

Microplastics in freshwater systems: A review on occurrence and methods for microplastics detection

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Microplastics in Sediment and Surface Water of West Dongting Lake and South Dongting Lake: Abundance, Source and Composition. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2164.	1.2	118
2	Microplastic pollution in surface sediments of urban water areas in Changsha, China: Abundance, composition, surface textures. <i>Marine Pollution Bulletin</i> , 2018, 136, 414-423.	2.3	183
3	Humic acids modify the pulse size distributions in the characterization of plastic microparticles by Tunable Resistive Pulse Sensing. <i>Journal of Contaminant Hydrology</i> , 2018, 218, 59-69.	1.6	1
4	Microplastics pollution in different aquatic environments and biota: A review of recent studies. <i>Marine Pollution Bulletin</i> , 2018, 133, 191-208.	2.3	441
5	Freshwater plastic pollution: Recognizing research biases and identifying knowledge gaps. <i>Water Research</i> , 2018, 143, 416-424.	5.3	420
6	Microplastics in Small Waterbodies and Tadpoles from Yangtze River Delta, China. <i>Environmental Science & Technology</i> , 2018, 52, 8885-8893.	4.6	188
7	Optimization, performance, and application of a pyrolysis-GC/MS method for the identification of microplastics. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6663-6676.	1.9	196
8	Recent advances in covalent organic frameworks for separation and analysis of complex samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 98-109.	5.8	78
9	Identification of microplastics using Raman spectroscopy: Latest developments and future prospects. <i>Water Research</i> , 2018, 142, 426-440.	5.3	512
10	Adsorption behavior of organic pollutants and metals on micro/nanoplastics in the aquatic environment. <i>Science of the Total Environment</i> , 2019, 694, 133643.	3.9	378
11	The marine nano- and microplastics characterisation by SEM-EDX: The potential of the method in comparison with various physical and chemical approaches. <i>Marine Pollution Bulletin</i> , 2019, 148, 210-216.	2.3	124
12	On the representativeness of pump water samples versus manta sampling in microplastic analysis. <i>Environmental Pollution</i> , 2019, 254, 112970.	3.7	81
13	Current practices and future perspectives of microplastic pollution in freshwater ecosystems in China. <i>Science of the Total Environment</i> , 2019, 691, 697-712.	3.9	162
14	Particulate plastics as a vector for toxic trace-element uptake by aquatic and terrestrial organisms and human health risk. <i>Environment International</i> , 2019, 131, 104937.	4.8	337
15	Distribution and characteristics of microplastics in the sediments of Poyang Lake, China. <i>Water Science and Technology</i> , 2019, 79, 1868-1877.	1.2	64
16	Simplifying Microplastic via Continuous Probability Distributions for Size, Shape, and Density. <i>Environmental Science and Technology Letters</i> , 2019, 6, 551-557.	3.9	335
17	Revealing the Mechanisms of Polyethylene Microplastics Affecting Anaerobic Digestion of Waste Activated Sludge. <i>Environmental Science & Technology</i> , 2019, 53, 9604-9613.	4.6	199
18	Microplastics contamination in different trophic state lakes along the middle and lower reaches of Yangtze River Basin. <i>Environmental Pollution</i> , 2019, 254, 112951.	3.7	123

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19	Research on ecotoxicology of microplastics on freshwater aquatic organisms. <i>Environmental Pollutants and Bioavailability</i> , 2019, 31, 131-137.	1.3	50
20	Acute effects of nanoplastics and microplastics on periphytic biofilms depending on particle size, concentration and surface modification. <i>Environmental Pollution</i> , 2019, 255, 113300.	3.7	100
21	Morphology and chemical properties of polypropylene pellets degraded in simulated terrestrial and marine environments. <i>Marine Pollution Bulletin</i> , 2019, 149, 110626.	2.3	46
22	Influence of the crystalline structure on the fragmentation of weathered polyolefines. <i>Polymer Degradation and Stability</i> , 2019, 170, 109012.	2.7	63
23	Environmental occurrences, fate, and impacts of microplastics. <i>Ecotoxicology and Environmental Safety</i> , 2019, 184, 109612.	2.9	259
24	FTIR and Raman imaging for microplastics analysis: State of the art, challenges and prospects. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 119, 115629.	5.8	301
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27	Temperature and clone-dependent effects of microplastics on immunity and life history in <i>Daphnia magna</i> . <i>Environmental Pollution</i> , 2019, 255, 113178.	3.7	47
28	Wastewater treatment plants as a source of plastics in the environment: a review of occurrence, methods for identification, quantification and fate. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1908-1931.	1.2	112
29	Combination of sodium hypochlorite pretreatment and flotation towards separation of polycarbonate from waste plastic mixtures. <i>Waste Management</i> , 2019, 99, 112-121.	3.7	12
30	Sampling techniques and preparation methods for microplastic analyses in the aquatic environment – A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 113, 84-92.	5.8	248
31	Microplastic biofilm in fresh- and wastewater as a function of microparticle type and size class. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 495-505.	1.2	97
32	Degradation of Low-Density Polyethylene Film Exposed to UV Radiation in Four Environments. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2019, 23, .	1.2	46
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35	Scalable Synthesis of Mesoporous TiO ₂ for Environmental Photocatalytic Applications. <i>Materials</i> , 2019, 12, 1853.	1.3	42
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37	Recent NMR/MRI studies of biofilm structures and dynamics. <i>Annual Reports on NMR Spectroscopy</i> , 2019, 97, 163-213.	0.7	9

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39	Identification and visualisation of microplastics by Raman mapping. <i>Analytica Chimica Acta</i> , 2019, 1077, 191-199.	2.6	145
40	Spatiotemporal distribution and annual load of microplastics in the Nakdong River, South Korea. <i>Water Research</i> , 2019, 160, 228-237.	5.3	335
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44	Occurrence and identification of microplastics along a beach in the Biosphere Reserve of Lanzarote. <i>Marine Pollution Bulletin</i> , 2019, 143, 220-227.	2.3	87
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46	Microplastics in drinking water treatment – Current knowledge and research needs. <i>Science of the Total Environment</i> , 2019, 667, 730-740.	3.9	263
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154	Mapping ecological impact of microplastics on freshwater habitat in the central region of Ghana: a case study of River Akora. <i>Geo Journal</i> , 2022, 87, 621-639.	1.7	13
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468	Size-dependent effects of polystyrene nanoplastics on autophagy response in human umbilical vein endothelial cells. <i>Journal of Hazardous Materials</i> , 2022, 421, 126770.	6.5	57
469	Extraction and detection methods of microplastics in food and marine systems: A critical review. <i>Chemosphere</i> , 2022, 286, 131653.	4.2	66
470	Microplastics in China Sea: Analysis, status, source, and fate. <i>Science of the Total Environment</i> , 2022, 803, 149887.	3.9	39
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