press Inc Elsevier Science, UK, 199-233, 2025, (Plant Biology, sustainability and climate change) ISBN: 9780443265495
25. Basal, O., Titan, P., Grobelsnik Mlakar, S., Alshaal, T. A. A. I., Elhawwat, N. A., Domokos-Szabolcsy, É., Veres, S.: Nano-nitrogen fertilizer effectiveness under hydroponic conditions.
 In: 40th Övár Scientific Day International Conference "Green Deal and agriculture: sustainability or competitive advantage" : Book of abstracts. Szerk.: Zoltán Molnár, Katalin Némethné Wurm, Albert Kázmér Faculty of Agricultural and Food Sciences, Széchenyi István University, Mosonmagyaróvár, 135, 2025.
26. Kiss, A., Elhawwat, N. A., Kovács, Z., Kaszás, L., Béni, Á., Domokos-Szabolcsy, É., Alshaal, T. A. A. I.: Optimizing mung bean and soybean hydrolysis for the generation of bioactive peptides of potential functional food applications. *Food Chemistry: X.* 1, 1-14, (article identifier: 102925), 2025.
 Journal metrics: D1 Analytical Chemistry
 D1 Food Science

27. Shabana, M. A., Elhawat, N. A., Abd El-Aziz, M. A., Elghany, S. H. A., Badawy, A. F. M., Alshaal, T. A. A. I.: Optimizing Soil Health and Maize Yield Under Salinity Stress with Compost and Sulfur Nanoparticles.
Plants-Basel. 14 (11), 1-26, (article identifier: 1661), 2025. Journal metrics:
Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
28. Kovács, Z., Kaszás, L., Koroknai, J., Fári, M., Veres, S., Elhawat, N. A., Alshaal, T. A. A. I., Domokos-Szabolcsy, É.: Optimizing selenium fertilization in Medicago sativa L.: Impacts on plant growth, Se uptake, and SeMet formation.
In: Plant Biology Europe 2025: Programme and Book of Abstracts, [s.n.], Budapest, 148, P-99, 2025. ISBN: 9786156833020
29. Alharbi, K., Gao, Y., Elatafi, E., Omara, A. E. D., Gadow, S. I., Osman, H. S., Alshaal, T. A. A. I., Rashwan, E., Hafez, E. M.: Phosphogypsum and biosynthesized selenium nanoparticles synergistically mitigate cadmium contamination and promote maize growth in wastewater-irrigated alkaline soil.
Plant Soil. 1, 1-25, 2025.
Journal metrics:
D1 Plant Science
Q1 Soil Science
30. Suhartini, W., Yavuz, S. R., Kovács, Z., Kaszás, L., Cziáky, Z., Kruppa, J., Fári, M., Veres, S., Elhawat, N. A., Alshaal, T. A. A. I., Domokos-Szabolcsy, É., Bákonyi, N.: Physicochemical Properties and Bioactive Compounds of Leaf Protein Concentrate from Green Pea and Triticale Mixture: A Comparative Study of Thermal and Non-thermal Processing Techniques.
Food Bioprocess Technol. 19 (1), 1-18, (article identifier: 36), 2025. Journal metrics: Q1
Food Science
Q1 Industrial and Manufacturing Engineering
Q1 Process Chemistry and Technology
Q1 Safety, Risk, Reliability and Quality
31. El, A. I., Elhawat, N. A., Shabana, M. A., Aboelsoud, H. M., Alshaal, T. A. A. I.: Physiological and Agronomic Responses of Maize (Zea mays L.) to Compost and PGPR Under Different Salinity Levels.
Plants-Basel. 14 (10), 1-27, (article identifier: 1539), 2025. Journal metrics:
Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
32. Veres, S., Basal, O., Titan, P., Grobelsnik Mlakar, S., Alshaal, T. A. A. I., Elhawat, N. A., Domokos-Szabolcsy, É.: Possibility of nitrogen supply as nano-nitrogen fertilizer in case of sunflower.
In: 40th Óvár Scientific Day International Conference "Green Deal and agriculture: sustainability or competitive advantage" : Book of abstracts. Szerk.: Zoltán Molnár, Katalin Némethné Wurm, Albert Kázmér Faculty of Agricultural and Food Sciences, Széchenyi István University, Mosonmagyaróvár, 131, 2025.
33. Alshaal, T. A. A. I., Elhawat, N. A., Veres, S.: Rhizosphere Engineering in Saline Soils: Role of PGPR and Organic Manures in Root? Soil Biochemical Interactions for Allium Crops.
Plants-Basel. 14 (19), 1-26, (article identifier: 3075), 2025. Journal metrics:
Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
34. Hafez, E. M., Alharbi, K., Gharib, H. S., Omara, A. E. D., Elatafi, E., Hamada, M. M., Rashwan, E., Alshaal, T. A. A. I.: Synergistic effect of Sugarcane bagasse and Zinc oxide nanoparticles on eco-remediation of Cadmium-contaminated saline soils in wheat cultivation.
Plants-Basel. 14 (1), 1-24, (article identifier: 85), 2025. Journal metrics:
Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
35. Hafez, E. M., Gao, Y., Alharbi, K., Chen, W., Elhawat, N. A., Alshaal, T. A. A. I., Osman, H. S.: Antioxidative and Metabolic Responses in Canola: Strategies with Wood Distillate and Sugarcane Bagasse Ash for Improved Growth under Abiotic Stress.
Plants-Basel. 13 (15), 1-27, (article identifier: 2152), 2024. Journal metrics:
Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science

36. Kaszás, L., Kovács, Z., Elhawat, N. A., Koroknai, J., Fári, M., Cziáky, Z., Veres, S., Alshaal, T. A. A. I., Domokos-Szabolcsy, É.: A parlagfű, az amarant és a mungóbab biofinomítási potenciáljának feltárása.
In: XX. Tiszántúli Agrártudományi Napok : Absztraktkötet / (szerk.) Veres Szilvia, Stündl László, Debreceni Egyetem Mezőgazdaság-, Élelmiszertudományi és Környezetgazdálkodási Kar, Debrecen, 47, 2024. ISBN: 9789634906568
37. Al-Sisi, M., Elhawat, N. A., Alshaal, T. A. A. I., Eissa, F.: Assessment of trace element occurrence in Nile Tilapia from the Rosetta branch of the River Nile, Egypt: Implications for human health risk via lifetime consumption.
Ecotox. Environ. Safe. 285, 1-10, (article identifier: 117079), 2024. Journal metrics:
Q1 Health, Toxicology and Mutagenesis
D1 Medicine (miscellaneous)
Q1 Pollution
D1 Public Health, Environmental and Occupational Health
38. Yavuz, S. R., Suhartini, W., Bákonyi, N., Béni, Á., Kovács, Z., Kaszás, L., Elhawat, N. A., Fári, M., Máthé, E., Alshaal, T. A. A. I., Domokos-Szabolcsy, É.: Beyond seeds and legumes: Green leaves as an alternative plant-based protein source.
In: NIZO Plant Protein Functionality / Project Lead. Marie-Claire Morley, NIZO, Apeldoorn, The Netherlands, 41, 2024.
39. Domokos-Szabolcsy, É., Alshaal, T. A. A. I., Elhawat, N. A., Kovács, Z., Kaszás, L., Béni, Á., Kiss, A.: Enhanced Oligopeptide and Free Tryptophan Release from Chickpea and Lentil Proteins: a Comparative Study of Enzymatic Modification with Bromelain, Ficin, and Papain.
Plants-Basel. 13 (21), 1-22, (article identifier: 3100), 2024. Journal metrics:
Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
40. El, A. I., Shabana, M. A., El, N. K. A., Alshaal, T. A. A. I.: Enhancing Wheat Growth on Calcareous, Sandy, and Clay Soils through Farmyard Manure and Spirulina Extract Applications for Sustainable Agriculture.
Int. J. Plant Soil Sci. 36 (8), 746-765, 2024.
41. Elsakrawy, T., Alshaal, T. A. A. I., Elakhdar, A., El, A. I.: From Waste to Worth: Using Fermented Orange Pomace in Sustainable Feed Production.
Plants-Basel. 13 (22), 1-13, (article identifier: 3191), 2024. Journal metrics:
Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
42. Kaszás, L., Kovács, Z., Koroknai, J., Elhawat, N. A., Fári, M., Cziáky, Z., Alshaal, T. A. A. I., Domokos-Szabolcsy, É.: Identification of key parameters and phytochemical composition of fiber and brown juice by-products from green biomass of Jerusalem artichoke (*Helianthus tuberosus* L.).
Biomass Bioenerg. 188, 1-11, (article identifier: 107332), 2024. Journal metrics:
Q1 Waste Management and Disposal
D1 Agronomy and Crop Science
D1 Forestry
Q2 Renewable Energy, Sustainability and the Environment
43. Elhawat, N. A., Ballán Kovács, A., Antal, G., Kurucz, E., Domokos-Szabolcsy, É., Fári, M., Alshaal, T. A. A. I.: Living mulch enhances soil enzyme activities, nitrogen pools and water retention in giant reed (*Arundo donax* L.) plantations.
Sci. Rep. 14 (1), 1-11, (article identifier: 1704), 2024. Journal metrics:
Q1 Multidisciplinary
44. Kovács, Z., Kaszás, L., Veres, S., Koroknai, J., Elhawat, N. A., Alshaal, T. A. A. I., Domokos-Szabolcsy, É., Fári, M.: Lucerna levélfehérje-koncentrátum és zöldlé felhasználása: lisztkeverékek táplálkozási, funkcionális és érzékszervi értékelése.
In: XX. Tiszántúli Agrártudományi Napok : Absztraktkötet / (szerk.) Veres Szilvia, Stündl László, Debreceni Egyetem Mezőgazdaság-, Élelmiszertudományi és Környezetgazdálkodási Kar, Debrecen, 52, 2024. ISBN: 9789634906568
45. Alharbi, K., Hafez, E. M., Elhawat, N. A., Omara, A. E. D., Rashwan, E., Mohamed, H. H., Alshaal, T. A. A. I., Gadow, S. I.: Revitalizing soybean plants in saline, Cd-polluted soil using Si-NPs, Biochar, and PGPR.
Plants-Basel. 13 (24), 1-32, (article identifier: 3550), 2024. Journal metrics:
Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
46. Bákonyi, N., Barna, D., Fári, M., Veres, S., Alshaal, T. A. A. I., Domokos-Szabolcsy, É., Makleit, P.: Role of alfalfa brown juice in plant growth and development.
In: Biostimulants in Plant Protection and Performance / Azamal Husen, Elsevier, London, 149-163, 2024. ISBN:

47. Alshaal, T. A. A. I., Alharbi, K., Naif, E., Rashwan, E., Omara, A. E. D., Hafez, E. M.: Strengthen sunflowers resilience to cadmium in saline-alkali soil by PGPR-augmented biochar. *Ecotoxicology and Environmental Safety* 280 (-(2024).), 1-16, (article identifier: 116555), 2024.
Journal metrics: Q1 Health, Toxicology and Mutagenesis
D1 Medicine (miscellaneous)
Q1 Pollution
D1 Public Health, Environmental and Occupational Health
48. El, A. I., Shabana, M. A., El, K. N. M. M., Elhawat, N. A., Alshaal, T. A. A. I.: Sustainable Wheat Cultivation in Sandy Soils: Impact of Organic and Biofertilizer Use on Soil Health and Crop Yield. *Plants-Basel*. 13 (22), 1-21, (article identifier: 3156), 2024. Journal metrics: Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
49. Eissa, F., Elhawat, N. A., Alshaal, T. A. A. I.: Comparative study between the top six heavy metals involved in the EU RASFF notifications over the last 23 years. *Ecotox. Environ. Safe.* 265, 1-12, (article identifier: 115489), 2023. Journal metrics: Q1 Health, Toxicology and Mutagenesis
Q1 Medicine (miscellaneous)
Q1 Pollution
D1 Public Health, Environmental and Occupational Health
50. Elbehiry, F., Alshaal, T. A. A. I., Elhawat, N. A., Elbasiouny, H.: Environmental-Friendly and Cost-Effective Agricultural Wastes for Heavy Metals and Toxicants Removal from Wastewater. In: *Handbook of Environmental Chemistry*. Ed.: Damiła Barceló et al, Springer Science and Business Media Deutschland GmbH, Berlin, 107-127, 2023, (ISSN 1867-979X ; 117)
51. Domokos-Szabolcsy, É., Yavuz, S. R., Picoli, E. A. d. T., Fári, M., Kovács, Z., Tóth, C., Kaszás, L., Alshaal, T. A. A. I., Elhawat, N. A.: Green biomass-based protein for sustainable feed and food supply: An overview of current and future prospective. *Life (Basel)*. 13 (2), 1-37, (article identifier: 307), 2023.
Journal metrics: Q2 Biochemistry, Genetics and Molecular Biology (miscellaneous)
Q2 Ecology, Evolution, Behavior and Systematics
Q1 Paleontology
Q2 Space and Planetary Science

52. Kovács, Z., Soós, Á., Kovács, B., Kaszás, L., Elhawwat, N. A., Razem, M., Veres, S., Fári, M., Koroknai, J., Alshaal, T. A. A. I., Domokos-Szabolcsy, É.: Nutrichemical alterations in different fractions of multiple-harvest alfalfa (*Medicago sativa* L.) green biomass fortified with various selenium forms.
Plant Soil. 487 (1-2), 173-195, 2023.
Journal metrics: D1 Plant Science
Q1 Soil Science
53. Elhawwat, N. A., Csajbók, J., Kovács, S., Veres, S., Fári, M., Domokos-Szabolcsy, É., Alshaal, T. A. A. I.: Phosphorus fertilization rate and dynamics in early development of three giant reed (*Arundo donax* L.) ecotypes.
Biomass Bioenerg. 173, 1-14, (article identifier: 106805), 2023. Journal metrics:
D1 Agronomy and Crop Science
D1 Forestry
Q2 Renewable Energy, Sustainability and the Environment
Q1 Waste Management and Disposal
54. Domokos-Szabolcsy, É., Alshaal, T. A. A. I., Koroknai, J., Kovács, S., Tóth, C., Csilléry, G., Jókai, Z., Matkovits, A., Makleit, P., Veres, S., Fári, M.: Phytochemical evaluation of the fruits and green biomass of determinate-type sweet pepper (*Capsicum annuum* L. fasciculatum) grown in terrestrial bioregenerative life-support research facilities.
J. Plant Interact. 18 (1), 1-21, (article identifier: 2268118), 2023. Journal metrics:
Q2 Ecology, Evolution, Behavior and Systematics
Q2 Plant Science
55. Yavuz, S. R., Elhawwat, N. A., Fári, M., Alshaal, T. A. A. I., Domokos-Szabolcsy, É.: Processing green biomass from dedicated crop mixtures for sustainable protein supply.
56. Yavuz, S. R., Elhawwat, N. A., Fári, M., Zöld, T., Alshaal, T. A. A. I., Domokos-Szabolcsy, É.: Utilizing cultivated crop mixtures to supply a sustainable protein source.
In: Sustainable and Innovative Solutions in Agriculture and Food Industry (SISAF'23) One Health approach. Ed.: Szilvia Veres ; Mariett Kocsisné Papp, Publisher: Dr. László Stündl, Debrecen, 68, 2023. ISBN: 9789634905356
57. Alharbi, K., Hafez, E. M., Omara, A. E. D., Rashwan, E., Alshaal, T. A. A. I.: Zinc oxide nanoparticles and PGPR strengthen salinity tolerance and productivity of wheat irrigated with saline water in sodic-saline soil.
Plant Soil. 493, 475-495, 2023.
Journal metrics: D1 Plant Science
Q1 Soil Science
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Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
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Q1 Multidisciplinary
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Q1 Food Science
Q1 Health Professions (miscellaneous)
Q2 Health (social science)
Q2 Microbiology

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Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
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Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
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Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
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Q2 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science

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Q2 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
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Q1 Agronomy and Crop Science
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Q1 Agronomy and Crop Science
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Q1 Medicine (miscellaneous)
Q1 Pollution
Q1 Public Health, Environmental and Occupational Health
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Q1 Ecology
Q1 Ecology, Evolution, Behavior and Systematics
Q1 Plant Science
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Q1 Medicine (miscellaneous)
Q1 Pollution
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Q1 Medicine (miscellaneous)
Q1 Pollution
Q1 Public Health, Environmental and Occupational Health
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 Q1 Medicine (miscellaneous)
 Q1 Pollution
 Q1 Public Health, Environmental and Occupational Health
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 Q2 Food Science
 Q2 Plant Science
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Q2 Genetics
Q2 Physiology
Q1 Plant Science

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Q1 Ecology
Q1 Soil Science
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Q2 Health, Toxicology and Mutagenesis
Q2 Medicine (miscellaneous)
Q1 Pollution
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Q2 Genetics
Q2 Physiology
Q1 Plant Science
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Q2 Health, Toxicology and Mutagenesis
Q2 Medicine (miscellaneous)
Q1 Pollution
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D1 Medicine (miscellaneous)
D1 Pollution
D1 Toxicology
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Q2 Health, Toxicology and Mutagenesis
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Q1 Plant Science
Q1 Soil Science
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Q3 Health, Toxicology and Mutagenesis
Q2 Medicine (miscellaneous)
Q2 Pollution
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