# The global odyssey of plastic pollution

Science

368, 1184-1185

DOI: 10.1126/science.abc4428

Citation Report

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Plastic and plants. Nature Sustainability, 2020, 3, 887-888. | 11.5 | 40 |
| 2 | Assessment of Human Health Risks Posed by Nano-and Microplastics Is Currently Not Feasible. International Journal of Environmental Research and Public Health, 2020, 17, 8832. | 1.2 | 45 |
| 3 | The long-term legacy of plastic mass production. Science of the Total Environment, 2020, 746, 141115. | 3.9 | 73 |
| 4 | Profiling the Vertical Transport of Microplastics in the West Pacific Ocean and the East Indian Ocean with a Novel in Situ Filtration Technique. Environmental Science & Technology, 2020, 54, 12979-12988. | 4.6 | 60 |
| 5 | Airborne microplastic particles detected in the remote marine atmosphere. Communications Earth & Environment, 2020, 1, . | 2.6 | 131 |
| 6 | Microplastics in the coral reefs and their potential impacts on corals: A mini-review. Science of the Total Environment, 2021, 762, 143112. | 3.9 | 95 |
| 7 | Microplastics and Their Degradation Products in Surface Waters: A Missing Piece of the Global Carbon Cycle Puzzle. ACS ES&T Water, 2021, 1, 214-216. | 2.3 | 18 |
| 8 | â€œMicroplastic communitiesâ€•in different environments: Differences, links, and role of diversity index in source analysis. Water Research, 2021, 188, 116574. | 5.3 | 119 |
| 9 | An Environmental Dilemma for China During the COVID-19 Pandemic: The Explosion of Disposable Plastic Wastes. Bulletin of Environmental Contamination and Toxicology, 2021, 106, 237-240. | 1.3 | 22 |
| 10 | SARS-CoV-2 pandemic-induced PPE and single-use plastic waste generation scenario. Waste Management and Research, 2021, 39, 3-17. | 2.2 | 51 |
| 11 | Determinants of smallholder farmersâ€™ choice on mulch film thickness in rural China. Environmental Science and Pollution Research, 2021, 28, 45545-45556. | 2.7 | 11 |
| 12 | Constraining the atmospheric limb of the plastic cycle. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 232 |
| 13 | Microplastic in angling baits as a cryptic source of contamination in European freshwaters. Scientific Reports, 2021, 11, 11255. | 1.6 | 12 |
| 14 | Environmental village regulations matter: Mulch film recycling in rural China. Journal of Cleaner Production, 2021, 299, 126796. | 4.6 | 37 |
| 15 | Can bioplastics be treated in conventional anaerobic digesters for food waste treatment?. Environmental Technology and Innovation, 2021, 22, 101393. | 3.0 | 56 |
| 16 | Environmental factors-mediated behavior of microplastics and nanoplastics in water: A review. Chemosphere, 2021, 271, 129597. | 4.2 | 68 |
| 17 | Degradation of synthetic and wood-based cellulose fabrics in the marine environment: Comparative assessment of field, aquarium, and bioreactor experiments. Science of the Total Environment, 2021, 791, 148060. | 3.9 | 17 |
| 18 | A Maze in Plastic Wastes: Autonomous Motile Photocatalytic Microrobots against Microplastics. ACS Applied Materials & Interfaces, 2021, 13, 25102-25110. | 4.0 | 53 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Urbanization and hydrological conditions drive the spatial and temporal variability of microplastic pollution in the Garonne River. Science of the Total Environment, 2021, 769, 144479. | 3.9 | 67 |
| 20 | Low-pressure hydrothermal processing of mixed polyolefin wastes into clean fuels. Fuel, 2021, 294, 120505. | 3.4 | 17 |
| 21 | Three-Dimensional Fluorescent Imaging to Identify Multi-Paths in Polymer Aging. Analytical Chemistry, 2021, 93, 10301-10309. | 3.2 | 6 |
| 22 | The missing ocean plastic sink: Gone with the rivers. Science, 2021, 373, 107-111. | 6.0 | 146 |
| 23 | Temperate UV-Accelerated Weathering Cycle Combined with HT-GPC Analysis and Drop Point Testing for Determining the Environmental Instability of Polyethylene Films. Polymers, 2021, 13, 2373. | 2.0 | 2 |
| 24 | Fish Ingest Microplastics Unintentionally. Environmental Science & Technology, 2021, 55, 10471-10479. | 4.6 | 116 |
| 25 | Plastic ingestion as an evolutionary trap: Toward a holistic understanding. Science, 2021, 373, 56-60. | 6.0 | 182 |
| 26 | Microplastics accumulate fungal pathogens in terrestrial ecosystems. Scientific Reports, 2021, 11, 13214. | 1.6 | 95 |
| 27 | Plastics in biosolids from 1950 to 2016: A function of global plastic production and consumption. Water Research, 2021, 201, 117367. | 5.3 | 77 |
| 28 | Microplastic Pollution in the Surface Waters from Plain and Mountainous Lakes in Siberia, Russia. Water (Switzerland), 2021, 13, 2287. | 1.2 | 20 |
| 29 | Plastic Impacts in Argentina: a Critical Research Review Contributing to the Global Knowledge. Current Environmental Health Reports, 2021, 8, 212-222. | 3.2 | 11 |
| 30 | Characterization of microplastics in indoor and ambient air in northern New Jersey. Environmental Research, 2022, 207, 112142. | 3.7 | 78 |
| 31 | Microplastics as an emerging source of particulate air pollution: A critical review. Journal of Hazardous Materials, 2021, 418, 126245. | 6.5 | 155 |
| 32 | Influencing factors of farmers' cognition on agricultural mulch film pollution in rural China. Science of the Total Environment, 2021, 787, 147702. | 3.9 | 67 |
| 33 | Chitinase digestion for the analysis of microplastics in chitinaceous organisms using the terrestrial isopod Oniscus asellus L. as a model organism. Science of the Total Environment, 2021, 786, 147455. | 3.9 | 14 |
| 34 | Exploring the multiple land degradation pathways across the planet. Earth-Science Reviews, 2021, 220, 103689. | 4.0 | 104 |
| 35 | The extraction of microplastics from sediments: An overview of existing methods and the proposal of a new and green alternative. Chemosphere, 2021, 278, 130357. | 4.2 | 53 |
| 36 | Effects of pristine microplastics and nanoplastics on soil invertebrates: A systematic review and meta-analysis of available data. Science of the Total Environment, 2021, 788, 147784. | 3.9 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Exposure to heavy metal and antibiotic enriches antibiotic resistant genes on the tire particles in soil. Science of the Total Environment, 2021, 792, 148417. | 3.9 | 21 |
| 38 | Effects of nano- or microplastic exposure combined with arsenic on soil bacterial, fungal, and protistan communities. Chemosphere, 2021, 281, 130998. | 4.2 | 37 |
| 39 | Effects of microplastics derived from polymer-coated fertilizer on maize growth, rhizosphere, and soil properties. Journal of Cleaner Production, 2021, 318, 128571. | 4.6 | 101 |
| 40 | Facile one-step fabrication of all cellulose composites with unique optical performance from wood and bamboo pulp. Carbohydrate Polymers, 2021, 274, 118630. | 5.1 | 21 |
| 41 | Micro(nano)plastics as an emerging risk factor to the health of amphibian: A scientometric and systematic review. Chemosphere, 2021, 283, 131090. | 4.2 | 31 |
| 42 | Floating plastics in oceans: A matter of size. Current Opinion in Green and Sustainable Chemistry, 2021, 32, 100543. | 3.2 | 1 |
| 43 | Continental microplastics: Presence, features, and environmental transport pathways. Science of the Total Environment, 2021, 799, 149447. | 3.9 | 51 |
| 44 | Genotoxic effect of microplastics and COVID-19: The hidden threat. Chemosphere, 2022, 286, 131898. | 4.2 | 27 |
| 45 | Floating plastics and their associated biota in the Western South Atlantic. Science of the Total Environment, 2022, 805, 150186. | 3.9 | 22 |
| 46 | Preliminary Screening for Microplastic Concentrations in the Surface Water of the Ob and Tom Rivers in Siberia, Russia. Sustainability, 2021, 13, 80. | 1.6 | 30 |
| 47 | The synthesis of degradable sulfur-containing polymers: precise control of structure and stereochemistry. Polymer Chemistry, 2021, 12, 6650-6666. | 1.9 | 32 |
| 48 | The fiber microparticle pipeline in the marine water column â€“ from source to mitigation strategies. Environmental Advances, 2022, 7, 100133. | 2.2 | 2 |
| 49 | A review of the use of microplastics in reconstructing dated sedimentary archives. Science of the Total Environment, 2022, 806, 150818. | 3.9 | 28 |
| 50 | Understanding the hazards induced by microplastics in different environmental conditions. Journal of Hazardous Materials, 2022, 424, 127630. | 6.5 | 23 |
| 51 | Microplastics in freshwater: A global review of factors affecting spatial and temporal variations. Environmental Pollution, 2022, 292, 118393. | 3.7 | 129 |
| 52 | Microglial phagocytosis of polystyrene microplastics results in immune alteration and apoptosis in vitro and in vivo. Science of the Total Environment, 2022, 807, 150817. | 3.9 | 63 |
| 53 | A comparison of spectroscopic analysis methods for microplastics: Manual, semi-automated, and automated Fourier transform infrared and Raman techniques. Marine Pollution Bulletin, 2021, 173, 113101. | 2.3 | 27 |
| 54 | Microplastic pollution in wild populations of decapod crustaceans: A review. Chemosphere, 2022, 291, 132985. | 4.2 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Ecotoxicity of microplastics to freshwater biota: Considering exposure and hazard across trophic levels. Science of the Total Environment, 2022, 816, 151638. | 3.9 | 46 |
| 56 | Steam disinfection releases micro(nano)plastics from silicone-rubber baby teats as examined by optical photothermal infrared microspectroscopy. Nature Nanotechnology, 2022, 17, 76-85. | 15.6 | 82 |
| 57 | Inputs, Occurrence and Effects of Pharmaceuticals and Microplastics in Freshwater Ecosystems. , 2021, , . | | 0 |
| 58 | Environmental fate of microplastics in the world's third-largest river: Basin-wide investigation and microplastic community analysis. Water Research, 2022, 210, 118002. | 5.3 | 96 |
| 59 | Microplastics can selectively enrich intracellular and extracellular antibiotic resistant genes and shape different microbial communities in aquatic systems. Science of the Total Environment, 2022, 822, 153488. | 3.9 | 20 |
| 60 | Assessment of seasonal variability of input of microplastics from the Northern Dvina River to the Arctic Ocean. Marine Pollution Bulletin, 2022, 175, 113370. | 2.3 | 25 |
| 61 | Reshaping the Module: The Path to Comprehensive Photovoltaic Panel Recycling. Sustainability, 2022, 14, 1676. | 1.6 | 12 |
| 62 | Microplastics in ecosystems: their implications and mitigation pathways. Environmental Science Advances, 2022, 1, 9-29. | 1.0 | 27 |
| 63 | Review of microplastic sources, transport pathways and correlations with other soil stressors: a journey from agricultural sites into the environment. Chemical and Biological Technologies in Agriculture, 2022, 9, . | 1.9 | 69 |
| 64 | Characteristics and spatiotemporal distribution of microplastics in sediments from a typical mariculture pond area in Qingduizi Bay, North Yellow Sea, China. Marine Pollution Bulletin, 2022, 176, 113436. | 2.3 | 11 |
| 65 | Boron-doped carbon nanoparticles for identification and tracing of microplastics in â€œTurn-onâ€• fluorescence mode. Chemical Engineering Journal, 2022, 435, 135075. | 6.6 | 14 |
| 66 | Biofilm Assemblage and Activity on Plastic in Urban Streams at a Continental Scale: Site Characteristics are More Important than Substrate Type. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 67 | Polystyrene Microplastics Exacerbates Experimental Colitis in Mice Tightly Associated with the Occurrence of Hepatic Inflammation. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 68 | Linking the physical and chemical characteristics of single small microplastics or nanoplastics via photolithographic silicon substrates. Analytical Methods, 2022, 14, 1547-1552. | 1.3 | 2 |
| 69 | Nanoplastic State and Fate in Aquatic Environments: Multiscale Modeling. Environmental Science & Technology, 2022, 56, 4017-4028. | 4.6 | 24 |
| 70 | Forest 404: Using a BBC drama series to explore the impact of natureâ€™s changing soundscapes on human wellbeing and behavior. Global Environmental Change, 2022, 74, 102497. | 3.6 | 9 |
| 71 | Mechanically Robust Supramolecular Plastics with Energy-Saving and Highly Efficient Closed-Loop Recyclability. Macromolecules, 2022, 55, 2557-2565. | 2.2 | 22 |
| 72 | An ecosystem-scale litter and microplastics monitoring plan under the Arctic Monitoring and Assessment Programme (AMAP). Arctic Science, 0, , . | 0.9 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Accelerated Degradation of Poly(lactide acid)/Poly(hydroxybutyrate) (PLA/PHB) Yarns/Fabrics by UV and O2 Exposure in South China Seawater. Polymers, 2022, 14, 1216. | 2.0 | 11 |
| 74 | Production of Biodegradable Bioplastics Filled with Jordanian Olive Tree Leaves. Chemical Engineering and Technology, 0, , . | 0.9 | 0 |
| 75 | Mugilidae fish as bioindicator for monitoring plastic pollution: Comparison between a commercial port and a fishpond (north-western Mediterranean Sea). Marine Pollution Bulletin, 2022, 177, 113531. | 2.3 | 6 |
| 76 | Polyester microplastic fibers in soil increase nitrogen loss via leaching and decrease plant biomass production and N uptake. Environmental Research Letters, 2022, 17, 054012. | 2.2 | 41 |
| 77 | Two types of microplastics (polystyrene-HBCD and car tire abrasion) affect oxidative stress-related biomarkers in earthworm Eisenia andrei in a time-dependent manner. Environment International, 2022, 163, 107190. | 4.8 | 38 |
| 78 | Polyethylene microplastics alter the microbial functional gene abundances and increase nitrous oxide emissions from paddy soils. Journal of Hazardous Materials, 2022, 432, 128721. | 6.5 | 63 |
| 79 | Machine learning may accelerate the recognition and control of microplastic pollution: Future prospects. Journal of Hazardous Materials, 2022, 432, 128730. | 6.5 | 17 |
| 80 | Emerging microplastics in the environment: Properties, distributions, and impacts. Chemosphere, 2022, 297, 134118. | 4.2 | 43 |
| 81 | Atmospheric microplastics in the Northwestern Pacific Ocean: Distribution, source, and deposition. Science of the Total Environment, 2022, 829, 154337. | 3.9 | 53 |
| 82 | A review of analytical methods and models used in atmospheric microplastic research. Science of the Total Environment, 2022, 828, 154487. | 3.9 | 43 |
| 83 | Understanding the plastics cycle to minimize exposure. Nature Sustainability, 2022, 5, 282-284. | 11.5 | 18 |
| 84 | Sustainable Multiscale High-Haze Transparent Cellulose Fiber Film via a Biomimetic Approach. , 2022, 4, 87-92. | | 32 |
| 85 | Biofilm assemblage and activity on plastic in urban streams at a continental scale: Site characteristics are more important than substrate type. Science of the Total Environment, 2022, 835, 155398. | 3.9 | 8 |
| 86 | Consumption of low-density polyethylene, polypropylene, and polystyrene materials by larvae of the greater wax moth, Galleria mellonella L. (Lepidoptera, Pyralidae), impacts on their ontogeny. Environmental Science and Pollution Research, 2022, 29, 68132-68142. | 2.7 | 4 |
| 87 | Microplastics in Flathead Lake, a large oligotrophic mountain lake in the USA. Environmental Pollution, 2022, 306, 119445. | 3.7 | 19 |
| 88 | The United Nations General Assembly Passes Historic Resolution to Beat Plastic Pollution. Anthropocene Science, 2022, 1, 332-336. | 1.6 | 7 |
| 89 | An enlarging ecological risk: Review on co-occurrence and migration of microplastics and microplastic-carrying organic pollutants in natural and constructed wetlands. Science of the Total Environment, 2022, 837, 155772. | 3.9 | 19 |
| 90 | Evaluating the knowledge structure of micro- and nanoplastics in terrestrial environment through scientometric assessment. Applied Soil Ecology, 2022, 177, 104507. | 2.1 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Microplastics in urban soils of Nanjing in eastern China: Occurrence, relationships, and sources. Chemosphere, 2022, 303, 134999. | 4.2 | 20 |
| 92 | High-Temperature Soup Foods in Plastic Packaging Are Associated with Phthalate Body Burden and Expression of Inflammatory mRNAs: A Dietary Intervention Study. Environmental Science & Technology, 2022, 56, 8416-8427. | 4.6 | 2 |
| 93 | Hierarchically Structured Hydrogel Actuator for Microplastic Pollutant Detection and Removal. Chemistry of Materials, 2022, 34, 5165-5175. | 3.2 | 21 |
| 94 | Integrated effects of polymer type, size and shape on the sinking dynamics of biofouled microplastics. Water Research, 2022, 220, 118656. | 5.3 | 20 |
| 95 | Spatial Patterns of Microplastics in Surface Seawater, Sediment, and Sand Along Qingdao Coastal Environment. Frontiers in Marine Science, 2022, 9, . | 1.2 | 6 |
| 96 | Sustainable and Highly Efficient Recycling of Plastic Waste into Syngas via a Chemical Looping Scheme. Environmental Science & Technology, 2022, 56, 8953-8963. | 4.6 | 15 |
| 97 | High abundance of microplastics in groundwater in Jiaodong Peninsula, China. Science of the Total Environment, 2022, 839, 156318. | 3.9 | 24 |
| 98 | Toxicity of nanoplastics to zooplankton is influenced by temperature, salinity, and natural particulate matter. Environmental Science: Nano, 2022, 9, 2678-2690. | 2.2 | 10 |
| 99 | Polystyrene microplastics exacerbate experimental colitis in mice tightly associated with the occurrence of hepatic inflammation. Science of the Total Environment, 2022, 844, 156884. | 3.9 | 18 |
| 100 | Precise Tailoring of Polyester Bottlebrush Amphiphiles toward Ecoâ€Friendly Photonic Pigments via Interfacial Selfâ€Assembly. Angewandte Chemie, 2022, 134, . | 1.6 | 2 |
| 101 | Precise Tailoring of Polyester Bottlebrush Amphiphiles toward Ecoâ€Friendly Photonic Pigments via Interfacial Selfâ€Assembly. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 13 |
| 102 | Ontogenetic Transfer of Microplastics in Bloodsucking Mosquitoes Aedes aegypti L. (Diptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 1 2022, 14, 1852. | 1.2 | 8 |
| 103 | Photocatalytic upcycling of poly(ethylene terephthalate) plastic to high-value chemicals. Applied Catalysis B: Environmental, 2022, 316, 121662. | 10.8 | 40 |
| 104 | The Use of Non-Plastic Materials for Oyster Reef and Shoreline Restoration: Understanding What Is Needed and Where the Field Is Headed. Sustainability, 2022, 14, 8055. | 1.6 | 6 |
| 105 | Modifications of microplastics in urban environmental management systems: A review. Water Research, 2022, 222, 118843. | 5.3 | 13 |
| 106 | Impact of waste of COVID-19 protective equipment on the environment, animals and human health: a review. Environmental Chemistry Letters, 2022, 20, 2951-2970. | 8.3 | 24 |
| 107 | Recent advances on the transport of microplastics/nanoplastics in abiotic and biotic compartments. Journal of Hazardous Materials, 2022, 438, 129515. | 6.5 | 46 |
| 108 | The impact of particle size and photoaging on the leaching of phthalates from plastic waste. Journal of Cleaner Production, 2022, 367, 133109. | 4.6 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Deciphering the Mechanisms Shaping the Plastisphere Microbiota in Soil. MSystems, 2022, 7, . | 1.7 | 37 |
| 110 | Temporal trends in anthropogenic marine macro-debris and micro-debris accumulation on the California Channel Islands. Frontiers in Marine Science, 0, 9, . | 1.2 | 3 |
| 111 | Leachable Additives of Tire Particles Explain the Shift in Microbial Community Composition and Function in Coastal Sediments. Environmental Science & Technology, 2022, 56, 12257-12266. | 4.6 | 25 |
| 112 | Plastic and other anthropogenic debris in Arctic fox (Vulpes lagopus) faeces from Iceland. Polar Biology, 2022, 45, 1403-1413. | 0.5 | 4 |
| 113 | Microplastics in Agricultural Systems: Analytical Methodologies and Effects on Soil Quality and Crop Yield. Agriculture (Switzerland), 2022, 12, 1162. | 1.4 | 13 |
| 114 | Macro-and/or microplastics as an emerging threat effect crop growth and soil health. Resources, Conservation and Recycling, 2022, 186, 106549. | 5.3 | 42 |
| 115 | Unraveling consequences of the co-exposure of polyethylene microplastics and acid rain on plant-microbe-soil system. Chemosphere, 2022, 307, 135941. | 4.2 | 8 |
| 116 | Screening of Đœicroplastic Đ¡ontent in Surface Waters of Russian Rivers. Ecology and Industry of Russia, 2022, 26, 67-71. | 0.2 | 0 |
| 117 | Remediation technology towards zero plastic pollution: Recent advance and perspectives. Environmental Pollution, 2022, 313, 120166. | 3.7 | 5 |
| 118 | Polyethylene mulching film degrading bacteria within the plastisphere: Co-culture of plastic degrading strains screened by bacterial community succession. Journal of Hazardous Materials, 2023, 442, 130045. | 6.5 | 16 |
| 119 | Nanoplastics induce molecular toxicity in earthworm: Integrated multi-omics, morphological, and intestinal microorganism analyses. Journal of Hazardous Materials, 2023, 442, 130034. | 6.5 | 29 |
| 120 | Discrepant impact of polyethylene microplastics on methane emissions from different paddy soils. Applied Soil Ecology, 2023, 181, 104650. | 2.1 | 12 |
| 121 | Differences, links, and roles of microbial and stoichiometric factors in microplastic distribution: A case study of five typical rice cropping regions in China. Frontiers in Microbiology, 0, 13, . | 1.5 | 3 |
| 122 | Climate change impacts the vertical structure of marine ecosystem thermal ranges. Nature Climate Change, 2022, 12, 935-942. | 8.1 | 10 |
| 123 | Can microplastics mediate soil properties, plant growth and carbon/nitrogen turnover in the terrestrial ecosystem?. Ecosystem Health and Sustainability, 2022, 8, . | 1.5 | 14 |
| 124 | Egestion rates of microplastic fibres in fish scaled to in situ concentration and fish density. Freshwater Biology, 2023, 68, 33-45. | 1.2 | 2 |
| 125 | Accumulation of microplastics in fugu (Takifugu bimaculatus): A comparative study between fishing grounds and aquafarms. Marine Pollution Bulletin, 2022, 185, 114200. | 2.3 | 8 |
| 126 | Potentials of mycosynthesized nanomaterials for efficient remediation of environmental contaminants. , 2023, , 693-724. | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Ability of benthic oligochaetes to bury microplastics in aquatic bottom sediments. Science of the Total Environment, 2023, 857, 159687. | 3.9 | 4 |
| 128 | Microbial community shifts induced by plastic and zinc as substitutes of tire abrasion. Scientific Reports, 2022, 12, . | 1.6 | 2 |
| 129 | Anaerobic co-digestion of three commercial bio-plastic bags with food waste: Effects on methane production and microbial community structure. Science of the Total Environment, 2023, 859, 159967. | 3.9 | 13 |
| 131 | Positively Charged Microplastics Induce Strong Lettuce Stress Responses from Physiological, Transcriptomic, and Metabolomic Perspectives. Environmental Science & Technology, 2022, 56, 16907-16918. | 4.6 | 28 |
| 132 | Current advances in interactions between microplastics and dissolved organic matters in aquatic and terrestrial ecosystems. TrAC - Trends in Analytical Chemistry, 2023, 158, 116882. | 5.8 | 24 |
| 133 | Runoff and discharge pathways of microplastics into freshwater ecosystems: A systematic review and meta-analysis. Facets, 2022, 7, 1473-1492. | 1.1 | 3 |
| 135 | Marine Solid Pollutionâ€"From Macroplastics to Nanoplastics. , 2023, , 63-110. | | 0 |
| 136 | Plastic recycling plant as a point source of microplastics to sediment and macroinvertebrates in a remote stream. Microplastics and Nanoplastics, 2022, 2, . | 4.1 | 2 |
| 137 | Spatiotemporal variability of microplastics in Muskoka-Haliburton headwater lakes, Ontario, Canada. Environmental Earth Sciences, 2022, 81, . | 1.3 | 4 |
| 138 | Microfiber Pollution in the Earth System. Reviews of Environmental Contamination and Toxicology, 2022, 260, . | 0.7 | 3 |
| 139 | Microplastics in Freshwater: A Focus on the Russian Inland Waters. Water (Switzerland), 2022, 14, 3909. | 1.2 | 6 |
| 140 | Current status of the direct detection of microplastics in environments and implications for toxicological effects. Chemical Engineering Journal Advances, 2023, 14, 100449. | 2.4 | 11 |
| 141 | Abundances of agricultural microplastics and their contribution to the soil organic carbon pool in plastic film mulching fields of Xinjiang, China. Chemosphere, 2023, 316, 137837. | 4.2 | 8 |
| 142 | Reengineering Waste Boxwood Powder into Light and High-Strength Biodegradable Composites to Replace Petroleum-Based Synthetic Materials. ACS Applied Materials & Interfaces, 2023, 15, 4505-4515. | 4.0 | 5 |
| 143 | Recovery of epoxy thermosets and their composites. Materials Today, 2023, 64, 72-97. | 8.3 | 35 |
| 144 | Environmental mycology in the Philippines. , 2023, , 235-268. | | 0 |
| 145 | A global perspective on microplastic bioaccumulation in marine organisms. Ecological Indicators, 2023, 149, 110179. | 2.6 | 14 |
| 146 | Identification of factors influencing the microplastic distribution in agricultural soil on Hainan Island. Science of the Total Environment, 2023, 874, 162426. | 3.9 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 147 | In-situ and real-time nano/microplastic coatings and dynamics in water using nano-DIHM: A novel capability for the plastic life cycle research. Water Research, 2023, 235, 119898. | 5.3 | 4 |
| 148 | Effects of microplastics and nitrogen deposition on soil multifunctionality, particularly C and N cycling. Journal of Hazardous Materials, 2023, 451, 131152. | 6.5 | 29 |
| 149 | Important effects of polypropylene on migration of ciprofloxacin in groundwater. Journal of Environmental Chemical Engineering, 2023, 11, 109847. | 3.3 | 0 |
| 150 | Microplastics exacerbate co-occurrence and horizontal transfer of antibiotic resistance genes. Journal of Hazardous Materials, 2023, 451, 131130. | 6.5 | 20 |
| 151 | Pollution concerns in mariculture water and cultured economical bivalves: Occurrence of microplastics under different aquaculture modes. Journal of Cleaner Production, 2023, 406, 136913. | 4.6 | 15 |
| 152 | Micro(nano)plastics in the atmosphere of the Atlantic Ocean. Journal of Hazardous Materials, 2023, 450, 131036. | 6.5 | 11 |
| 153 | Tiâ€“Fe2O3/Ni(OH) as an efficient and durable photoanode for the photoelectrochemical catalysis of PET plastic to formic acid. Journal of Energy Chemistry, 2023, 78, 487-496. | 7.1 | 16 |
| 154 | Process-oriented impacts of microplastic fibers on behavior and histology of fish. Journal of Hazardous Materials, 2023, 448, 130856. | 6.5 | 23 |
| 155 | Carbon Dots Based Photoinduced Reactions: Advances and Perspective. Advanced Science, 2023, 10, . | 5.6 | 20 |
| 156 | Metal Release from Microplastics to Soil: Effects on Soil Enzymatic Activities and Spinach Production. International Journal of Environmental Research and Public Health, 2023, 20, 3106. | 1.2 | 3 |
| 157 | Cyanobacteria control using Cu-based metal organic frameworks derived from waste PET bottles. Environmental Research, 2023, 224, 115532. | 3.7 | 5 |
| 158 | Analysis of the Scale of Global Human Needs and Opportunities for Sustainable Catalytic Technologies. Topics in Catalysis, 2023, 66, 338-374. | 1.3 | 6 |
| 159 | Waste, Environment, and Sanitary Issues: Are They Really at Odds?. Earth and Environmental Sciences Library, 2023, , 259-295. | 0.3 | 0 |
| 160 | Dose effect of polyethylene microplastics on nitrous oxide emissions from paddy soils cultivated for different periods. Journal of Hazardous Materials, 2023, 453, 131445. | 6.5 | 11 |
| 171 | Observing and monitoring the ocean. , 2023, , 549-596. | | 2 |
| 178 | The soil plastisphere. Nature Reviews Microbiology, 2024, 22, 64-74. | 13.6 | 9 |