

Author Impact Report (2023-2026)

Author Impact Summary

Report ID: NEX-AIR-2026-6CEF0E • Generated: 2026-10-12 13:15 • Range: 2023 – 2026

Key Indicators

Total Publications

8

Total Citations

159

Citations This Year

82

Organic Citations

154

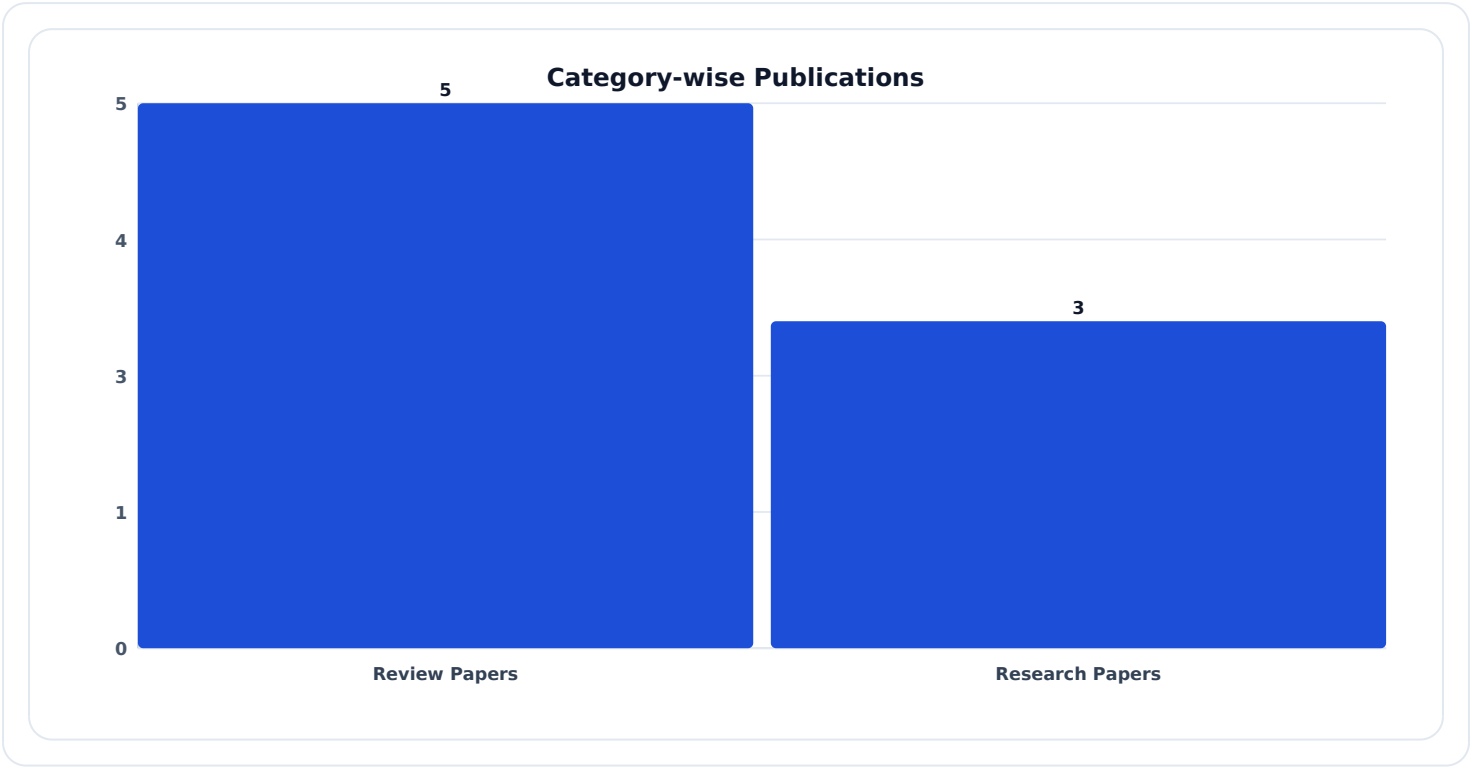
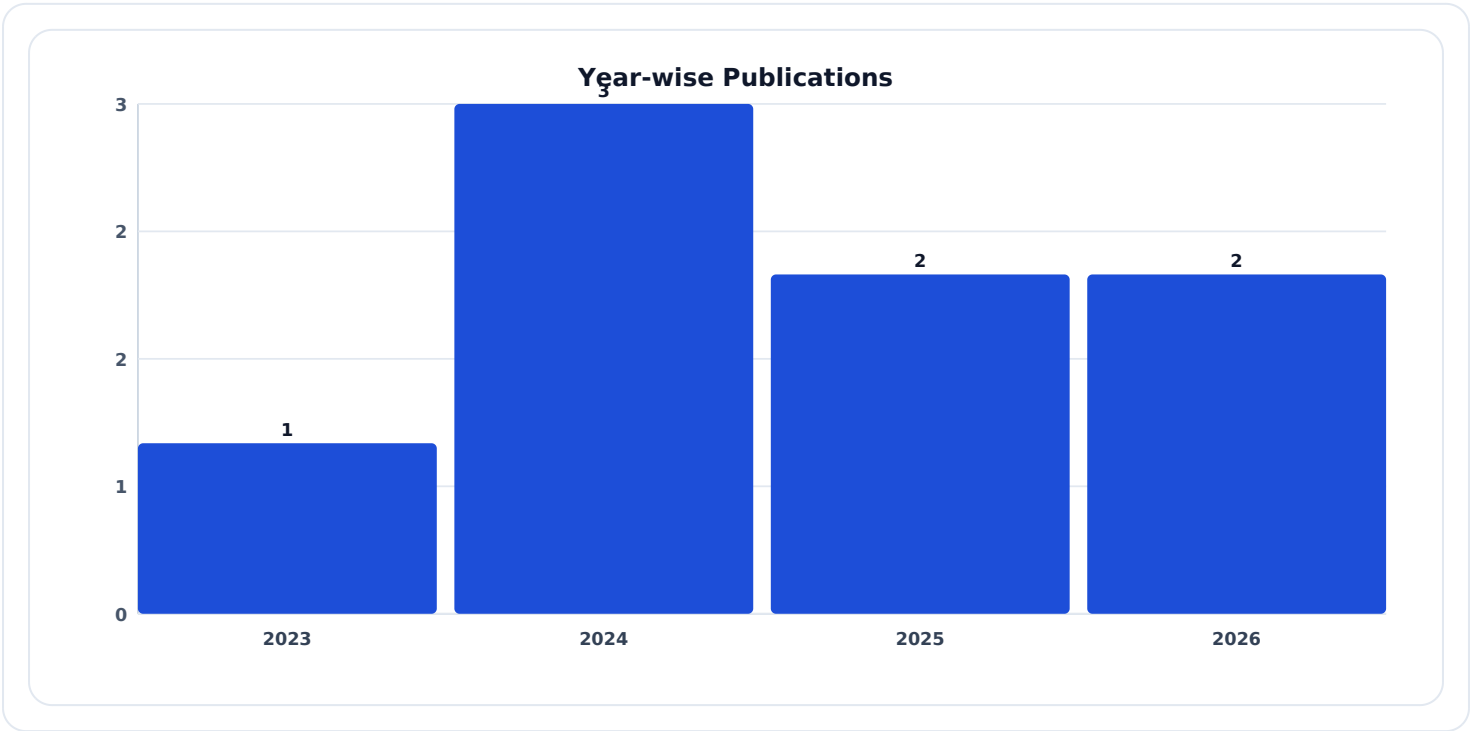
Self Citations

5

H-index / i10-index

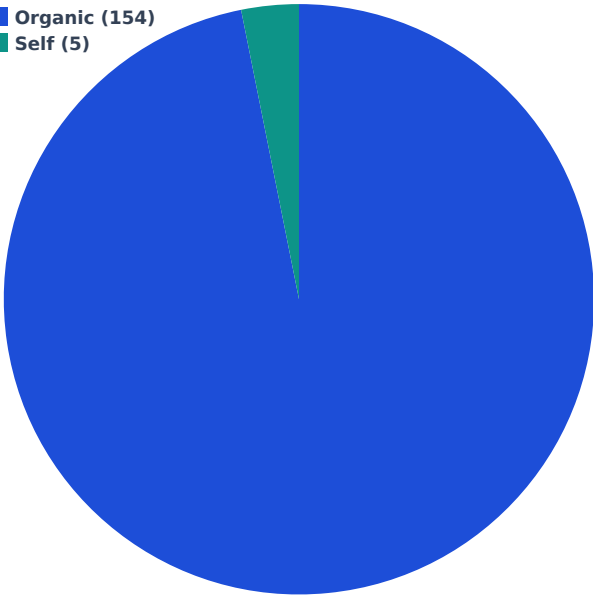
3 / 2

Visual Analytics



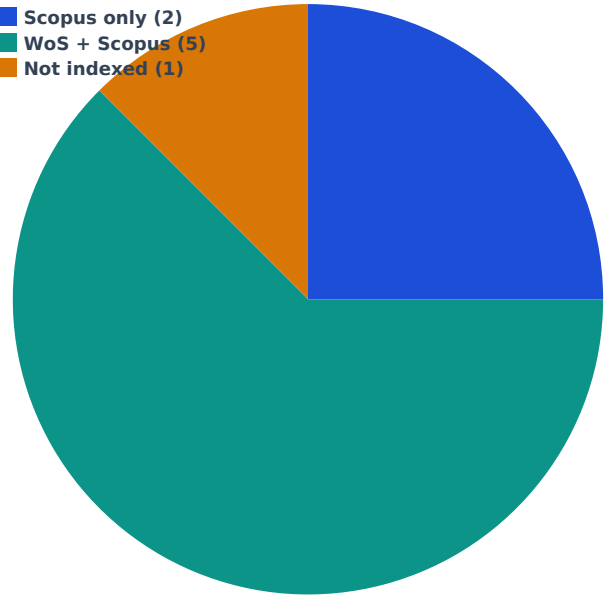
Organic vs Self Citations

■ Organic (154)
■ Self (5)



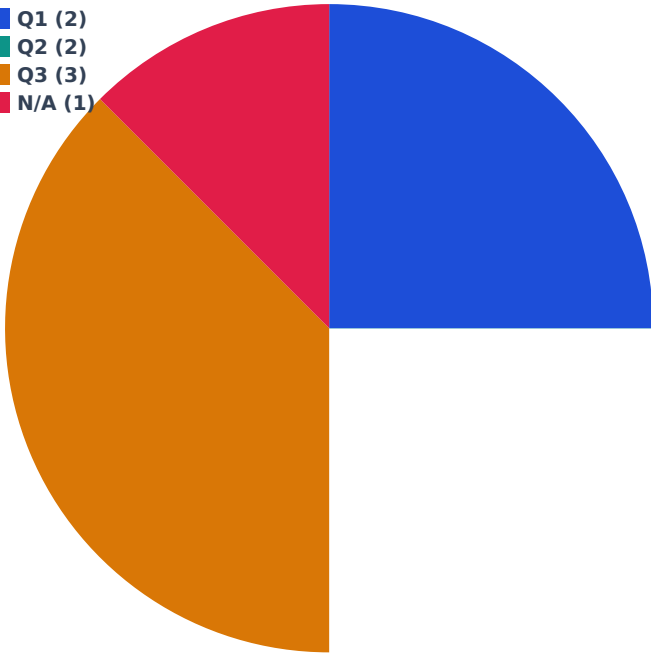
Indexing Share

■ Scopus only (2)
■ WoS + Scopus (5)
■ Not indexed (1)



Scopus Quartiles

■ Q1 (2)
■ Q2 (2)
■ Q3 (3)
■ N/A (1)



Publications

Notice: Impact Factor, CiteScore, and indexing information reflect the journal status at the time the respective article was published (as recorded in the system).

#1 — Microplastics as pesticide vectors in soil: bridging aqueous insights to terrestrial co-contamination risks and ecosystem impacts

Journal: International Journal of Environmental Science and Technology

Year: 2026 • **Published:** 2026-09-24

DOI: 10.1007/s13762-026-07459-9

Details: Vol. 23 • Pages 1-42

Web of Science

Scopus

Q1

Impact Factor: 3.400

CiteScore: 8.200

Citations: 0

Citations

No citations found.

#2 — Silicon: A Sustainable Approach to Climate Resilience and Crop Productivity

Journal: Silicon

Year: 2026 • **Published:** 2026-02-10

DOI: 10.1007/s12633-025-03597-w

Details: Vol. 18 • Pages 1931-1982

Web of Science

Scopus

Q2

Impact Factor: 3.300

CiteScore: 7.700

Citations: 0

Citations

No citations found.

#3 — Soil Pollution in Urban Environments: Sources, Consequences, Potential Mitigation Strategies and the Importance of Sustainable Urban Development

Journal: Water, Air, & Soil Pollution

Year: 2025 • **Published:** 2025-10-04

DOI: 10.1007/s11270-025-08421-0

Details: Vol. 236 • Issue 14

Web of Science

Scopus

Q2

Impact Factor: 3.000

CiteScore: 4.600

Citations: 5

Citations

1.

Lijo Mona; Londeka Nomalungelo Dube; Buhle Buyana; Muthumuni Managa. (2026). Waterborne Diseases and Contaminated Water-Soil Pathways. The Handbook of Environmental Chemistry. https://doi.org/10.1007/698_2026_1274

Organic

Year: 2026

2.

Damotharan Yogaswathy; D Muthumanickam; S Pazhanivelan; P Kannan; P C Prabu; M Gnanachitra. (2026). From soil pollution mapping to sustainable crop production: Advances in geostatistical and hybrid modelling techniques. Plant Science Today, 13(sp5). <https://doi.org/10.14719/pst.15865>

Organic

Year: 2026

3.

Gema Trigos-Peral; Joaquín L. Reyes-López. (2026). Small-scale habitat components as key drivers of biodiversity in urban park design. Preprint (biorxiv). <https://doi.org/10.64898/2026.06.30.735471>

Organic

Year: 2026

4.

Francesco Lami; Laura Zavatta; Agata Morelli; Andrea Ciurli; Giovanni Giorgio Bazzocchi; Matteo Vecchi. (2026). Complex interactions between local habitat features, landscape factors and seasonality shape soil microarthropod communities in urban green areas. Urban Ecosystems, 29(2). <https://doi.org/10.1007/s11252-026-01949-x>

Organic

Year: 2026

5.

Richa Joshi; Jagneet Kour; Raino Bhatia. (2025). Sustainable Practices in Urban Health: Addressing Pollution and Inequality. Global Trends in Smog and Air Pollution Control, 145-176. <https://doi.org/10.4018/979-8-3373-2469-2.ch007>

Organic

Year: 2025

#4 — Effects of Soil-Applied Potassium on Potassium Use Efficiency, Leaf Water, and Biochemical Attributes of Cotton Cultivars Under Reduced Irrigation

Journal: Pakistan Journal of Botany

Year: 2025 • Published: 2025-07-09

DOI: 10.30848/PJB2025-6(30)

Details: Vol. 57 • Issue 6

Web of Science

Scopus

Q3

Impact Factor: 0.900

CiteScore: 2.100

Citations: 0

Citations

No citations found.

#5 — Risk Assessment of Pesticide Residues in Cauliflower grown in the vicinity of Multan City

Journal: Sarhad Journal of Agriculture

Year: 2024 • Published: 2024-10-04

DOI: 10.17582/journal.sja/2024/40.4.1164.1171

Details: Vol. 40 • Issue 4 • Pages 1164-1171

Scopus **Q3** **Citations: 2**

Citations

1.

Preethi, B., & Patil, N. S. (2026). Cauliflower Disease Identification and Classification: A Comprehensive Review. Natural Resources for Human Health (NRFHH), 6(4s), 134-149. <https://nrfhh.com/index.php/journal/article/view/653>

Organic

Year: 2026
2.

Haseeb Ur Rehman; Umair Riaz; Abid Hussain; Abdullah Niaz; Nazia Parveen; Rehman Gul; Muhammad Tariq; Asif Farooq; Adnan Fareed; Ren Maozhi. (2026). Assessment of Pesticide Residues Contamination in Maize Crop and Associated Health Risks in Industrial Adjacent Areas. Planta Animalia, 5(2), 691-701. <https://doi.org/10.71454/pa.005.02.0459a>

Organic

Year: 2026

#6 — Calcium Carbide Induced Ethylene Regulates Seed Dormancy and Post-Germination Growth of Sweet Pepper

Journal: Pakistan Journal of Agricultural Research

Year: 2024 • **Published:** 2024-08-27

DOI: 10.17582/journal.pjar/2024/37.3.223.231

Details: Vol. 37 • Issue 3 • Pages 223-231

Scopus **Q3** **CiteScore: 1.400** **Citations: 1**

Citations

1.

Haiyan Shu; Aiping Luan; You Wang; Junhu He; Rulin Zhan; Shenghe Chang. (2026). Calcium Carbide Initiated Pineapple Inflorescence Through Ethylene and Flowering Locus T. Journal of Plant Growth Regulation. <https://doi.org/10.1007/s00344-026-12428-0>

Organic

Year: 2026

#7 — Impact of microplastics on soil (physical and chemical) properties, soil biological properties/soil biota, and response of plants to it: a review

Journal: International Journal of Environmental Science and Technology

Year: 2024 • **Published:** 2024-05-26

DOI: 10.1007/s13762-024-05656-y

Details: Vol. 21 • Pages 10277-10318

Citations

1. Naima Huma Naveed; Aamir Ali; Aima Iram Batool; Muhammad Fayyaz ur Rehman; Muhammad Mustaqeem; Allah Ditta. (2027). Arbuscular mycorrhizal fungi (AMF) as potential mitigators of microplastic toxicity in soil ecosystems. Advancing Sustainable Agriculture Through Arbuscular Mycorrhizal Fungi, 469-494. <https://doi.org/10.1016/b978-0-443-45130-0.00005-9>

Organic**Year:** 2027

2. Innah Inayyah; Abdullah Abdullah; Sudirman Numba. (2026). Effects of Soil Physical Properties and Slope Gradient on the Growth Performance of Hybrid Maize (ADF Ruby). Journal La Lifesci, 7(4), 298-311. <https://doi.org/10.37899/journallalifesci.v7i4.5995>

Organic**Year:** 2026

3. Yingfen Yang; Lingyan Cui; Zhihui Xie; Junwei Yang; Muhammad Sanaullah Malik; Mohamed Mohany; Chenghu Ye; Waqar Ahmed. (2026). Nano-modified biochar mitigates toxicity from co-contamination with lead and microplastics in alfalfa by modulating photosynthesis, nitrogen assimilation, and antioxidant systems. Chemical and Biological Technologies in Agriculture. <https://doi.org/10.1186/s40538-026-01120-w>

Organic**Year:** 2026

4. Tamilvanan, S., Christopher, S. R., Pandian, K., Marimuthu, R., Nallusamy, S., Pandian, R. V., & Kar, R. (2026). NANOTECHNOLOGY IN SOIL REMEDIATION: EMERGING INNOVATIONS, MECHANISMS AND CHALLENGES FOR CONTAMINANT REMOVAL. Genetics and Molecular Research.

Organic**Year:** 2026

5. Aleksandra Petrović; Aleksandra Popović; Ivana Ivanović; Dušan Marinković; Ana Lazić; Nikola Laćarac; Antonije Žunić; Vojislava Bursić. (2026). Behavioral Avoidance of Soil-Dwelling Organisms Exposed to Polyethylene Microplastics: A Comparative Laboratory Study. Microplastics, 5(4), 191. <https://doi.org/10.3390/microplastics5040191>

Organic**Year:** 2026

6. Priyadarshani Rajput; Gourav Mondal; Manvendra Patel; Kasturi Charan; Smita Kumari; Tatiana Bauer; Avnish Chauhan; Dilfuza Jabborova; Tatiana Minkina; Vishnu D. Rajput. (2026). Bio-geo-transformation, degradation, interaction mechanism and remediation of micro- and nanoplastics in soil using metal-organic framework. Physics and Chemistry of the Earth, Parts A/B/C, 104874. <https://doi.org/10.1016/j.pce.2026.104874>

Organic**Year:** 2026

7. Yubraj Dahal; Ramesh Gautam; Rashika Pandit; Reema Lama Pakhrin; Menuka Prajapati; Deena Prajapati; Tista Prasai Joshi; Rabindra Prasad Dhakal; Sandhya Babel. (2026). Microplastics Pollution in Surface Water of the Bagmati River, Nepal: Spatial Patterns, Tributary Inputs, and Potential Ecological Implications. *Physics and Chemistry of the Earth, Parts A/B/C*, 104881. <https://doi.org/10.1016/j.pce.2026.104881>
- Organic
- Year: 2026
8. Khandaker, M. (2026). Plastic Waste Mismanagement as a Source of Microplastic Pollution in Soil. University of Dhaka, Bangladesh.
- https://www.researchgate.net/publication/414961145_Plastic_Waste_Mismanagement_as_a_Source_of_Microplastic_Pollution_in_So
- Organic
- Year: 2026
9. Md. Sohel Rana; Qingyue Wang; Miho Suzuki; Christian Ebere Enyoh; Afia Sultana; Md. Rezwanul Islam; Tochukwu Oluwatosin Maduka. (2026). Effects of Polypropylene and Polyethylene Terephthalate Microplastics on Nutrient Dynamics in Agricultural Soils: A Laboratory Incubation Study from Two Regions in Bangladesh. *Microplastics*, 5(4), 190. <https://doi.org/10.3390/microplastics5040190>
- Organic
- Year: 2026
10. M. N. Hanif; N. K. Abbood; M. Babur; M. Akhtar; H. Sun; K. Azam; M. N. Akhtar; Q. ul Ain. (2026). Microplastics as pesticide vectors in soil: bridging aqueous insights to terrestrial co-contamination risks and ecosystem impacts. *International Journal of Environmental Science and Technology*, 23(10). <https://doi.org/10.1007/s13762-026-07459-9>
- Self-citation
- Year: 2026
11. Selin Taşyonar; Nur Okur. (2026). Effect of microplastic pollution on selected physico-chemical and microbiological properties of soil and bacterial/fungal community composition. *Ege Üniversitesi Ziraat Fakültesi Dergisi*, 63(3), 403-419. <https://doi.org/10.20289/zfdergi.1887210>
- Organic
- Year: 2026
12. Deepali Rustagi; Kunal; Rohit Kumar; Pankaj Kumar; Atin Kumar; Rajeev; Jungjit Critykar; Debasis Mitra; Mahendru Kumar Gautam; Vishnu D. Rajput; Caleb Ayomide Babatunde. (2026). Microplastics in agricultural soils: sources, soil-plant interactions, ecotoxicological effects and food security concerns. *Frontiers in Soil Science*, 6. <https://doi.org/10.3389/fsoil.2026.1899490>
- Organic
- Year: 2026
13. Alkiviadis Stamatakis; Traianos Minos; Evangelia E. Golia. (2026). Microplastic-Induced Decoupling of Soil Nickel Bioavailability and Phytoaccumulation in Two Industrial Crops. *Agronomy*, 16(18), 1819. <https://doi.org/10.3390/agronomy16181819>
- Organic
- Year: 2026

14. Gong, JJ; Cai, H; Wang, ZJ; Wu, JY. (2026). EFFECTS OF TYPICAL MICROPLASTICS ON SOIL PROPERTIES AND MICROBIAL COMMUNITIES. APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH, 24(5), 9817-9846. DOI: 10.15666/aeer/2405_98179845
Organic
Year: 2026
15. Daniel Mulugeta; Yordanos Fekede; Hagos Tsegaye; Abebe Getachew. (2026). Urban waste dominates microplastic pollution in Ethiopian irrigated farmlands: Evidence from FTIR spectroscopy, random forest classification, and farmer surveys. <https://doi.org/10.21203/rs.3.rs-10329369/v1>
Organic
Year: 2026
16. Debin Sun; Zhangyong Li; Yuanlan Lei; Yan Qiu; Jingxiu Xiao; Yi Zheng. (2026). Responses of Rhizosphere Soil Physicochemical Properties and Enzyme Activities to Polyethylene Microplastic Stress in Maize-Soybean Intercropping. Agriculture, 16(17), 1853. <https://doi.org/10.3390/agriculture16171853>
Organic
Year: 2026
17. Peter Šurda; Lucia Toková; Lenka Botyanszká; Natália Botková. (2026). Radish growth and soil aggregate stability affected by microplastic contamination. Plant, Soil and Environment, 72(8), 503-513. <https://doi.org/10.17221/260/2026-pse>
Organic
Year: 2026
18. Safae Er Raouan; Hamza Bellouk; Imane Er Raouan; Soumya El Abed; Amine Assouguem; Naoufal El Hachlafi. (2026). From soil disruption to biodegradation: A comprehensive review of microplastic effects and microbial breakdown mechanisms in terrestrial ecosystems. CABI Reviews. <https://doi.org/10.1079/cabireviews.2026.0039>
Organic
Year: 2026
19. Yubraj Dahal; Saroj Babu Koirala; Ramesh Gautam; Rashika Pandit; Reema Lama Pakhrin; Rabindra Prasad Dhakal; Sandhya Babel. (2026). Seasonal Variation of Microplastic Contamination in Landfill Leachate, River Water, and Soil During Premonsoon and Monsoon: First Evidence From Landfill Sites in Nepal. Journal of Toxicology, 2026(1). <https://doi.org/10.1155/jt/5660004>
Organic
Year: 2026
20. Firat Yavuz Öztürk; Fadime Özdemir. (2026). Biofilms on microplastics across ecological systems: Formation mechanisms, community composition, environmental impacts, and ecotoxicity. World Journal of Microbiology and Biotechnology, 42(8). <https://doi.org/10.1007/s11274-026-05174-8>
Organic
Year: 2026

21. Mashal Nadeem; Saba Mazhar; Ayesha Shafqat; Sajjad Hyder; Noureddine Besselma; Amjad Shahzad Gondal; Sajid Ullah; Sajad Ali; Mohammed S. Alotaibi; Rashid Iqbal. (2026). Microplastics in agroecosystems: environmental fate, bioavailability and ecotoxicological impacts on soil-plant-microbe interactions. *Environmental Pollutants and Bioavailability*, 38(1). <https://doi.org/10.1080/26395940.2026.2709780>
- Organic**
- Year:** 2026
22. Imbang Dwi Rahayu; Iswahyudi Iswahyudi; Adi Sutanto; Marchel Putra Garfansa; Zhulvie Meylanzharie; Lira Rizqi Nurfadilah; Siti Alfiatul Amani; Asmah Hidayati; Yenni Arista Cipta Ekalaturrahmah; Muzna Ardin Abdul Gafur; Mochamad Chanan; Agus Budiyo. (2026). Earthworm Gut Microbiota as a Biological Driver of Plastic Degradation: Implications for Microplastic Mitigation. *Environmental Microbiology*, 28(8). <https://doi.org/10.1111/1462-2920.70387>
- Organic**
- Year:** 2026
23. Eulyn Pagaling; Cathy Hawes; Stuart J.F.F. Ramage. (2026). Impact of microplastics in agriculture. *CABI Reviews*. <https://doi.org/10.1079/cabireviews.2026.0036>
- Organic**
- Year:** 2026
24. Alice Pita-Barbosa; Oussama Bouaicha; Júlia Melo Henrique; Andreia Neves Fernandes; Crislaine Bertoldi; Walter Ruggeri Waldman; Raphael Tiziani; Felipe Klein Ricachenevsky; Tanja Mimmo. (2026). Impacts of microplastics on plants: Mechanisms of toxicity and detection methods. *Phytotoxicity of Organic Pollutants*, 333-360. <https://doi.org/10.1016/b978-0-443-33110-7.00005-5>
- Organic**
- Year:** 2026
25. Irédon Adjama; Hemen Dave. (2026). Microplastic Contamination in Biomined Recovered Soils: Estimation, Characterization, Chemical Ageing Verification, and Ecological Risk Implication for Agricultural Use. *Journal of Hazardous Materials: Plastics*, 100071. <https://doi.org/10.1016/j.hazmp.2026.100071>
- Organic**
- Year:** 2026
26. Si-Yu Liu; Feng Han; Li-Qi Ma; Zheng Li; Chun-Ru Qin; Ikram Yaqine. (2026). Microplastics Inhibit Microbial Abundance and Enzyme Activities in Pb/Cd Co-contaminated Soil: The Alleviating Role of Biochar. *Journal of Soil Science and Plant Nutrition*. <https://doi.org/10.1007/s42729-026-03444-w>
- Organic**
- Year:** 2026
27. Noble George; Komal Janiyani; Anjali Gupta; Matthew Ogoe; Kwasi Kantanka Safo; Harjeet Singh; Shivani Pandya. (2026). Advanced and Emerging Technologies for Microplastic Remediation. *Water, Air, & Soil Pollution*, 237(17). <https://doi.org/10.1007/s11270-026-09676-x>
- Organic**
- Year:** 2026

28. Harwani, S. and Solanki, K. (2026). Health and Environmental Risks of Microplastics. In Microbiological Interventions in Microplastics Remediation (eds H. Jain and M.P. Shah). <https://doi.org/10.1002/9781394384730.ch3>
- Organic
- Year: 2026
29. Solanki, K. and Harwani, S. (2026). Microplastics in Aquatic and Terrestrial Ecosystems. In Microbiological Interventions in Microplastics Remediation (eds H. Jain and M.P. Shah). <https://doi.org/10.1002/9781394384730.ch2>
- Organic
- Year: 2026
30. Strani, L., Scopetani, C., Pellacani, S., Durante, C. (2026). (Micro)plastics as Vectors of Plasticizers: Leaching of Plastic Additives into Agricultural Systems. In: The Handbook of Environmental Chemistry. Springer, Berlin, Heidelberg. https://doi.org/10.1007/698_2026_1265
- Organic
- Year: 2026
31. Beata Klimek; Maciej Choczyński; Maria Niklińska. (2026). The Effect of Microplastics on Soil Microbial Activity, Biomass, and Microbial Community Structure in Three Types of Temperate Forest. *Forests*, 17(6), 686. <https://doi.org/10.3390/f17060686>
- Organic
- Year: 2026
32. Luqing Yang; Mengyang Wang; Jie Cheng; Jianghu Long; Lun Wang; Jiaqi Liu; Wen Zhai; Junqi Liu; Lisheng Feng; Yang Luo. (2026). Polyethylene Microplastic-Induced Changes in Soil Properties Mediate Nutrient Accumulation and Growth of *Amaranthus tricolor* L.. *Plants*, 15(11), 1720. <https://doi.org/10.3390/plants15111720>
- Organic
- Year: 2026
33. Wenfang Lin; Kai Yang; Tao Lu; Xiaoxi Kang; Xinyu Xing; Ewa Korzeniewska; Natalia P. Ivleva; Feng Ju; Haifeng Qian; Li Cui; Yong-guan Zhu. (2026). The plastisphere: from microbial pollution to biodegradable solution. *ENGINEERING Environment*, 20(9). <https://doi.org/10.1007/s11783-026-2234-5>
- Organic
- Year: 2026
34. Surui Ji; Xuanqi Zhang; Yawen Li; Yuting Zhang; Bin Shao; Jin Liu; Ming Zeng. (2026). Inhibitory effects of polyethylene, polylactic acid microplastics and tyre wear particles on soil nitrification via decreasing ammonium availability and altering microbial communities. *Journal of Soils and Sediments*, 26(6). <https://doi.org/10.1007/s11368-026-04396-5>
- Organic
- Year: 2026
35. Zhang, B., Zhang, H., Weng, X., & Sun, H. (2026). Complex research review on environmental risk management of soil microplastic contamination: Treatment technologies and global perspectives. *MSI Journal of Multidisciplinary Research*, 3(4). <https://doi.org/10.5281/zenodo.19660481>
- Organic
- Year: 2026

36. Mahfuz Ahmmed; Md Hasibuzzaman; Ismail M. Rahman; Sadia Sultana Mitu; Tapos Kumar Chakraborty; Gopal Chandra Ghosh. (2026). Microplastic contamination in locally and industrially produced organic fertilizers: Implications for sustainable agriculture and risk mitigation. *Chemosphere*, 405, 144953. <https://doi.org/10.1016/j.chemosphere.2026.144953>
Organic
Year: 2026
37. Robert Ato Newton; Abdulmannan Rouhani; Karim Suhail Al Souki; Aigerim Mamirova; Valentina Pidlisnyuk. (2026). Effect of biochar application on soil properties, crop yield, and soil carbon sequestration. *Wastewater Treatment with Biochar*, 385-400. <https://doi.org/10.1016/b978-0-443-29865-3.00008-x>
Organic
Year: 2026
38. Arunthathi Elamparuthi; Muniasamy Muniyandi. (2026). Characterisation and quantification of soil microplastics in the Maruthamalai Foothills buffer zone of the Western Ghats, India: Ecological implications. *Ecological Frontiers*. <https://doi.org/10.1016/j.ecofro.2026.04.011>
Organic
Year: 2026
39. Li Dong; Chengcui Yang; Xinting Su; Duo Han; Dongsu Zhao; Zhongyan Tang; Fen Xiong; Yinzhu Dong; Xiaodan Wang; Yonghong He; Shunqiang Yang. (2026). Effects of Different Sources of *Armillaria mellea* Co-Cultivation on the Quality and Soil Microecology of *Gastrodia elata*. *Plants*, 15(9), 1329. <https://doi.org/10.3390/plants15091329>
Organic
Year: 2026
40. Rayanee Chaudhuri; Paramasivan Balasubramanian. (2026). Microalgae as Green Tools for Microplastic Remediation. *Advances in Algal Research*, 339-361. https://doi.org/10.1007/978-981-95-7234-2_17
Organic
Year: 2026
41. Kelsey Smyth; Elodie Passeport; Jennifer Drake. (2026). Microplastics Transport in Porous Media and Modeling in Bioretention Systems: A Review. *Journal of Sustainable Water in the Built Environment*, 12(3). <https://doi.org/10.1061/jswbay.sweng-705>
Organic
Year: 2026
42. Mark Anthony G. Teodoro; Ian B. Benitez; Romano Q. Neyra. (2026). Climate Change Impacts on Power System Reliability and Protection: A Review of Vulnerabilities and Adaptive Engineering Approaches. 2026 International Conference on Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA), 1-6. <https://doi.org/10.1109/acdsa67686.2026.11467766>
Organic
Year: 2026

43. Shade John Akinsete; Elizabeth Tomiwa Ojebode; Zainab Bukola Olatunji; Oluwatoyin Adeyinka Oduneye. (2026). Microplastic Pollution in Urban Soils: The Hidden Climate Change Agent in Ibadan, Nigeria. *Extreme Climate Events, Loss and Damage in Africa*, 147-167. https://doi.org/10.1007/978-3-032-11678-9_7
- Organic
- Year: 2026
44. Rohit Chandravanshi; Aradhana Tiwari; Ankesh Tiwari; Rashmi Dubey; Sudhir Kumar Pandey. (2026). Biochar as an adsorbent for microplastics present in aquatic environments: A comparative review between batch and column adsorption. *Journal of Environmental Chemical Engineering*, 14(3), 122530. <https://doi.org/10.1016/j.jece.2026.122530>
- Organic
- Year: 2026
45. Mohamed Idbella; Rihab Djebaili; Ayoub Idbella; Mohamed Rida Abelouah; Giuseppina Iacomino; Marika Pellegrini; Giuliano Bonanomi. (2026). Impact of microplastics on soil microbiota and phosphorus dynamics - a review. *Emerging Contaminants*, 100663. <https://doi.org/10.1016/j.emcon.2026.100663>
- Organic
- Year: 2026
46. Guangwei Sun; Ran Wang; Minghui Liu; Rui Wang; Guangjiong Qin; Zhenguo Chen; Chuanzong Li; Yi Liu. (2026). Integrated microbiome-metabolome analysis reveals phytotoxicity of biodegradable and non-biodegradable microplastics in tobacco and biochar-mediated mitigation via particle size modulation. *Industrial Crops and Products*, 244, 123174. <https://doi.org/10.1016/j.indcrop.2026.123174>
- Organic
- Year: 2026
47. Xin Cao; Zidan Liu; Yadong Xu; Haifeng Zhang; Taiping Zhang; Lei Ouyang. (2026). Effects of microplastics & antibiotics compound pollution on microbial communities and carbon metabolisms of plant-soil system. *Journal of Environmental Chemical Engineering*, 122383. <https://doi.org/10.1016/j.jece.2026.122383>
- Organic
- Year: 2026
48. HUANG Yu-ping, ZHOU Li-yin, ZHANG Miao-miao, YUAN Ji-hong, GUO Chun-lan, REN Qiong. Effects of Polystyrene Microplastics on the Growth and Physiological Characteristics of *Zizania latifolia*[J]. *WETLAND SCIENCE & MANAGEMENT*, 2026, 22(1): 19-24. doi: 10.3969/j.issn.1673-3290.2026.01.03
- Organic
- Year: 2026
49. Tamara Meizoso-Regueira; Yingxue Yu; Markus Flury; Matthias C. Rillig. (2026). Critical thresholds in soil physical properties driven by microplastics. *Microplastics and Nanoplastics*. <https://doi.org/10.1186/s43591-026-00188-3>
- Organic
- Year: 2026
50. Anshul; Archit Kapil; Vansh Gupta; Gayatri Saini; Sandeep Kumar Barwal; Harsh Singh. (2026). Plastic Pollution as a Driver of Aquatic Biodiversity Decline: Mechanisms, Ecological Consequences, and Mitigation Imperatives.

Organic

Year: 2026

51. Zhe-Xi Luan; Jia Ran; Hao-Qin Xiong; Hong Xiang; Xiao-Long Sun. (2026). Polypropylene and Polylactic Acid Microplastics Alter Plateau Wetland Seed Bank Emergence and Community Assembly: A Greenhouse Stress Test Experiment. *Plants*, 15(6), 910. <https://doi.org/10.3390/plants15060910>
- Organic
- Year: 2026
52. Arghya Protik Chowdhury. (2026). A Comprehensive Review on Environmental Migration, Physicochemical Transformations, and Exposure-Related Health Risks of Microplastics. <https://doi.org/10.20944/preprints202603.0921.v1>
- Organic
- Year: 2026
53. Manish Chaudhary; Shivam Tiwari; Rajat Singh Rana; Surindra Suthar. (2026). Microplastic Pollution in Compost from Municipal Composting Facilities in Uttarakhand Himalayan Region, India: Characterization and Ecological Risk Assessment. *Environmental Research*, 124259. <https://doi.org/10.1016/j.envres.2026.124259>
- Organic
- Year: 2026
54. Ignazio Allegretta; Concetta Eliana Gattullo; Mohammad Yaghoubi Khanghahi; Carlo Porfido; Fani Sakellariadou; Carmine Crecchio; Matteo Spagnuolo; Roberto Terzano. (2026). Microplastics as Source or Sink of Potentially Toxic Elements: Dynamics in the Soil-Plant System. <https://doi.org/10.20944/preprints202602.1393.v1>
- Organic
- Year: 2026
55. Zirong Kong; Meilin Zhang; Yingying Jiang; Kerong Fan; Yulong Li; Qiao Guo; Hangxian Lai. (2026). Assessing soil biological indicators across a fertility gradient in agricultural areas of Shaanxi Province, China. *Plant and Soil*. <https://doi.org/10.1007/s11104-026-08409-7>
- Organic
- Year: 2026
56. Špela Železnikar; Nina Kacjan Maršič. (2026). Plastika v kmetijstvu: uporaba in vplivi ostankov plastike na tla ter zelenjadarske pridelovalne sisteme. *Acta Biologica Slovenica*, 69(2). <https://doi.org/10.14720/abs.69.2.25804>
- Organic
- Year: 2026
57. Munawar Hussain; Wajiha Sarfraz; Chengrong Chen; Rahat Shabir; Ghulam Abbas; Mehran Rezaei Rashti. (2026). From waste to resource: unveiling the nexus between compost, microplastics, and agroecosystem. *Journal of Hazardous Materials Advances*, 21, 101033. <https://doi.org/10.1016/j.hazadv.2026.101033>
- Organic
- Year: 2026

58. Shanshan Zhao; Lan Li; Jianing Sun; Jingyu Hu; Wu Liu; Xin Cheng; Dan Zhou; Bo Cheng. (2026). Soil bacterial community and vanadium fate shaped by co-exposure to polyethylene microplastics and native vanadium pollution. *Applied Soil Ecology*, 219, 106807. <https://doi.org/10.1016/j.apsoil.2026.106807>
- Organic
- Year: 2026
59. Xianliang Wu; Jinfa Chen; Yaoyue Su; Zhenming Zhang; Jun Wang. (2026). A systematic review of the soil C, N, and P cycles mediated by microplastics: Enzyme activities, greenhouse gas emissions and plant growth. *Resources, Conservation and Recycling*, 228, 108788. <https://doi.org/10.1016/j.resconrec.2026.108788>
- Organic
- Year: 2026
60. Špela Železnikar; Andraž Dolar; Tjaša Danevčič; Marina Pintar; Damjana Drobne. (2026). Direct and indirect effects of microplastics from agricultural mulch films on terrestrial isopods *Porcellionides pruinosus* (Crustacea, Isopoda): A comparative exposure study. *Ecotoxicology and Environmental Safety*, 309, 119741. <https://doi.org/10.1016/j.ecoenv.2026.119741>
- Organic
- Year: 2026
61. Aditi Biswas; Partha Chandra Debnath; Khandakar Rashedul Islam; MD Jahid Hasan; Sarajit Sarker; Sk Mahmudul Hasan Asif; Md Abu Rayhan; Md Simoon Nice; Monishanker Halder; Tapos Kumar Chakraborty; Samina Zaman; Gopal Chandra Ghosh. (2026). Source tracking, pollution load, and risk assessment of microplastics pollution in agricultural soils of Bangladesh using machine learning and multi-matrix approaches. *Environmental Pollution*, 392, 127669. <https://doi.org/10.1016/j.envpol.2026.127669>
- Organic
- Year: 2026
62. Priyanka Singh; Murugesh Shivashankar. (2026). Unveiling the soil-altering synergy: The dynamic interplay between microplastics and extracellular polymeric substances (EPS) in agricultural landscapes. *Chemical Engineering Journal Advances*, 25, 101042. <https://doi.org/10.1016/j.cej.2026.101042>
- Organic
- Year: 2026
63. Garima Kaushik; P. Manuraj; Mohd Ashraf Dar; Preksha Palsania; Shalni Satya; Ommer Ahad Bhat; Shailesh Kumar Patidar. (2026). Microplastic exposure and its impact on the growth and physiological functions of *Cicer arietinum*. *Biocatalysis and Agricultural Biotechnology*, 72, 103920. <https://doi.org/10.1016/j.bcab.2026.103920>
- Organic
- Year: 2026
64. Iqra Binti Ayoub; Shoukat Ara; Suhail A. Lone. (2026). Deciphering the impact of microplastics (MPs) on Himalayan agricultural soils: Current knowledge and future perspectives. *Journal of Hazardous Materials Advances*, 21, 100991. <https://doi.org/10.1016/j.hazadv.2025.100991>
- Organic
- Year: 2026

65. Nafisa Rumman Safa; Syeda Ayshia Akter; Joyenta Das; Fahmida Sultana. (2026). Risk assessment and influence of microplastics on mangrove forest soil: Sandwip Island, Chittagong, Bangladesh. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-026-37520-6>
- Organic
- Year: 2026
66. Dong Ki Hwang; Jeyoung Park; Dongyeop X. Oh; Hyeonyeol Jeon; Jun Mo Koo. (2026). Assessing the Role of Compostable Plastics in Circular Economy Transition. *ChemSusChem*, 19(1). <https://doi.org/10.1002/cssc.202501938>
- Organic
- Year: 2026
67. Weijie Jin; Yubao Zhang; Yan Li; Ruidong Li; Xuesi Su; Sailing Jing; Ruoyu Wang; Yang Qiu; Xiaofan Xie; Zhihong Guo; Xia Zhao. (2026). Polyethylene microplastics induce microbial functional reprogramming via rhizosphere network disruption, accelerating soil decline. *Journal of Environmental Management*, 397, 128236. <https://doi.org/10.1016/j.jenvman.2025.128236>
- Organic
- Year: 2026
68. Ying Qin; Zhipu Wang; Fei Yang; Dean Wang; Wei Liu; Daoren Hanikai; Jian Liu; Jiabin Zhou; Dan Liu. (2026). Research progress on pyrolysis and resource utilisation of waste plastics: Methods, mechanisms, influencing factors, and future prospects. *Journal of Analytical and Applied Pyrolysis*, 193, 107459. <https://doi.org/10.1016/j.jaap.2025.107459>
- Organic
- Year: 2026
69. Saif Uddin; Nazima Habibi; Montaha Behbehani. (2026). Microplastics in Soil: Inventories, Effect and Environmental Risks. *Sustainability Sciences in Asia and Africa*, 1-28. https://doi.org/10.1007/978-981-95-2740-3_1
- Organic
- Year: 2026
70. Galvez Sandoval, L. A. (2025). Desarrollo de una metodología para la determinación de microplásticos en suelo [Universidad Autónoma Metropolitana (México). Unidad Azcapotzalco.]. <https://hdl.handle.net/11191/13901>. <https://zaloamati.azc.uam.mx/items/a141e038-05f4-42ee-ac22-a36cdc6b35e2>.
- Organic
- Year: 2025
71. Farooq, Z. B., Noor, M., Ahmed, K., Jan, P., Arain, Z., & Noman. (2025). Soil Biota: The Living Engine of Soil Health, 4(7). <https://biologicaltimes.com/published-articles-details/?id=1484>
- Organic
- Year: 2025
72. Nikola Kilibarda; Andjela Djordjevic. (2025). THE GROWING PROBLEM OF SOIL POLLUTION WITH MICROPLASTICS: A REVIEW. *IRASA International Scientific Conference SCIENCE, EDUCATION, TECHNOLOGY AND INNOVATION SETI VII 2025*, 369-377. <https://doi.org/10.62982/seti07.niki.35>
- Organic
- Year: 2025

73. Ji Hengying, Yang Mingyao, Li Pan. Impact of varying particle sizes of cotton stalk biochar on water and solute movement in soil contaminated with polyethylene microplastics. *Journal of Agro-Environment Science* 2025,44(11):2946-2955. DOI: 10.11654/jaes.2024-1046
- Organic
- Year: 2025
74. Aaron Ohene Boanor; Rose Nimoh Serwaa; Jin Hee Park; Jwakyung Sung. (2025). Impacts of Micro/Nanoplastics on Crop Physiology and Soil Ecosystems: A Review. *Soil Systems*, 10(1), 2. <https://doi.org/10.3390/soilsystems10010002>
- Organic
- Year: 2025
75. Kun Li; Weiyi Li; Yonghong Peng; Zhangle Chen; Zidong Ye. (2025). UV-Aged microplastic agricultural ecological risk: Mechanisms of tire wear particles affecting wheat growth and soil health through concentration-aging interactions. *Journal of Environmental Chemical Engineering*, 13(6), 120427. <https://doi.org/10.1016/j.jece.2025.120427>
- Organic
- Year: 2025
76. Zirong Kong; Meilin Zhang; Yingying Jiang; Kerong Fan; Yulong Li; Qiao Guo; Hangxian Lai. (2025). Assessing soil biological properties as quality indicators across a fertility gradient in agricultural areas of Shaanxi Province, China. <https://doi.org/10.21203/rs.3.rs-8003942/v1>
- Organic
- Year: 2025
77. Chengbo Lu; Haiyang Dong; Hong Li; Xinjie Huang; Yankun Du; Ziyao Ren; Zhiqiang Xu; Bing Li; Lusheng Zhu; Jinhua Wang; Jun Wang. (2025). Toxicity comparison of multiple biodegradable and conventional microplastics on earthworms: Ingestion, tissue damage, oxidative stress, and transcriptional responses. *Ecotoxicology and Environmental Safety*, 307, 119415. <https://doi.org/10.1016/j.ecoenv.2025.119415>
- Organic
- Year: 2025
78. Ilaria Savino; Claudia Campanale; Paola Grenni; Cristina Cavone; Francesca Garganese; Anna Barra Caracciolo; Vito Felice Uricchio; Valeria Ancona. (2025). Effects of micro and nanoplastics on plant-assisted bioremediation for contaminated soil recovery: A review. *Science of The Total Environment*, 1007, 180905. <https://doi.org/10.1016/j.scitotenv.2025.180905>
- Organic
- Year: 2025
79. Aayusha Upreti; Roshan Babu Ojha; Susma Giri; Basant Giri. (2025). Impact of Plastic Mulching on Microplastic Contamination in Mountainous Agricultural Soils. *Journal of Sustainable Agriculture and Environment*, 4(4). <https://doi.org/10.1002/sae2.70109>
- Organic
- Year: 2025

80. Weber, C. J., & Bigalke, M. (2025). Bodenkontamination durch Mikroplastik. *Geographische Rundschau*, 2025(11), 22-27. https://elibrary.utb.de/doi/abs/10.5555/51251100_04
Organic
Year: 2025
81. Angelica Barone; Giorgio Impollonia; Michele Croci; Stefano Amaducci. (2025). Microplastics contamination on spinach (*Spinacia oleracea*): influence of plastic polymers, growing media, and copper co-exposure. *Next Research*, 2(4), 101018. <https://doi.org/10.1016/j.nexres.2025.101018>
Organic
Year: 2025
82. Wenxuan Lv; Yixue Bai; Dongyang Zhu; Changzheng He; Fengjiao Bu; Yusong Luo; Ping Zhao; Yanhong Qiu; Zunzheng Wei; Jie Zhang; Shaogui Guo; Yongtao Yu; Jingfang Wang; Yi Ren; Guoyi Gong; Haiying Zhang; Yong Xu; Guang Liu; Sihui Dai; Maoying Li. (2025). Innovative Application of Nanomaterials in Vegetable Cultivation: Recent Advances in Growth Promotion and Stress Tolerance. *Nanomaterials*, 15(21), 1659. <https://doi.org/10.3390/nano15211659>
Organic
Year: 2025
83. Zhifeng Jia; Linhui Zhang; Yanhua Wang; Jialu Pang; Jia Chen; Tianhao Zhang; Wei Wei. (2025). Occurrence characteristics, source analysis, and risk assessment of microplastics in agricultural soils: A case study on Shihezi Reclamation Area, Xinjiang, China. *Science of The Total Environment*, 1004, 180768. <https://doi.org/10.1016/j.scitotenv.2025.180768>
Organic
Year: 2025
84. Tumwet, F. C. (2025). Transport and Fate of Microplastics in Terrestrial Environments [PhD Dissertation, Technischen Universität Bergakademie Freiberggenehmigte]. <https://tubaf.qucosa.de/api/qucosa%3A99581/attachment/ATT-0/>
Organic
Year: 2025
85. Paul Boisseaux; Marie Laure Delignette-Muller; Tamara Galloway. (2025). A Quantitative Environmental Risk Assessment for Microplastics in Sewage Sludge Applied to Land. *Environmental Science & Technology*, 59(49), 26526-26538. <https://doi.org/10.1021/acs.est.5c08026>
Organic
Year: 2025
86. Ria Mukhopadhyay; Koushik Biswas; Sourav Roy; Parijat De. (2025). Breaking down microplastics: insights into the role of actinomycetes in biotic degradation pathways. *Archives of Microbiology*, 207(12). <https://doi.org/10.1007/s00203-025-04528-4>
Organic
Year: 2025
87. Solange Magalhães; Luís Alves; Bruno Medronho; Ida Svanedal; Magnus Norgren; Maria Graça Rasteiro. (2025). Innovative Approaches to Mitigating Microplastic Pollution in Effluents and Soils. *Sustainability*, 17(20), 9014.

<https://doi.org/10.3390/su17209014>

Organic

Year: 2025

88. Thurin, R. (2025). Woodland establishment costs in England: a review. The Research Agency of the Forestry Commission. https://cdn.forestresearch.gov.uk/2024/05/Woodland_Establishment_Costs_Report.pdf#page=3.18

Organic

Year: 2025

89. O. O. Mytsyk; S. M. Shevchenko; O. O. Havriushenko; Y. I. Tklich; O. M. Shevchenko. (2025). Integrated bioremediation and reclamation strategies for militarily damaged agricultural soils. *Agrology*, 8(3), 153-167. <https://doi.org/10.32819/202519>

Organic

Year: 2025

90. Lorenz F. Dettmann; Oliver Kühn; Ashour A. Ahmed. (2025). Coarse-grained simulations of sulfanilamide and hexachlorobenzene mobility in soil organic matter. *Environmental Science: Advances*, 4(12), 2079-2090. <https://doi.org/10.1039/d5va00237k>

Organic

Year: 2025

91. James Joseph Mwesiga; Dativa Joseph Shilla; Daniel Abel Shilla. (2025). Microplastics in irrigation water and vegetable garden soils adjacent to the Msimbazi river, Tanzania. *Discover Applied Sciences*, 7(10). <https://doi.org/10.1007/s42452-025-07742-3>

Organic

Year: 2025

92. Hongzhi Ma; Tao Yu; Weihong Chen; Baochuan Qi; Dan Feng; Dayi Qian; Jian Yang. (2025). Fate and Impacts of Microplastics in Sludge Anaerobic Digestion: Effects on Methanogenic and Acidogenic Pathways. *ChemistrySelect*, 10(37). <https://doi.org/10.1002/slct.202503290>

Organic

Year: 2025

93. Dorota Wieczorek; Paulina Pipiak; Dorota Gendaszewska; Katarzyna Ławińska. (2025). Microplastic Recovery and Conversion Pathways: The Most Recent Advancements in Technologies for the Generation of Renewable Energy. *Energies*, 18(18), 4949. <https://doi.org/10.3390/en18184949>

Organic

Year: 2025

94. Aolei Du; Yanjun Li; Qiying Jian; Kai Zhang; Yutang Luo; Jun Yan; Peixin Du; Deborah M. Power; Ying Li; Yibing Ma. (2025). Multidimensional characterization of microplastic pollution in subtropical urban soils: Combining geospatial analysis and polymer risk indexing. *Journal of Hazardous Materials*, 498, 139898. <https://doi.org/10.1016/j.jhazmat.2025.139898>

Organic

Year: 2025

95. Laura Hernández-Sánchez; Vianii Cruz-López; Rosario Herrera-Rivera; Francisco Solis-Pomar; José Navarro-Antonio; Heriberto Cruz-Martínez. (2025). Impacts of Microplastics and Nanoplastics on Tomato Crops: A Critical Review. *Environments*, 12(9), 328. <https://doi.org/10.3390/environments12090328>
Organic
Year: 2025
96. Xingyu Zhong; Liyuan Qiang; Jinping Cheng; Zhihang Sun; Huibing Hu; Han Liu; Ruoyu Zhang. (2025). Aging or degradation? Transformation mechanisms of microplastics in soil environments. *Applied Soil Ecology*, 215, 106394. <https://doi.org/10.1016/j.apsoil.2025.106394>
Organic
Year: 2025
97. Ruojia Li; Kendall Wontor; Boluwatife S. Olubusoye; J. Stephen Brewer; James V. Cizdziel. (2025). Direct μ -FTIR analysis of microplastics deposited on silicon in indoor air environments. *npj Emerging Contaminants*, 1(1). <https://doi.org/10.1038/s44454-025-00009-x>
Organic
Year: 2025
98. Yoonjung Seo; Yunru Lai; Guangnan Chen; John Dearnaley; Li Li; Pingan Song. (2025). Size and concentration-dependent effects of polyethylene microplastics on soil chemistry in a microcosm study. *Journal of Hazardous Materials*, 497, 139668. <https://doi.org/10.1016/j.jhazmat.2025.139668>
Organic
Year: 2025
99. Ramzi H. Amran; Fotoon Sayegh; Sathianeson Satheesh. (2025). Socioeconomic Impacts of Microplastics Pollution in the Marine Environment. *Marine Microplastics and the Quest for Remediation*, 173-196. https://doi.org/10.1007/978-981-96-8979-8_7
Organic
Year: 2025
100. Kelsey Smyth; Léo Dourneau; Damien Tedoldi; Bruno Tassin; Mikaël Kedzierski; Rachid Dris. (2025). Soil contamination by microplastics in a small French agricultural watershed. *Environmental Pollution*, 387, 127316. <https://doi.org/10.1016/j.envpol.2025.127316>
Organic
Year: 2025
101. Zhenxiu Liu; Yali Liu; Zifang Zhou; Yangbeijia Liu; Fuman Cai; Ziqiang Liu; Jianwu Wang. (2025). Polyethylene microplastics reduce microbe-driven multifunctionality in maize-soybean intercropping ecosystem. *Journal of Hazardous Materials*, 496, 139491. <https://doi.org/10.1016/j.jhazmat.2025.139491>
Organic
Year: 2025
102. Yan Qin; Xiaohui Tian; Ji Zhang; Yangping Tu; Congcong Chen. (2025). Combined toxicity and ecological impacts of soil microplastics and heavy metals in rhizosphere microenvironments: a comprehensive review. *Journal of Soils and*

Sediments, 25(9), 2551-2570. <https://doi.org/10.1007/s11368-025-04102-x>

Organic

Year: 2025

103. S. Rathikannu; Sneha Gautam; Suneel Kumar Joshi; Praveena Katharine; K. E. Mithra; P. Banusaranya; V. M. Amudhavarshini; R. Gayatri; Chang-Hoi Ho. (2025). FTIR based assessment of microplastic contamination in soil water and insect ecosystems reveals environmental and ecological risks. *Scientific Reports*, 15(1). <https://doi.org/10.1038/s41598-025-14507-w>

Organic

Year: 2025

104. Lin Ai; Mingmin Wei; Jiangming Ma; Yuxin Dai; Jiaojiao Zhang; Feng Chen; Yunbin Qin; Hao Yang. (2025). Occurrence patterns and ecological implications of microplastic contamination in citrus orchard soils on Karst Sloping Terrains, South China. *Journal of Hazardous Materials*, 496, 139391. <https://doi.org/10.1016/j.jhazmat.2025.139391>

Organic

Year: 2025

105. Muhammad Afzal; Xiyu Tan; Yihang Ouyang; Yihang Chen; Qihua Liang; Mehmood Jan; Arif Ali Khattak; Xiaolin Wang; Xiaoyuan Chen; Xiaoying Zhang; Zhiyuan Tan. (2025). Bacterial-charged biochar enhances plant growth and mitigates microplastic toxicity by altering microbial communities and soil metabolism. *Plant Stress*, 17, 100916. <https://doi.org/10.1016/j.stress.2025.100916>

Organic

Year: 2025

106. Kuok Ho Daniel Tang. (2025). Microplastics in Soil: Uncovering Their Hidden Chemical Implications. *Tropical Aquatic and Soil Pollution*, 5(1), 88-109. <https://doi.org/10.53623/tasp.v5i1.703>

Organic

Year: 2025

107. Svetlana Didorenko; Islambek Sagit; Rinat Kassenov; Almagul Dalibayeva; Rauan Zhapayev; Gulya Kunypiyaeva; Aigul Zhapparova; Rystay Kushanova; Elmira Saljnikov. (2025). Monitoring of Pod Dehiscence and Non-Shedding of Soybean Varieties and Hybrid Populations in Kazakhstan. *Agronomy*, 15(4), 969. <https://doi.org/10.3390/agronomy15040969>

Organic

Year: 2025

108. Anonymous (2025). Microplast Far From Fantastic. *Chemistry & Industry*, 89(3), 26-29. <https://doi.org/10.1002/cind.10404>

Organic

Year: 2025

109. Xinru Li; Fuhan Guo; Yidong Mi; Rong Zhang. (2025). Aging increases the phytotoxicity of polyethylene and polypropylene to *Lactuca Sativa* L. compared to original microplastics. *Journal of Environmental Management*, 383, 125423. <https://doi.org/10.1016/j.jenvman.2025.125423>

Organic

Year: 2025

110. Veena Vinod; P. S. Amritha; P. B. Harathi. (2025). Assessing the effects of microplastic pollution on soil and its impact on survival of earthworms and green gram plants. *Discover Soil*, 2(1). <https://doi.org/10.1007/s44378-025-00050-7>
- Organic
- Year: 2025
111. Anil Kumar Singh. (2025). Microplastic Alters Rhizosphere Microbiome: A Review. *Microplastics and Soil Microbiome*, 159-177. https://doi.org/10.1007/978-981-96-4978-5_7
- Organic
- Year: 2025
112. Jianxin Fan; Xuefeng Jiang; Guoqing He. (2025). Soil Aggregates and Organic Carbon Transformation in Response to Microplastics Pollution. *Water, Air, & Soil Pollution*, 236(8). <https://doi.org/10.1007/s11270-025-08202-9>
- Organic
- Year: 2025
113. Shaoli Liu; Qiang Sun; Pengda Ma; Rui Lv; He Zhang; Jingjing Nan. (2025). The impact of tire rubber powder contaminants on the physical properties of loess. *Frontiers in Environmental Science*, 13. <https://doi.org/10.3389/fenvs.2025.1578858>
- Organic
- Year: 2025
114. Špela Železnikar; Nina Kacjan Maršić; Marina Pintar. (2025). Sowing in Plastic Contaminated Soils: How (Micro)plastics Impact Seed Germination and Growth of White Mustard (*Sinapis alba* L.). *Applied Sciences*, 15(12), 6801. <https://doi.org/10.3390/app15126801>
- Organic
- Year: 2025
115. Hanghang Zhao; Wenquan Cui; Shaoqing Yang; Kun Zheng; Fengmin Song; Zhifeng Liu; Puhui Ji. (2025). Potential of a novel magnetic gangue material for remediating wastewater and field co-polluted by microplastics and heavy metals. *Separation and Purification Technology*, 368, 133030. <https://doi.org/10.1016/j.seppur.2025.133030>
- Organic
- Year: 2025
116. Yoora Cho; Geonwook Hwang; Mee Kyung Sang; Patryk Oleszczuk; Jonathan Tian En Lee; Sung Yeon Hwang; Yong Sik Ok. (2025). In Situ Impact of Waste Polyethylene (<sc>PE</sc>) Films on Soil Quality and Plant Growth in Agricultural Soil. *Land Degradation & Development*, 36(14), 5054-5065. <https://doi.org/10.1002/ldr.5687>
- Organic
- Year: 2025
117. Varsha Prakash Shetty; Sadanand Dangari Akshay; Barani Devi Thilai; Vijaya Kumar Deekshit. (2025). Biomedical waste management: navigating the challenges to achieve the promise of sustainable development goal 3. *Waste Disposal & Sustainable Energy*, 7(2), 303-321. <https://doi.org/10.1007/s42768-025-00231-8>
- Organic
- Year: 2025

118. Irédon Adjama; Hemen Dave. (2025). Tackling microplastic contamination in sewage sludge: Optimizing organic matter degradation, quantifying microplastic presence, and evaluating ecological risks for sustainable agriculture. *Science of The Total Environment*, 974, 179201. <https://doi.org/10.1016/j.scitotenv.2025.179201>
- Organic
- Year: 2025
119. Špela Železnikar; Matic Noč; Vesna Zupanc; Esperanza Huerta Lwanga; Damjana Drobne; Marina Pintar. (2025). Impact of conventional and biobased microplastics from mulch films on soil bulk density, hydraulic conductivity and water retention in two different soil types under wetting–drying cycles. *Results in Engineering*, 25, 104455. <https://doi.org/10.1016/j.rineng.2025.104455>
- Organic
- Year: 2025
120. Muhittin Onur Akca. (2025). Microplastic accumulation in soils around open dumping and scrapyard sites in Türkiye. *Soil Use and Management*, 41(1). <https://doi.org/10.1111/sum.70021>
- Organic
- Year: 2025
121. Elmira Saljnikov; Tara Grujić; Marina Jovković; Veljko Perović; Dragan Čakmak; Aigul Zhapparova; Vesela Radović; Slobodan Stefanović; Vladimir Miladinović; Slađan Stanković; Žaklina Marjanović; Sayagul Kenzhegulova; Aigul Tleppayeva; Gulya Kunypiyaeva; Slobodan Krnjajić. (2025). Changes in Soil Properties Under the Influence of Microplastics in Plastic and Open Field Production in Three Serbian Valleys. *Horticulturae*, 11(3), 305. <https://doi.org/10.3390/horticulturae11030305>
- Organic
- Year: 2025
122. Sheha Shaji; Padmanaban Velayudhaperumal Chellam; Baranidharan Sundaram. (2025). Interactions of Microplastics with Co-Occurring Pollutants in Soil Environment. *Water, Air, & Soil Pollution*, 236(4). <https://doi.org/10.1007/s11270-025-07855-w>
- Organic
- Year: 2025
123. Hui Zhou; Hongfei Yang; Xin Zhou; Yueqing Wang; Chao Hong. (2025). Influences of microplastics alone and co-contaminated with cadmium on physiological responses of Chinese cabbage (*Brassica campestris* L.), rhizosphere microbes and soil properties in soil. *Human and Ecological Risk Assessment: An International Journal*, 31(3-4), 509-543. <https://doi.org/10.1080/10807039.2025.2464116>
- Organic
- Year: 2025
124. Milad Aminzadeh; Tanmay Kokate; Nima Shokri. (2025). Microplastics in sandy soils: Alterations in thermal conductivity, surface albedo, and temperature. *Environmental Pollution*, 372, 125956. <https://doi.org/10.1016/j.envpol.2025.125956>
- Organic
- Year: 2025

125. M. Vairamuthu; P.V. Nidheesh; T.S. Anantha Singh. (2025). Treatment of unregulated open dumping site soil by combined Aloe vera gel washing and electrocoagulation for the removal of microplastics and heavy metals. *Journal of Environmental Chemical Engineering*, 13(2), 115555. <https://doi.org/10.1016/j.jece.2025.115555>
Organic
Year: 2025
126. Panipak Boonsong; Achara Ussawarujikulchai; Benjaphorn Prapagdee; Wanwisa Pansak. (2025). Contamination of microplastics in greenhouse soil subjected to plastic mulching. *Environmental Technology & Innovation*, 37, 103991. <https://doi.org/10.1016/j.eti.2024.103991>
Organic
Year: 2025
127. Muhammad Nauman Hanif; Ian Bartican Benitez. (2025). Soil Pollution in Urban Environments: Sources, Consequences, Potential Mitigation Strategies and the Importance of Sustainable Urban Development. *Water, Air, & Soil Pollution*, 236(14). <https://doi.org/10.1007/s11270-025-08421-0>
Self-citation
Year: 2025
128. Peter Šurda; Karina Lincmaierová; Lenka Botyanszká. (2024). Impact of Different Microplastics on Soil Evaporation Rates: A Comparative Analysis Across Chernozem, Umbrisol, and Luvisol. *Land*, 13(12), 2202. <https://doi.org/10.3390/land13122202>
Organic
Year: 2024
129. Manivannan Vairamuthu; Puthiya Veetil Nidheesh; Anantha Singh Tangappan Sarasvathy. (2024). Microplastic pollution unveiled: the consequences of small unregulated dumping in villages, spanning from soil to water. *Environmental Monitoring and Assessment*, 196(12). <https://doi.org/10.1007/s10661-024-13296-5>
Organic
Year: 2024
130. Xinwei Shi; Ruiying Shi; Xiuping Fu; Yuexing Zhao; Yichen Ge; Jinzheng Liu; Cuihong Chen; Weitao Liu. (2024). Impact of microplastics on plant physiology: A meta-analysis of dose, particle size, and crop type interactions in agricultural ecosystems. *Science of The Total Environment*, 955, 177245. <https://doi.org/10.1016/j.scitotenv.2024.177245>
Organic
Year: 2024
131. Bing Yang; Lin Wu; Wanju Feng; Qi Lin. (2024). Global perspective of ecological risk of plastic pollution on soil microbial communities. *Frontiers in Microbiology*, 15. <https://doi.org/10.3389/fmicb.2024.1468592>
Organic
Year: 2024
132. Tianzhu Shi; Huajie Xu; Changbin Pan; Xiangui Wang; Yuting Jiang; Qiong Li; Ju Guo; Xinliang Mo; Pan Luo; Qilin Fang; Jing Yang. (2024). Distribution, characteristics, and ecological risks of microplastics in the Hongyingzi sorghum production base in China. *Environmental Pollution*, 361, 124866. <https://doi.org/10.1016/j.envpol.2024.124866>

Year: 2024

Organic

133. Chengzhi Liu; Cheng Zong; Shuang Chen; Jiangliang Chu; Yifan Yang; Yong Pan; Beilei Yuan; Huazhong Zhang. (2024). Machine learning-driven QSAR models for predicting the cytotoxicity of five common microplastics. *Toxicology*, 508, 153918. <https://doi.org/10.1016/j.tox.2024.153918>

Organic

Year: 2024

134. Fanny C. D. Berset; Serge Stoll. (2024). Microplastic Contamination in Field-Side Composting in Geneva, Switzerland (CH). *Microplastics*, 3(3), 477-491. <https://doi.org/10.3390/microplastics3030030>

Organic

Year: 2024

135. Milad Mirzaei Aminiyan; Mahdi Shorafa; Ahmad Ali Pourbabaee. (2024). Mitigating the detrimental impacts of low- and high-density polyethylene microplastics using a novel microbial consortium on a soil-plant system: Insights and interactions. *Ecotoxicology and Environmental Safety*, 283, 116805. <https://doi.org/10.1016/j.ecoenv.2024.116805>

Organic

Year: 2024

136. Jacob Eapen, B. (2024). Analysis and estimation of microplastics from landfill leachate in Urban India from 1960 to 2022 [Master Thesis, Diplomatische Akademie Wien, ETIA 16; Technische Universität Wien]. *repositUM*. <https://doi.org/10.34726/hss.2024.123050>

Organic

Year: 2024

#8 — Factors Affecting Nitrogen Use Efficiency (NUE): Meta Analysis

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Citations

1. Satheesh Kumar. MV; C. Rajamanickam; K.G. Sabarinathan; D. Leninraja; Subesh Ranjith Kumar C; K.R. Rajadurai. (2026). INFLUENCE OF EXCESS NITROGEN ON SOIL MICROBIAL COMMUNITIES IN TURFGRASS SYSTEMS. *Genetics and Molecular Research*. <https://doi.org/10.4238/8p1zav46>

Organic

Year: 2026

2. Leila Zare. (2026). Soil's contribution to biogeochemical cycles (water, carbon, nitrogen). The Soil Nexus, 3-39. <https://doi.org/10.1016/b978-0-443-45286-4.00002-x>

Organic

Year: 2026

3. M. N. Hanif; N. K. Abbood; M. Babur; M. Akhtar; H. Sun; K. Azam; M. N. Akhtar; Q. ul Ain. (2026). Microplastics as pesticide vectors in soil: bridging aqueous insights to terrestrial co-contamination risks and ecosystem impacts. International Journal of Environmental Science and Technology, 23(10). <https://doi.org/10.1007/s13762-026-07459-9>

Self-citation

Year: 2026

4. Qi Wu; Hongbo Zhang; Xu Huang; Yang Yang; Aohang Zhou; Fangang Bu; Guimin Xia; Daocai Chi; Zhongxiu Sun. (2026). Coordinated Water-Nitrogen Management Reduces Ammonia Volatilization and CO2 Emissions While Enhancing Carbon Sequestration, Yield, and Nitrogen Use Efficiency in Peanut Cropping Systems. Environmental Technology & Innovation, 105077. <https://doi.org/10.1016/j.eti.2026.105077>

Organic

Year: 2026

5. Qi Wu; Hongbo Zhang; Xu Huang; Yang Yang; Aohang Zhou; Fangang Bu; Guimin Xia; Daocai Chi; Zhongxiu Sun. (2026). Coordinated Water and Nitrogen Management Reduces Ammonia Volatilization and CO2 Emissions While Enhancing Carbon Sequestration, Yield, and Nitrogen Use Efficiency in Peanut Cropping Systems. <https://doi.org/10.2139/ssrn.6791570>

Organic

Year: 2026

6. Yoseph Junedi Nuwa Dhuge Poa; Chuleemas Boonthai Iwai. (2026). Evaluating Vermicompost, Biochar, and Azolla as Soil Amendments for Cadmium Immobilization and Nutrient Enrichment. Agronomy, 16(10), 998. <https://doi.org/10.3390/agronomy16100998>

Organic

Year: 2026

7. Mauz ul Haq; Zaryab Khan; Aman Nawaz; Abd Al Karim Jaafar. (2026). Evaluating biochar's potential to reduce nitrate leaching and enhance wheat (*Triticum aestivum* L.) yield under different nitrogen management practices. Scientific Reports. <https://doi.org/10.1038/s41598-026-53870-0>

Organic

Year: 2026

8. Oluoch, K. C. (2025). Fate of nitrogen fertilizer in rainfed maize systems of tropical highlands of Kenya [Master's thesis, University of Eldoret, Kenya]. University of Eldoret Institutional Repository. <http://erepository.uoeld.ac.ke/handle/123456789/2732>

Organic

Year: 2025

9. Aaron Ohene Boanor; Rose Nimoh Serwaa; Jin Hee Park; Jwakyung Sung. (2025). Impacts of Micro/Nanoplastics on Crop Physiology and Soil Ecosystems: A Review. Soil Systems, 10(1), 2. <https://doi.org/10.3390/soilsystems10010002>

10. Kailu Gao; Yan Yang; Xiaoyuan Xu; Hao Wang; Huiqing Jiao; Lingling Hua; Tiantian Wang; Xinzhong Du; Hongda Wen; Gaofei Yin; Wenchao Li. (2025). Rainfall differentiates the contributions of soil profiles to groundwater nitrate contamination. <https://doi.org/10.2139/ssrn.5642336>

11. Muhammad Nauman Hanif; Ian Bartican Benitez. (2025). Soil Pollution in Urban Environments: Sources, Consequences, Potential Mitigation Strategies and the Importance of Sustainable Urban Development. *Water, Air, & Soil Pollution*, 236(14). <https://doi.org/10.1007/s11270-025-08421-0>

12. Fatima Zahra Ben Debbane; Aziz Baidani; Maria Aarbaoui; Rachid Moussadek; Rachid Mrabet; Ali Amamou. (2025). Exploring Nitrogen Use Efficiency in Cereals: Insight into Traits, Metabolism, and Management Strategies Under Climate Change Conditions – A Comprehensive Review. *Journal of Soil Science and Plant Nutrition*, 25(2), 3774-3796. <https://doi.org/10.1007/s42729-025-02366-3>

13. Jacob Eapen, B. (2024). Analysis and estimation of microplastics from landfill leachate in Urban India from 1960 to 2022 [Master Thesis, Diplomatiche Akademie Wien, ETIA 16; Technische Universität Wien]. [repositUM. https://doi.org/10.34726/hss.2024.123050](https://doi.org/10.34726/hss.2024.123050)

14. Firdes Ulas; Yusuf Cem Yücel; Abdullah Ulas. (2024). Physio-Morphological Traits Contributing to Genotypic Differences in Nitrogen Use Efficiency of Leafy Vegetable Species under Low N Stress. *Horticulturae*, 10(9), 984. <https://doi.org/10.3390/horticulturae10090984>

15. M. N. Hanif; N. Aijaz; K. Azam; M. Akhtar; W. A. Laftah; M. Babur; N. K. Abbood; I. B. Benitez. (2024). Impact of microplastics on soil (physical and chemical) properties, soil biological properties/soil biota, and response of plants to it: a review. *International Journal of Environmental Science and Technology*, 21(16), 10277-10318. <https://doi.org/10.1007/s13762-024-05656-y>