

# Abundance, size and polymer composition of marine microplastics in the North Atlantic Ocean and their modelled vertical distribution

Marine Pollution Bulletin

100, 70-81

DOI: [10.1016/j.marpolbul.2015.09.027](https://doi.org/10.1016/j.marpolbul.2015.09.027)

Citation Report

#	ARTICLE	IF	CITATIONS
2	A critical assessment of visual identification of marine microplastic using Raman spectroscopy for analysis improvement. <i>Marine Pollution Bulletin</i> , 2015, 100, 82-91.	2.3	561
3	Seasonal-Dial Shifts of Ichthyoplankton Assemblages and Plastic Debris around an Equatorial Atlantic Archipelago. <i>Frontiers in Environmental Science</i> , 2016, 4, .	1.5	28
4	Plastic debris and policy: Using current scientific understanding to invoke positive change. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 1617-1626.	2.2	108
5	(Nano)plastics in the environment – Sources, fates and effects. <i>Science of the Total Environment</i> , 2016, 566-567, 15-26.	3.9	725
6	Pigments and plastic in limnetic ecosystems: A qualitative and quantitative study on microparticles of different size classes. <i>Water Research</i> , 2016, 98, 64-74.	5.3	359
7	Microplastic pollution in lakes and lake shoreline sediments – A case study on Lake Bolsena and Lake Chiusi (central Italy). <i>Environmental Pollution</i> , 2016, 213, 648-657.	3.7	433
8	Analysis of environmental microplastics by vibrational microspectroscopy: FTIR, Raman or both?. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 8377-8391.	1.9	611
9	White-faced storm-petrels <i>Pelagodroma marina</i> predated by gulls as biological monitors of plastic pollution in the pelagic subtropical Northeast Atlantic. <i>Marine Pollution Bulletin</i> , 2016, 112, 117-122.	2.3	32
10	The Mediterranean Plastic Soup: synthetic polymers in Mediterranean surface waters. <i>Scientific Reports</i> , 2016, 6, 37551.	1.6	537
11	Standardized methods are required to assess and manage microplastic contamination of the Great Lakes system. <i>Journal of Great Lakes Research</i> , 2016, 42, 921-925.	0.8	19
12	Microplastic pollution in the Greenland Sea: Background levels and selective contamination of planktivorous diving seabirds. <i>Environmental Pollution</i> , 2016, 219, 1131-1139.	3.7	213
13	Sea surface microplastics in Slovenian part of the Northern Adriatic. <i>Marine Pollution Bulletin</i> , 2016, 113, 392-399.	2.3	94
14	A semi-automated Raman micro-spectroscopy method for morphological and chemical characterizations of microplastic litter. <i>Marine Pollution Bulletin</i> , 2016, 113, 461-468.	2.3	120
15	Plastic microfibre ingestion by deep-sea organisms. <i>Scientific Reports</i> , 2016, 6, 33997.	1.6	362
16	The effect of particle properties on the depth profile of buoyant plastics in the ocean. <i>Scientific Reports</i> , 2016, 6, 33882.	1.6	194
17	Microscopic anthropogenic litter in terrestrial birds from Shanghai, China: Not only plastics but also natural fibers. <i>Science of the Total Environment</i> , 2016, 550, 1110-1115.	3.9	265
18	Spatial and temporal variation of macro-, meso- and microplastic abundance on a remote coral island of the Maldives, Indian Ocean. <i>Marine Pollution Bulletin</i> , 2017, 116, 340-347.	2.3	195
19	Microplastic ingestion in fish larvae in the western English Channel. <i>Environmental Pollution</i> , 2017, 226, 250-259.	3.7	339

#	ARTICLE	IF	CITATIONS
20	Gaps in aquatic toxicological studies of microplastics. <i>Chemosphere</i> , 2017, 184, 841-848.	4.2	82
21	Impacts of Biofilm Formation on the Fate and Potential Effects of Microplastic in the Aquatic Environment. <i>Environmental Science and Technology Letters</i> , 2017, 4, 258-267.	3.9	881
22	Fate of microplastics and mesoplastics carried by surface currents and wind waves: A numerical model approach in the Sea of Japan. <i>Marine Pollution Bulletin</i> , 2017, 121, 85-96.	2.3	138
23	Influence of environmental and anthropogenic factors on the composition, concentration and spatial distribution of microplastics: A case study of the Bay of Brest (Brittany, France). <i>Environmental Pollution</i> , 2017, 225, 211-222.	3.7	301
24	Plastic Bag Derived-Microplastics as a Vector for Metal Exposure in Terrestrial Invertebrates. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4714-4721.	4.6	519
25	Morphological and Physical Characterization of Microplastics. <i>Comprehensive Analytical Chemistry</i> , 2017, 75, 49-66.	0.7	46
26	Microplastic abundance, distribution and composition along a latitudinal gradient in the Atlantic Ocean. <i>Marine Pollution Bulletin</i> , 2017, 115, 307-314.	2.3	292
27	Comparison of different methods for MP detection: What can we learn from them, and why asking the right question before measurements matters?. <i>Environmental Pollution</i> , 2017, 231, 1256-1264.	3.7	254
28	Transport of microplastics in coastal seas. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 199, 74-86.	0.9	457
29	All is not lost: deriving a top-down mass budget of plastic at sea. <i>Environmental Research Letters</i> , 2017, 12, 114028.	2.2	231
30	High Quantities of Microplastic in Arctic Deep-Sea Sediments from the HAUSGARTEN Observatory. <i>Environmental Science &amp; Technology</i> , 2017, 51, 11000-11010.	4.6	630
31	Recovering microplastics from marine samples: A review of current practices. <i>Marine Pollution Bulletin</i> , 2017, 123, 6-18.	2.3	199
32	Abundant plankton-sized microplastic particles in shelf waters of the northern Gulf of Mexico. <i>Environmental Pollution</i> , 2017, 230, 798-809.	3.7	135
33	Nanoplastic in the North Atlantic Subtropical Gyre. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13689-13697.	4.6	581
34	Lost, but Found with Nile Red: A Novel Method for Detecting and Quantifying Small Microplastics (1) Tj ETQq0 0 0 rgeBT /Overlock 10 Tf	4.6	519
35	Enzymatic Purification of Microplastics in Environmental Samples. <i>Environmental Science &amp; Technology</i> , 2017, 51, 14283-14292.	4.6	338
36	The adverse effects of virgin microplastics on the fertilization and larval development of sea urchins. <i>Marine Environmental Research</i> , 2017, 130, 69-76.	1.1	128
37	Microplastic in Aquatic Ecosystems. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1720-1739.	7.2	554

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38	Quantifying ingested debris in marine megafauna: a review and recommendations for standardization. <i>Analytical Methods</i> , 2017, 9, 1454-1469.	1.3	331
39	Mikroplastik in aquatischen Ökosystemen. <i>Angewandte Chemie</i> , 2017, 129, 1744-1764.	1.6	17
40	Plastic Pollution Patterns in Offshore, Nearshore and Estuarine Waters: A Case Study from Perth, Western Australia. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	22
42	Characterization of Microplastics by Raman Spectroscopy. <i>Comprehensive Analytical Chemistry</i> , 2017, , 119-151.	0.7	84
43	The Role of Laboratory Experiments in the Validation of Field Data. <i>Comprehensive Analytical Chemistry</i> , 2017, 75, 241-273.	0.7	6
45	Microplastics in the environment: Challenges in analytical chemistry - A review. <i>Analytica Chimica Acta</i> , 2018, 1017, 1-19.	2.6	546
46	Microplastics in sub-surface waters of the Arctic Central Basin. <i>Marine Pollution Bulletin</i> , 2018, 130, 8-18.	2.3	295
47	Multi-temporal surveys for microplastic particles enabled by a novel and fast application of SWIR imaging spectroscopy – Study of an urban watercourse traversing the city of Berlin, Germany. <i>Environmental Pollution</i> , 2018, 239, 579-589.	3.7	82
48	Abundance, composition, and distribution of microplastics larger than 20 µm in sand beaches of South Korea. <i>Environmental Pollution</i> , 2018, 238, 894-902.	3.7	160
49	Microplastic analysis in the South Funen Archipelago, Baltic Sea, implementing manta trawling and bulk sampling. <i>Marine Pollution Bulletin</i> , 2018, 128, 601-608.	2.3	125
50	Microplastics in freshwater systems: A review on occurrence, environmental effects, and methods for microplastics detection. <i>Water Research</i> , 2018, 137, 362-374.	5.3	1,259
51	Effective and easy to use extraction method shows low numbers of microplastics in offshore planktivorous fish from the northern Baltic Sea. <i>Marine Pollution Bulletin</i> , 2018, 127, 586-592.	2.3	48
52	Assessment tools for microplastics and natural fibres ingested by fish in an urbanised estuary. <i>Environmental Pollution</i> , 2018, 234, 552-561.	3.7	145
53	Sub-Basin Scale Heterogeneity in the Polymeric Composition of Floating Microplastics in the Mediterranean Sea. <i>Springer Water</i> , 2018, , 1-7.	0.2	1
54	Synthetic microfibers in the marine environment: A review on their occurrence in seawater and sediments. <i>Marine Pollution Bulletin</i> , 2018, 127, 365-376.	2.3	300
55	A review of methods for measuring microplastics in aquatic environments. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11319-11332.	2.7	231
56	A workflow for improving estimates of microplastic contamination in marine waters: A case study from North-Western Australia. <i>Environmental Pollution</i> , 2018, 238, 26-38.	3.7	94
57	Microplastic contamination of river beds significantly reduced by catchment-wide flooding. <i>Nature Geoscience</i> , 2018, 11, 251-257.	5.4	572

#	ARTICLE	IF	CITATIONS
58	No increase in marine microplastic concentration over the last three decades – A case study from the Baltic Sea. <i>Science of the Total Environment</i> , 2018, 621, 1272-1279.	3.9	152
59	Quantifying shedding of synthetic fibers from textiles; a source of microplastics released into the environment. <i>Environmental Science and Pollution Research</i> , 2018, 25, 1191-1199.	2.7	358
60	Variation in plastic abundance at different lake beach zones - A case study. <i>Science of the Total Environment</i> , 2018, 613-614, 530-537.	3.9	47
61	Microplastics reduced posterior segment regeneration rate of the polychaete <i>Perinereis aibuhitensis</i> . <i>Marine Pollution Bulletin</i> , 2018, 129, 782-786.	2.3	44
62	Particle effects on fish gills: An immunogenetic approach for rainbow trout and zebrafish. <i>Aquaculture</i> , 2018, 484, 98-104.	1.7	38
63	Classification of marine microdebris: A review and case study on fish from the Great Barrier Reef, Australia. <i>Scientific Reports</i> , 2018, 8, 16422.	1.6	68
64	Biochemodynamic Features of Metal Ions Bound by Micro- and Nano-Plastics in Aquatic Media. <i>Frontiers in Chemistry</i> , 2018, 6, 627.	1.8	55
65	Horizontal and Vertical Distribution of Microplastics in Korean Coastal Waters. <i>Environmental Science &amp; Technology</i> , 2018, 52, 12188-12197.	4.6	218
66	Microplastics in Aquatic Systems – Monitoring Methods and Biological Consequences. , 2018, , 179-195.		5
67	Floating plastics in Adriatic waters (Mediterranean Sea): From the macro- to the micro-scale. <i>Marine Pollution Bulletin</i> , 2018, 136, 341-350.	2.3	99
68	Review on microplastic studies in Brazilian aquatic ecosystems. <i>Ocean and Coastal Management</i> , 2018, 165, 385-400.	2.0	54
69	Comparison of Raman and Fourier Transform Infrared Spectroscopy for the Quantification of Microplastics in the Aquatic Environment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13279-13288.	4.6	251
70	Raman microspectroscopy as a tool for microplastic particle analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 109, 214-226.	5.8	185
71	Distribution and composition of floating macro litter off the Azores archipelago and Madeira (NE) Tj ETQq1 1 0.784314 rgBT /Overloc 1.1 29	1.1	29
72	Field-Based Evidence for Microplastic in Marine Aggregates and Mussels: Implications for Trophic Transfer. <i>Environmental Science &amp; Technology</i> , 2018, 52, 11038-11048.	4.6	165
73	Quantification of microplastic mass and removal rates at wastewater treatment plants applying Focal Plane Array (FPA)-based Fourier Transform Infrared (FT-IR) imaging. <i>Water Research</i> , 2018, 142, 1-9.	5.3	518
74	Marine Microplastics: Abundance, Distribution, and Composition. , 2018, , 1-26.		46
75	Instrumental analysis of microplastics – benefits and challenges. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6343-6352.	1.9	157

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76	The Effects of Microplastic Pollution on Aquatic Organisms. , 2018, , 249-270.		12
77	Constraints and Priorities for Conducting Experimental Exposures of Marine Organisms to Microplastics. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	178
78	Plastics and Other Solid Wastes. , 2018, , 69-88.		1
79	Risk assessment of microplastics in the ocean: Modelling approach and first conclusions. <i>Environmental Pollution</i> , 2018, 242, 1930-1938.	3.7	313
80	Suspended microplastics in a highly polluted bay: Abundance, size, and availability for mesozooplankton. <i>Marine Pollution Bulletin</i> , 2018, 135, 256-265.	2.3	65
81	The occurrence and degradation of aquatic plastic litter based on polymer physicochemical properties: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2018, 48, 685-722.	6.6	148
82	Microplastics in Galway Bay: A comparison of sampling and separation methods. <i>Marine Pollution Bulletin</i> , 2018, 135, 932-940.	2.3	56
83	Small Microplastic Sampling in Water: Development of an Encapsulated Filtration Device. <i>Water (Switzerland)</i> , 2018, 10, 1055.	1.2	46
84	Microplastic abundance and characteristics in French Atlantic coastal sediments using a new extraction method. <i>Environmental Pollution</i> , 2018, 243, 228-237.	3.7	97
85	Identification of microplastics using Raman spectroscopy: Latest developments and future prospects. <i>Water Research</i> , 2018, 142, 426-440.	5.3	512
86	The Occurrence, Fate, and Effects of Microplastics in the Marine Environment. , 2018, , 133-173.		14
87	Brominated and organophosphate flame retardants along a sediment transect encompassing the Guiyu, China e-waste recycling zone. <i>Science of the Total Environment</i> , 2019, 646, 58-67.	3.9	113
88	Windows into Microbial Seascapes: Advances in Nanoscale Imaging and Application to Marine Sciences. <i>Annual Review of Marine Science</i> , 2019, 11, 465-490.	5.1	10
89	Microplastics in the environment: A critical review of current understanding and identification of future research needs. <i>Environmental Pollution</i> , 2019, 254, 113011.	3.7	379
90	White and wonderful? Microplastics prevail in snow from the Alps to the Arctic. <i>Science Advances</i> , 2019, 5, eaax1157.	4.7	790
91	Evaluation of continuous flow centrifugation as an alternative technique to sample microplastic from water bodies. <i>Marine Environmental Research</i> , 2019, 151, 104768.	1.1	36
92	On the representativeness of pump water samples versus manta sampling in microplastic analysis. <i>Environmental Pollution</i> , 2019, 254, 112970.	3.7	81
93	Adsorption behavior of three triazole fungicides on polystyrene microplastics. <i>Science of the Total Environment</i> , 2019, 691, 1119-1126.	3.9	123

#	ARTICLE	IF	CITATIONS
94	Dynamic of small polyethylene microplastics (10 <sup>1</sup> –1 <sup>4</sup> µm) in mussel's tissues. <i>Marine Pollution Bulletin</i> , 2019, 146, 493-501.	2.3	40
95	Raman Spectral Imaging for the Detection of Inhalable Microplastics in Ambient Particulate Matter Samples. <i>Environmental Science &amp; Technology</i> , 2019, 53, 8947-8956.	4.6	86
96	Aggregation kinetics of UV irradiated nanoplastics in aquatic environments. <i>Water Research</i> , 2019, 163, 114870.	5.3	116
97	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
98	An interlaboratory comparison exercise for the determination of microplastics in standard sample bottles. <i>Marine Pollution Bulletin</i> , 2019, 146, 831-837.	2.3	79
99	A novel method for assessing microplastic effect in suspension through mixing test and reference materials. <i>Scientific Reports</i> , 2019, 9, 10695.	1.6	39
100	Fleur de Sel—An interregional monitor for microplastics mass load and composition in European coastal waters?. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 144, 104711.	2.6	43
101	Marine Debris Polymers on Main Hawaiian Island Beaches, Sea Surface, and Seafloor. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12218-12226.	4.6	56
102	Microplastics induce transcriptional changes, immune response and behavioral alterations in adult zebrafish. <i>Scientific Reports</i> , 2019, 9, 15775.	1.6	200
103	Microplastics pollution along the Lebanese coast (Eastern Mediterranean Basin): Occurrence in surface water, sediments and biota samples. <i>Science of the Total Environment</i> , 2019, 696, 133933.	3.9	123
104	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
105	Solving the plastic problem: From cradle to grave, to reincarnation. <i>Science Progress</i> , 2019, 102, 218-248.	1.0	63
106	Ingestion of microplastics by nematodes depends on feeding strategy and buccal cavity size. <i>Environmental Pollution</i> , 2019, 255, 113227.	3.7	77
107	Effects of micro-sized polyethylene spheres on the marine microalga <i>Dunaliella salina</i> : Focusing on the algal cell to plastic particle size ratio. <i>Aquatic Toxicology</i> , 2019, 216, 105296.	1.9	119
108	Towards more realistic reference microplastics and nanoplastics: preparation of polyethylene micro/nanoparticles with a biosurfactant. <i>Environmental Science: Nano</i> , 2019, 6, 315-324.	2.2	54
109	Abundance of non-conservative microplastics in the upper ocean from 1957 to 2066. <i>Nature Communications</i> , 2019, 10, 417.	5.8	288
110	Microplastic pollution in estuaries across a gradient of human impact. <i>Environmental Pollution</i> , 2019, 247, 457-466.	3.7	139
111	Effects of Nylon Microplastic on Feeding, Lipid Accumulation, and Moulting in a Coldwater Copepod. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7075-7082.	4.6	151

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112	A case study investigating temporal factors that influence microplastic concentration in streams under different treatment regimes. <i>Environmental Science and Pollution Research</i> , 2019, 26, 21797-21807.	2.7	29
113	Analysis of suspended microplastics in the Changjiang Estuary: Implications for riverine plastic load to the ocean. <i>Water Research</i> , 2019, 161, 560-569.	5.3	194
114	Sources, distribution and fate of microfibrils on the Great Barrier Reef, Australia. <i>Scientific Reports</i> , 2019, 9, 9021.	1.6	56
115	First occurrence and composition assessment of microplastics in native mussels collected from coastal and offshore areas of the northern and central Adriatic Sea. <i>Environmental Science and Pollution Research</i> , 2019, 26, 24407-24416.	2.7	53
116	Spatial distribution of microplastics in sediments and surface waters of the southern North Sea. <i>Environmental Pollution</i> , 2019, 252, 1719-1729.	3.7	190
117	The vertical distribution and biological transport of marine microplastics across the epipelagic and mesopelagic water column. <i>Scientific Reports</i> , 2019, 9, 7843.	1.6	325
118	Microplastics uptake and egestion dynamics in Pacific oysters, <i>Magallana gigas</i> (Thunberg, 1793), under controlled conditions. <i>Environmental Pollution</i> , 2019, 252, 742-748.	3.7	45
119	Microplastic distribution in surface sediments along the Spanish Mediterranean continental shelf. <i>Environmental Science and Pollution Research</i> , 2019, 26, 21264-21273.	2.7	67
120	Applications in: Environmental Analytics (fine particles). <i>Physical Sciences Reviews</i> , 2019, 4, .	0.8	1
121	Mikroplastik. , 2019, , .		5
122	Mikroplastik. , 2019, , 15-242.		2
123	Identification and visualisation of microplastics by Raman mapping. <i>Analytica Chimica Acta</i> , 2019, 1077, 191-199.	2.6	145
124	Adaptation of a laboratory protocol to quantify microplastics contamination in estuarine waters. <i>MethodsX</i> , 2019, 6, 740-749.	0.7	16
125	A 3D numerical model to Track Marine Plastic Debris (TrackMPD): Sensitivity of microplastic trajectories and fates to particle dynamical properties and physical processes. <i>Marine Pollution Bulletin</i> , 2019, 141, 256-272.	2.3	95
126	Automated identification and quantification of microfibrils and microplastics. <i>Analytical Methods</i> , 2019, 11, 2138-2147.	1.3	107
127	Atmospheric transport and deposition of microplastics in a remote mountain catchment. <i>Nature Geoscience</i> , 2019, 12, 339-344.	5.4	1,193
128	Microplastics FTIR characterisation and distribution in the water column and digestive tracts of small pelagic fish in the Gulf of Lions. <i>Marine Pollution Bulletin</i> , 2019, 142, 510-519.	2.3	93
129	Microplastics in urban and highway stormwater retention ponds. <i>Science of the Total Environment</i> , 2019, 671, 992-1000.	3.9	286



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130	A Review of Property Enhancement Techniques for Carrageenan-based Films and Coatings. Carbohydrate Polymers, 2019, 216, 287-302.	5.1	135
131	Distribution of plastic polymer types in the marine environment; A meta-analysis. Journal of Hazardous Materials, 2019, 369, 691-698.	6.5	508
132	Microplastic abundance, characteristics, and removal in wastewater treatment plants in a coastal city of China. Water Research, 2019, 155, 255-265.	5.3	309
133	Microplastic in Gonggong snails ( <i>Laevistrombus turturella</i> ) and sediment of Bintan Island, Kepulauan Riau Province, Indonesia. AIP Conference Proceedings, 2019, , .	0.3	6
134	In search for the sources of plastic marine litter that contaminates the Easter Island Ecoregion. Scientific Reports, 2019, 9, 19662.	1.6	23
135	Tracing microplastics in aquatic environments based on sediment analogies. Scientific Reports, 2019, 9, 15207.	1.6	68
136	Sea Waves Transport of Inertial Micro-Plastics: Mathematical Model and Applications. Journal of Marine Science and Engineering, 2019, 7, 467.	1.2	15
137	(Micro) plastic fluxes and stocks in Lake Geneva basin. TrAC - Trends in Analytical Chemistry, 2019, 112, 66-74.	5.8	72
138	Small Microplastics As a Main Contributor to Plastic Mass Balance in the North Atlantic Subtropical Gyre. Environmental Science & Technology, 2019, 53, 1157-1164.	4.6	128
139	Evidence of density-dependent cannibalism in the diet of wild Atlantic bluefin tuna larvae ( <i>Thunnus</i> ) Tj ETQq1 1 0.784314 rgBT /Overl	0.9	20
140	Microplastics in wastewater treatment plants: Detection, occurrence and removal. Water Research, 2019, 152, 21-37.	5.3	1,069
141	Micro- (nano) plastics in freshwater ecosystems: Abundance, toxicological impact and quantification methodology. TrAC - Trends in Analytical Chemistry, 2019, 110, 116-128.	5.8	333
142	Microplastic content variation in water column: The observations employing a novel sampling tool in stratified Baltic Sea. Marine Pollution Bulletin, 2019, 138, 193-205.	2.3	92
143	Gastropod pedal mucus retains microplastics and promotes the uptake of particles by marine periwinkles. Environmental Pollution, 2019, 246, 688-696.	3.7	37
144	Development and testing of a fractionated filtration for sampling of microplastics in water. Water Research, 2019, 149, 650-658.	5.3	65
145	Microplastics Pollution in the Marine Environment. , 2019, , 329-351.		16
146	Effects of ingested polystyrene microplastics on brine shrimp, <i>Artemia parthenogenetica</i> . Environmental Pollution, 2019, 244, 715-722.	3.7	97
147	The fate of microplastics during uptake and depuration phases in a blue mussel exposure system. Environmental Toxicology and Chemistry, 2019, 38, 99-105.	2.2	44

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148	Photochemical dissolution of buoyant microplastics to dissolved organic carbon: Rates and microbial impacts. <i>Journal of Hazardous Materials</i> , 2020, 383, 121065.	6.5	212
149	Microplastic contamination in Penaeid shrimp from the Northern Bay of Bengal. <i>Chemosphere</i> , 2020, 238, 124688.	4.2	178
150	Acoustic focusing of microplastics in microchannels: A promising continuous collection approach. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127328.	4.0	26
151	Does microplastic ingestion by zooplankton affect predator-prey interactions? An experimental study on larviphagy. <i>Environmental Pollution</i> , 2020, 256, 113479.	3.7	40
152	Occurrence and characteristics of microplastics in surface road dust in Kusatsu (Japan), Da Nang (Vietnam), and Kathmandu (Nepal). <i>Environmental Pollution</i> , 2020, 256, 113447.	3.7	148
153	A Global Perspective on Microplastics. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2018JC014719.	1.0	488
154	Immunotoxicity of microplastics and two persistent organic pollutants alone or in combination to a bivalve species. <i>Environmental Pollution</i> , 2020, 258, 113845.	3.7	160
155	National Reconnaissance Survey of Microplastics in Municipal Wastewater Treatment Plants in Korea. <i>Environmental Science &amp; Technology</i> , 2020, 54, 1503-1512.	4.6	93
156	Rapid ingestion and egestion of spherical microplastics by bacteria-feeding nematodes. <i>Chemosphere</i> , 2020, 261, 128162.	4.2	26
157	Regional study of microplastics in surface waters and deep sea sediments south of the Algarve Coast. <i>Regional Studies in Marine Science</i> , 2020, 40, 101488.	0.4	14
158	Canola oil extraction in conjunction with a plastic free separation unit optimises microplastics monitoring in water and sediment. <i>Analytical Methods</i> , 2020, 12, 5128-5139.	1.3	32
159	Ingestion and impact of microplastics on arctic <i>Calanus</i> copepods. <i>Aquatic Toxicology</i> , 2020, 228, 105631.	1.9	34
160	Characterization of microplastics in the surface waters of an urban lagoon (Bizerte lagoon,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 267 T factors. <i>Marine Pollution Bulletin</i> , 2020, 160, 111625.	2.3	44
161	Abundance and characteristics of microfibers detected in sediment trap material from the deep subtropical North Atlantic Ocean. <i>Science of the Total Environment</i> , 2020, 738, 140354.	3.9	37
162	Catching the variety: Obtaining the distribution of terminal velocities of microplastics particles in a stagnant fluid by a stochastic simulation. <i>Marine Pollution Bulletin</i> , 2020, 159, 111464.	2.3	9
164	Quantification of plankton-sized microplastics in a productive coastal Arctic marine ecosystem. <i>Environmental Pollution</i> , 2020, 266, 115248.	3.7	52
165	Fluorescent Microplastic Uptake by Immune Cells of Atlantic Salmon ( <i>Salmo salar</i> L.). <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	12
166	Wave-Induced Distribution of Microplastic in the Surf Zone. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	28

#	ARTICLE	IF	CITATIONS
167	A Nanoplastic Sampling and Enrichment Approach by Continuous Flow Centrifugation. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	29
168	Ingestion of microplastics by meiobenthic communities in small-scale microcosm experiments. <i>Science of the Total Environment</i> , 2020, 746, 141276.	3.9	33
169	Rapid Sampling of Suspended and Floating Microplastics in Challenging Riverine and Coastal Water Environments in Japan. <i>Water (Switzerland)</i> , 2020, 12, 1903.	1.2	32
170	Numerical modeling of the beach process of marine plastics: 2. A diagnostic approach with onshore-offshore advection-diffusion equations for buoyant plastics. <i>Marine Pollution Bulletin</i> , 2020, 160, 111548.	2.3	4
171	Riverine microplastics: Behaviour, spatio-temporal variability, and recommendations for standardised sampling and monitoring. <i>Journal of Water Process Engineering</i> , 2020, 38, 101600.	2.6	61
172	Microplastics in Food: A Review on Analytical Methods and Challenges. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 6710.	1.2	89
173	Plastic Pollution and the Chesapeake Bay: The Food System and Beyond. <i>Estuaries of the World</i> , 2020, , 325-348.	0.1	1
174	Microplastics removal in wastewater treatment plants: a critical review. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2664-2675.	1.2	147
175	Bioavailability of Microplastics to Marine Zooplankton: Effect of Shape and Infochemicals. <i>Environmental Science &amp; Technology</i> , 2020, 54, 12024-12033.	4.6	79
176	Soil Pollution from Micro- and Nanoplastic Debris: A Hidden and Unknown Biohazard. <i>Sustainability</i> , 2020, 12, 7255.	1.6	70
177	Surface Pattern Analysis of Microplastics and Their Impact on Human-Derived Cells. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4541-4550.	2.0	35
178	Bacterial biofilms colonizing plastics in estuarine waters, with an emphasis on <i>Vibrio</i> spp. and their antibacterial resistance. <i>PLoS ONE</i> , 2020, 15, e0237704.	1.1	58
179	High concentrations of plastic hidden beneath the surface of the Atlantic Ocean. <i>Nature Communications</i> , 2020, 11, 4073.	5.8	261
180	Evidence of Marine Microplastics in Commercially Harvested Seafood. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 562760.	2.0	81
181	A review of the treatment options for marine plastic waste in South Africa. <i>Marine Pollution Bulletin</i> , 2020, 161, 111785.	2.3	19
182	Mercury interactions with algal and plastic microparticles: Comparative role as vectors of metals for the mussel, <i>Mytilus galloprovincialis</i> . <i>Journal of Hazardous Materials</i> , 2020, 396, 122739.	6.5	50
183	Storm events as key moments of microplastic contamination in aquatic ecosystems. <i>Science of the Total Environment</i> , 2020, 734, 139436.	3.9	162
184	<i>Environmental Biotechnology Vol. 1. Environmental Chemistry for A Sustainable World</i> , 2020, , .	0.3	0

#	ARTICLE	IF	CITATIONS
185	Pump-underway ship intake: An unexploited opportunity for Marine Strategy Framework Directive (MSFD) microplastic monitoring needs on coastal and oceanic waters. <i>PLoS ONE</i> , 2020, 15, e0232744.	1.1	16
186	Reporting Guidelines to Increase the Reproducibility and Comparability of Research on Microplastics. <i>Applied Spectroscopy</i> , 2020, 74, 1066-1077.	1.2	196
188	Are we underestimating microplastic abundance in the marine environment? A comparison of microplastic capture with nets of different mesh-size. <i>Environmental Pollution</i> , 2020, 265, 114721.	3.7	286
189	Immunotoxicity of petroleum hydrocarbons and microplastics alone or in combination to a bivalve species: Synergic impacts and potential toxication mechanisms. <i>Science of the Total Environment</i> , 2020, 728, 138852.	3.9	39
190	Microplastics Aggravate the Bioaccumulation of Two Waterborne Veterinary Antibiotics in an Edible Bivalve Species: Potential Mechanisms and Implications for Human Health. <i>Environmental Science &amp; Technology</i> , 2020, 54, 8115-8122.	4.6	118
191	Microplastic in the stomachs of open-ocean and deep-sea fishes of the North-East Atlantic. <i>Environmental Pollution</i> , 2020, 265, 115060.	3.7	64
192	Simple Generation of Suspensible Secondary Microplastic Reference Particles via Ultrasound Treatment. <i>Frontiers in Chemistry</i> , 2020, 8, 169.	1.8	53
193	Tying up Loose Ends of Microplastic Pollution in the Arctic: Distribution from the Sea Surface through the Water Column to Deep-Sea Sediments at the HAUSGARTEN Observatory. <i>Environmental Science &amp; Technology</i> , 2020, 54, 4079-4090.	4.6	183
194	Microplastics in the Bay of Biscay: An overview. <i>Marine Pollution Bulletin</i> , 2020, 153, 110996.	2.3	24
195	Microplastics. , 2020, , 223-249.		16
196	Critical Assessment of Analytical Methods for the Harmonized and Cost-Efficient Analysis of Microplastics. <i>Applied Spectroscopy</i> , 2020, 74, 1012-1047.	1.2	249
197	A review of possible pathways of marine microplastics transport in the ocean. <i>Anthropocene Coasts</i> , 2020, 3, 6-13.	0.6	72
198	An assessment of microplastics in the ecosystem and selected commercially important fishes off Kochi, south eastern Arabian Sea, India. <i>Marine Pollution Bulletin</i> , 2020, 154, 111027.	2.3	101
199	Immunotoxicity and neurotoxicity of bisphenol A and microplastics alone or in combination to a bivalve species, <i>Tegillarca granosa</i> . <i>Environmental Pollution</i> , 2020, 265, 115115.	3.7	100
200	Source, occurrence, migration and potential environmental risk of microplastics in sewage sludge and during sludge amendment to soil. <i>Science of the Total Environment</i> , 2020, 742, 140355.	3.9	98
201	Accumulation and effects of microplastic fibers in American lobster larvae ( <i>Homarus americanus</i> ). <i>Marine Pollution Bulletin</i> , 2020, 157, 111280.	2.3	36
202	In vitro chemical and physical toxicities of polystyrene microfragments in human-derived cells. <i>Journal of Hazardous Materials</i> , 2020, 400, 123308.	6.5	98
203	Trophic transfer of microplastics in an estuarine food chain and the effects of a sorbed legacy pollutant. <i>Limnology and Oceanography Letters</i> , 2020, 5, 154-162.	1.6	100

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204	ToF-ESIMS characterization of microplastics in soils. <i>Surface and Interface Analysis</i> , 2020, 52, 293-300.	0.8	42
205	Ranking environmental degradation trends of plastic marine debris based on physical properties and molecular structure. <i>Nature Communications</i> , 2020, 11, 727.	5.8	284
206	Removal efficiency of micro- and nanoplastics (180-125µm) during drinking water treatment. <i>Science of the Total Environment</i> , 2020, 720, 137383.	3.9	148
207	Effects of microplastics and mercury on manila clam <i>Ruditapes philippinarum</i> : Feeding rate, immunomodulation, histopathology and oxidative stress. <i>Environmental Pollution</i> , 2020, 262, 114247.	3.7	81
208	Identification and visualisation of microplastics/nanoplastics by Raman imaging (i): Down to 100nm. <i>Water Research</i> , 2020, 174, 115658.	5.3	169
209	The physical oceanography of the transport of floating marine debris. <i>Environmental Research Letters</i> , 2020, 15, 023003.	2.2	469
210	A Critical Examination of the Role of Marine Snow and Zooplankton Fecal Pellets in Removing Ocean Surface Microplastic. <i>Frontiers in Marine Science</i> , 2020, 6, .	1.2	50
211	Low incidence of microplastic contaminants in Pacific oysters ( <i>Crassostrea gigas</i> Thunberg) from the Salish Sea, USA. <i>Science of the Total Environment</i> , 2020, 715, 136826.	3.9	65
212	High density polyethylene (HDPE) microplastics impair development and swimming activity of Pacific oyster D-larvae, <i>Crassostrea gigas</i> , depending on particle size. <i>Environmental Pollution</i> , 2020, 260, 113978.	3.7	65
213	The rapid increases in microplastics in urban lake sediments. <i>Scientific Reports</i> , 2020, 10, 848.	1.6	58
214	Modulation of PAH toxicity on the freshwater organism <i>G. Aeseli</i> by microparticles. <i>Environmental Pollution</i> , 2020, 260, 113999.	3.7	43
215	Microplastic abundance, distribution and composition in the mid-west Pacific Ocean. <i>Environmental Pollution</i> , 2020, 264, 114125.	3.7	122
216	Microplastics in seawater: sampling strategies, laboratory methodologies, and identification techniques applied to port environment. <i>Environmental Science and Pollution Research</i> , 2020, 27, 8938-8952.	2.7	91
218	Identification and Characterization Methods for Microplastics Basing on Spatial Imaging in Micro-/Nanoscales. <i>Handbook of Environmental Chemistry</i> , 2020, , 25-37.	0.2	8
219	Baseline for plastic and hydrocarbon pollution of rivers, reefs, and sediment on beaches in Veracruz State, México, and a proposal for bioremediation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 23035-23047.	2.7	15
220	Microplastics Removal from Treated Wastewater by a Biofilter. <i>Water (Switzerland)</i> , 2020, 12, 1085.	1.2	48
221	Food preference determines the best suitable digestion protocol for analysing microplastic ingestion by fish. <i>Marine Pollution Bulletin</i> , 2020, 154, 111050.	2.3	31
222	Total coliform and <i>Escherichia coli</i> in microplastic biofilms grown in wastewater and inactivation by peracetic acid. <i>Water Environment Research</i> , 2021, 93, 334-342.	1.3	15

#	ARTICLE	IF	CITATIONS
223	Uptake, tissue distribution and toxicological effects of environmental microplastics in early juvenile fish <i>Dicentrarchus labrax</i> . <i>Journal of Hazardous Materials</i> , 2021, 403, 124055.	6.5	84
224	A systematic protocol of microplastics analysis from their identification to quantification in water environment: A comprehensive review. <i>Journal of Hazardous Materials</i> , 2021, 403, 124049.	6.5	71
225	In vitro toxicity from a physical perspective of polyethylene microplastics based on statistical curvature change analysis. <i>Science of the Total Environment</i> , 2021, 752, 142242.	3.9	82
226	Plackett Burman design for microplastics quantification in marine sediments. <i>Marine Pollution Bulletin</i> , 2021, 162, 111841.	2.3	14
227	Fate and effects of microplastics in wastewater treatment processes. <i>Science of the Total Environment</i> , 2021, 757, 143902.	3.9	64
228	Spatial Distribution of Microplastics in Surficial Benthic Sediment of Lake Michigan and Lake Erie. <i>Environmental Science &amp; Technology</i> , 2021, 55, 373-384.	4.6	65
229	Micro-plastic pollution along the Bay of Bengal coastal stretch of Tamil Nadu, South India. <i>Science of the Total Environment</i> , 2021, 756, 144073.	3.9	38
230	Why analysing microplastics in floodplains matters: application in a sedimentary context. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 117-131.	1.7	25
231	Marine mussel-based biomarkers as risk indicators to assess oceanic region-specific microplastics impact potential. <i>Ecological Indicators</i> , 2021, 120, 106915.	2.6	12
232	Semi-automated analysis of microplastics in complex wastewater samples. <i>Environmental Pollution</i> , 2021, 268, 115841.	3.7	72
233	Microplastic analysis in drinking water based on fractionated filtration sampling and Raman microspectroscopy. <i>Environmental Science and Pollution Research</i> , 2021, 28, 59439-59451.	2.7	46
234	A Review of Microplastics in Aquatic Sediments: Occurrence, Fate, Transport, and Ecological Impact. <i>Current Pollution Reports</i> , 2021, 7, 40-53.	3.1	24
235	From Sampling to Analysis: A Critical Review of Techniques Used in the Detection of Micro- and Nanoplastics in Aquatic Environments. <i>ACS ES&amp;T Water</i> , 2021, 1, 748-764.	2.3	27
236	Plastic ingestion by marine fish is widespread and increasing. <i>Global Change Biology</i> , 2021, 27, 2188-2199.	4.2	135
237	Nationwide monitoring of microplastics in bivalves from the coastal environment of Korea. <i>Environmental Pollution</i> , 2021, 270, 116175.	3.7	113
238	Towards the Development of Portable and In Situ Optical Devices for Detection of Micro-and Nanoplastics in Water: A Review on the Current Status. <i>Polymers</i> , 2021, 13, 730.	2.0	37
239	Revisiting Microplastics in Landfill Leachate: Unnoticed Tiny Microplastics and Their Fate in Treatment Works. <i>Water Research</i> , 2021, 190, 116784.	5.3	106
240	A temporal record of microplastic pollution in Mediterranean seagrass soils. <i>Environmental Pollution</i> , 2021, 273, 116451.	3.7	74

#	ARTICLE	IF	CITATIONS
242	Enhancing Microplastics Removal from Wastewater Using Electro-Coagulation and Granule-Activated Carbon with Thermal Regeneration. <i>Processes</i> , 2021, 9, 617.	1.3	38
243	Sinking microplastics in the water column: simulations in the Mediterranean Sea. <i>Ocean Science</i> , 2021, 17, 431-453.	1.3	26
244	A novel approach based on multiple fish species and water column compartments in assessing vertical microlitter distribution and composition. <i>Environmental Pollution</i> , 2021, 272, 116419.	3.7	17
245	<i>In Situ</i> Identification and Spatial Mapping of Microplastic Standards in Paramecia by Secondary-Ion Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2021, 93, 5521-5528.	3.2	12
246	Unaccounted Microplastics in Wastewater Sludge: Where Do They Go?. <i>ACS ES&amp;T Water</i> , 2021, 1, 1086-1097.	2.3	48
247	Microplastics in the Aquatic Environment: Occurrence, Persistence, Analysis, and Human Exposure. <i>Water (Switzerland)</i> , 2021, 13, 973.	1.2	56
248	Modeling the Exposure of the Macaronesia Islands (NE Atlantic) to Marine Plastic Pollution. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	25
249	Assessing diversity, abundance, and mass of microplastics (~300µm) in aquatic systems. <i>Limnology and Oceanography: Methods</i> , 2021, 19, 369-384.	1.0	4
250	Not as Bad as It Seems? A Literature Review on the Case of Microplastic Uptake in Fish. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	20
251	Microplastic pollution in African countries' water systems: a review on findings, applied methods, characteristics, impacts, and managements. <i>SN Applied Sciences</i> , 2021, 3, 629.	1.5	32
252	Advances in Ultra-Trace Analytical Capability for Micro/Nanoplastics and Water-Soluble Polymers in the Environment: Fresh Falling Urban Snow. <i>Environmental Pollution</i> , 2021, 276, 116698.	3.7	25
253	Assessment of Microplastics in a Municipal Wastewater Treatment Plant with Tertiary Treatment: Removal Efficiencies and Loading per Day into the Environment. <i>Water (Switzerland)</i> , 2021, 13, 1339.	1.2	29
254	Modelling size distributions of marine plastics under the influence of continuous cascading fragmentation. <i>Environmental Research Letters</i> , 2021, 16, 054075.	2.2	27
255	Current Progress on Marine Microplastics Pollution Research: A Review on Pollution Occurrence, Detection, and Environmental Effects. <i>Water (Switzerland)</i> , 2021, 13, 1713.	1.2	13
256	Assessment of plastic pollution in the Bohai Sea: Abundance, distribution, morphological characteristics and chemical components. <i>Environmental Pollution</i> , 2021, 278, 116874.	3.7	27
257	Temporal patterns in the abundance, type and composition of microplastics on the coast of the R�o de la Plata estuary. <i>Marine Pollution Bulletin</i> , 2021, 168, 112382.	2.3	20
258	Negative impacts of realistic doses of spherical and irregular microplastics emerged late during a 42-weeks-long exposure experiment with blue mussels. <i>Science of the Total Environment</i> , 2021, 778, 146088.	3.9	34
259	Microplastic fibers " Underestimated threat to aquatic organisms?. <i>Science of the Total Environment</i> , 2021, 777, 146045.	3.9	155

#	ARTICLE	IF	CITATIONS
260	Characterization and antibacterial activity of edible films based on carboxymethyl cellulose, Dioscorea opposita mucilage, glycerol and ZnO nanoparticles. <i>Food Chemistry</i> , 2021, 349, 129208.	4.2	61
261	Prevalence of small high-density microplastics in the continental shelf and deep sea waters of East Asia. <i>Water Research</i> , 2021, 200, 117238.	5.3	45
262	Adsorption behavior of organic pollutants on microplastics. <i>Ecotoxicology and Environmental Safety</i> , 2021, 217, 112207.	2.9	306
263	A preliminary study on the distribution and morphology of microplastics in the coastal areas of Istanbul, the metropolitan city of Turkey: The effect of location differences. <i>Journal of Cleaner Production</i> , 2021, 307, 127320.	4.6	11
264	Oceanic long-range transport of organic additives present in plastic products: an overview. <i>Environmental Sciences Europe</i> , 2021, 33, .	2.6	43
265	How do humans recognize and face challenges of microplastic pollution in marine environments? A bibliometric analysis. <i>Environmental Pollution</i> , 2021, 280, 116959.	3.7	24
266	Floating Marine Litter in Eastern Mediterranean From Macro to Microplastics: The Lebanese Coastal Area as a Case Study. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	9
267	Measuring impacts of microplastic treatments via image recognition on immobilised particles below 100µm. <i>Microplastics and Nanoplastics</i> , 2021, 1, .	4.1	9
268	Comparison and uncertainty evaluation of two centrifugal separators for microplastic sampling. <i>Journal of Hazardous Materials</i> , 2021, 414, 125482.	6.5	24
269	Occurrence and distribution of microplastics in beach sediments along Phuket coastline. <i>Marine Pollution Bulletin</i> , 2021, 169, 112496.	2.3	38
270	Polystyrene microplastics induce apoptosis via ROS-mediated p53 signaling pathway in zebrafish. <i>Chemico-Biological Interactions</i> , 2021, 345, 109550.	1.7	75
271	Spatial distribution of microplastics in sandy beach and inshore-offshore sediments of the southern Caspian Sea. <i>Marine Pollution Bulletin</i> , 2021, 169, 112578.	2.3	16
272	Chemical Analysis of Microplastics and Nanoplastics: Challenges, Advanced Methods, and Perspectives. <i>Chemical Reviews</i> , 2021, 121, 11886-11936.	23.0	309
273	Subchronic exposure to high-density polyethylene microplastics alone or in combination with chlortoluron significantly affected valve activity and daily growth of the Pacific oyster, <i>Crassostrea gigas</i> . <i>Aquatic Toxicology</i> , 2021, 237, 105880.	1.9	15
274	Microplastic pollution in Southern Atlantic marine waters: Review of current trends, sources, and perspectives. <i>Science of the Total Environment</i> , 2021, 782, 146541.	3.9	31
275	Abundance and types of plastic pollution in surface waters in the Eastern Arctic (Inuit Nunangat) and the case for reconciliation science. <i>Science of the Total Environment</i> , 2021, 782, 146809.	3.9	27
276	Spatiotemporal microplastic occurrence study of Setiu Wetland, South China Sea. <i>Science of the Total Environment</i> , 2021, 788, 147809.	3.9	33
277	Raman Spectroscopy for the Analysis of Microplastics in Aquatic Systems. <i>Applied Spectroscopy</i> , 2021, 75, 1341-1357.	1.2	78



#	ARTICLE	IF	CITATIONS
278	Microplastic concentrations, characteristics, and fluxes in water bodies of the Tollense catchment, Germany, with regard to different sampling systems. <i>Environmental Science and Pollution Research</i> , 2022, 29, 11345-11358.	2.7	12
279	Source- and polymer-specific size distributions of fine microplastics in surface water in an urban river. <i>Environmental Pollution</i> , 2021, 284, 117516.	3.7	32
280	Microplastics pollution on Colombian Central Caribbean beaches. <i>Marine Pollution Bulletin</i> , 2021, 170, 112685.	2.3	47
281	A multilevel dataset of microplastic abundance in the world's upper ocean and the Laurentian Great Lakes. <i>Microplastics and Nanoplastics</i> , 2021, 1, .	4.1	80
282	Uptake and absorption of fluoranthene from spiked microplastics into the digestive gland tissues of blue mussels, <i>Mytilus edulis</i> L.. <i>Chemosphere</i> , 2021, 279, 130480.	4.2	16
283	Temporal Variability of Microparticles Under the Seattle Aquarium, Washington State: Documenting the Global Covid-19 Pandemic. <i>Environmental Toxicology and Chemistry</i> , 2021, , .	2.2	7
284	Environmental impacts of microplastics on fishery products: An overview. <i>Gondwana Research</i> , 2022, 108, 213-220.	3.0	15
285	Separation of microplastics from mass-limited samples by an effective adsorption technique. <i>Science of the Total Environment</i> , 2021, 788, 147881.	3.9	24
286	Microplastics contamination in pearl-farming lagoons of French Polynesia. <i>Journal of Hazardous Materials</i> , 2021, 419, 126396.	6.5	28
287	Vertical microplastic distribution in sediments of Fuhe River estuary to Baiyangdian Wetland in Northern China. <i>Chemosphere</i> , 2021, 280, 130800.	4.2	63
288	Microplastic pollution in the Weser estuary and the German North Sea. <i>Environmental Pollution</i> , 2021, 288, 117681.	3.7	33
289	Variation in polymer types and abundance of microplastics from two rivers and beaches in Adelaide, South Australia. <i>Marine Pollution Bulletin</i> , 2021, 172, 112842.	2.3	22
290	A proposed nomenclature for microplastic contaminants. <i>Marine Pollution Bulletin</i> , 2021, 172, 112960.	2.3	5
291	Investigation of operational parameters for retaining properties of micro-plastics for typical aerobic wastewater treatment unit. <i>Chemical Engineering Journal</i> , 2021, 423, 130254.	6.6	4
292	Positively buoyant but sinking: Polymer identification and composition of marine litter at the seafloor of the North Sea and Baltic Sea. <i>Marine Pollution Bulletin</i> , 2021, 172, 112876.	2.3	15
293	Marine microplastics in the surface waters of the pristine Kuroshio. <i>Marine Pollution Bulletin</i> , 2021, 172, 112808.	2.3	9
294	Thin synthetic fibers sinking in still and convectively mixing water: laboratory experiments and projection to oceanic environment. <i>Environmental Pollution</i> , 2021, 288, 117714.	3.7	24
295	How fast, how far: Diversification and adoption of novel methods in aquatic microplastic monitoring. <i>Environmental Pollution</i> , 2021, 291, 118174.	3.7	1

#	ARTICLE	IF	CITATIONS
296	Floating plastics in oceans: A matter of size. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 32, 100543.	3.2	1
297	Relationships between size and abundance in beach plastics: A power-law approach. <i>Marine Pollution Bulletin</i> , 2021, 173, 113005.	2.3	5
298	Continental microplastics: Presence, features, and environmental transport pathways. <i>Science of the Total Environment</i> , 2021, 799, 149447.	3.9	51
299	Cross-oceanic distribution and origin of microplastics in the subsurface water of the South China Sea and Eastern Indian Ocean. <i>Science of the Total Environment</i> , 2022, 805, 150243.	3.9	21
300	Effect of environmentally relevant concentrations of potentially toxic microplastic on coastal copepods. <i>Aquatic Toxicology</i> , 2021, 230, 105713.	1.9	20
301	Nanofragmentation of Expanded Polystyrene Under Simulated Environmental Weathering (Thermooxidative Degradation and Hydrodynamic Turbulence). <i>Frontiers in Marine Science</i> , 2021, 7, .	1.2	35
302	Marine microplastics as vectors of major ocean pollutants and its hazards to the marine ecosystem and humans. <i>Progress in Earth and Planetary Science</i> , 2021, 8, .	1.1	225
303	Abundance of non-conservative microplastics in the upper ocean from 1957 to 2066. <i>Nature Communications</i> , 2019, 10, .	5.8	1
304	Microplastics in seawater: sampling strategies, laboratory methodologies, and identification techniques applied to port environment. , 2020, 27, 8938.		1
305	Microplastics in a deep, dimictic lake of the North German Plain with special regard to vertical distribution patterns. <i>Environmental Pollution</i> , 2020, 267, 115507.	3.7	35
306	Preferential adsorption of Cd, Cs and Zn onto virgin polyethylene microplastic versus sediment particles. <i>Marine Pollution Bulletin</i> , 2020, 156, 111223.	2.3	33
307	Currently monitored microplastics pose negligible ecological risk to the global ocean. <i>Scientific Reports</i> , 2020, 10, 22281.	1.6	67
308	Plastic in Marine Litter. <i>Issues in Environmental Science and Technology</i> , 2018, , 21-59.	0.4	3
309	Transport of marine microplastic particles: why is it so difficult to predict?. <i>Anthropocene Coasts</i> , 2019, 2, 293-305.	0.6	54
310	The effects of microplastics on marine ecosystem and future research directions. <i>Hangug Hwangyeong Saengmul Haghoeji</i> , 2019, 37, 625-639.	0.1	4
311	Identification of microplastics in a large water volume by integrated holography and Raman spectroscopy. <i>Applied Optics</i> , 2020, 59, 5073.	0.9	31
312	A near-synoptic survey of ocean microplastic concentration along an around-the-world sailing race. <i>PLoS ONE</i> , 2020, 15, e0243203.	1.1	17
313	No evidence of microplastic consumption by the copepod, <i>Temora longicornis</i> (Müller, 1785) in Chichester Harbour, United Kingdom. <i>Nauplius</i> , 0, 28, .	0.3	8

#	ARTICLE	IF	CITATIONS
314	Plastic Litter as Pollutant in the Aquatic Environment: A mini-review. Jurnal Ilmiah Perikanan Dan Kelautan, 2020, 12, 167.	0.4	5
315	Marine Environmental Plastic Pollution: Mitigation by Microorganism Degradation and Recycling Valorization. Frontiers in Marine Science, 2020, 7, .	1.2	86
316	Modelling mussel (&lt;i&gt;Mytilus spp.&lt;/i&gt;) microplastic accumulation. Ocean Science, 2020, 16, 927-949.	1.3	14
317	Filter-less separation technique for micronized anthropogenic polymers from artificial seawater. Environmental Science: Water Research and Technology, 0, , .	1.2	2
318	Microplastics Variability in Subsurface Water from Arctic to Antarctic. SSRN Electronic Journal, 0, , .	0.4	0
319	Reducing environmental plastic pollution by designing polymer materials for managed end-of-life. Nature Reviews Materials, 2022, 7, 104-116.	23.3	163
320	Bivalves as Biological Sieves: Bioreactivity Pathways of Microplastics and Nanoplastics. Biological Bulletin, 2021, 241, 185-195.	0.7	11
321	Analytical Chemistry of Plastic Debris: Sampling, Methods, and Instrumentation. Environmental Contamination Remediation and Management, 2022, , 17-67.	0.5	4
322	Evaluating Microplastic Experimental Design and Exposure Studies in Aquatic Organisms. Environmental Contamination Remediation and Management, 2022, , 69-85.	0.5	1
323	Microplastics in the Center of Mediterranean: Comparison of the Two Calabrian Coasts and Distribution from Coastal Areas to the Open Sea. International Journal of Environmental Research and Public Health, 2021, 18, 10712.	1.2	19
324	Microplastics in fish meals: An exposure route for aquaculture animals. Science of the Total Environment, 2022, 807, 151049.	3.9	28
325	Earthworms ingest microplastic fibres and nanoplastics with effects on egestion rate and long-term retention. Science of the Total Environment, 2022, 807, 151022.	3.9	62
327	Meteorological and climatic variability influences anthropogenic microparticle content in the stomach of the European anchovy <i>Engraulis encrasicolus</i> . Hydrobiologia, 2022, 849, 589-602.	1.0	4
329	Distribution of Microplastics in the Marine Environment. , 2021, , 1-35.		8
330	Mathematical modeling of microplastic abundance, distribution, and transport in water environments: A review. Chemosphere, 2022, 288, 132517.	4.2	41
331	Microplastics: An Emerging Threat to the Aquatic Ecosystem. Environmental Chemistry for A Sustainable World, 2020, , 113-143.	0.3	0
332	Plastics and Microplastics: Impacts in the Marine Environment. , 2020, , 49-72.		8
333	Microplastics. Advances in Environmental Engineering and Green Technologies Book Series, 2020, , 106-122.	0.3	3

#	ARTICLE	IF	CITATIONS
334	Microplastics Uptake and Egestion Dynamics in Pacific Oysters, <i>Magallana Gigas</i> (Thunberg, 1793), Under Controlled Conditions. Springer Water, 2020, , 198-204.	0.2	1
335	Cross-Contamination as a Problem in Collection and Analysis of Environmental Samples Containing Microplastics—A Review. <i>Sustainability</i> , 2021, 13, 12123.	1.6	18
336	Airborne microplastic concentrations and deposition across the Weser River catchment. <i>Science of the Total Environment</i> , 2022, 818, 151812.	3.9	47
337	Systematical insights into distribution and characteristics of microplastics in near-surface waters from the East Asian Seas to the Arctic Central Basin. <i>Science of the Total Environment</i> , 2022, 814, 151923.	3.9	9
338	A model for the size distribution of marine microplastics: A statistical mechanics approach. <i>PLoS ONE</i> , 2021, 16, e0259781.	1.1	12
339	Identification and characterisation of individual nanoplastics by scanning transmission X-ray microscopy (STXM). <i>Journal of Hazardous Materials</i> , 2022, 426, 127804.	6.5	22
340	Widespread occurrence of microplastic pollution in open sea surface waters: Evidence from the mid-North Pacific Ocean. <i>Gondwana Research</i> , 2022, 108, 31-40.	3.0	20
341	Intergenerational effects of environmentally-aged microplastics on the <i>Crassostrea gigas</i> . <i>Environmental Pollution</i> , 2022, 294, 118600.	3.7	24
342	Spatial Distribution of Microplastics in the Tropical Indian Ocean Based on Laser Direct Infrared Imaging and Microwave-Assisted Matrix Digestion. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
343	Micro and Nano-Plastics in the Environment: Research Priorities for the Near Future. <i>Reviews of Environmental Contamination and Toxicology</i> , 2021, 257, 163-218.	0.7	8
344	Microplastics and nanoplastics science: collecting and characterizing airborne microplastics in fine particulate matter. <i>Nanotoxicology</i> , 2021, 15, 1253-1278.	1.6	21
345	Ingested microplastics impair the metabolic relationship between the giant clam <i>Tridacna crocea</i> and its symbionts. <i>Aquatic Toxicology</i> , 2022, 243, 106075.	1.9	3
346	Adsorption of benzalkonium chlorides onto polyethylene microplastics: Mechanism and toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2022, 426, 128076.	6.5	24
347	Methods for sampling, processing, identification, and quantification of microplastics in the marine environment. <i>Oceanography in Japan</i> , 2020, 29, 129-151.	0.5	7
348	Plastic Waste Management: Global Facts, Challenges and Solutions. , 2020, , .		3
349	Micro/nano-plastics occurrence, identification, risk analysis and mitigation: challenges and perspectives. <i>Reviews in Environmental Science and Biotechnology</i> , 2022, 21, 169-203.	3.9	77
350	Chemical composition of microplastics floating on the surface of the Mediterranean Sea. <i>Marine Pollution Bulletin</i> , 2022, 174, 113284.	2.3	23
351	Large quantities of small microplastics permeate the surface ocean to abyssal depths in the South Atlantic Gyre. <i>Global Change Biology</i> , 2022, 28, 2991-3006.	4.2	43

#	ARTICLE	IF	CITATIONS
353	The Ecotoxicological Effects of Microplastics on Trophic Levels of Aquatic Ecosystems. <i>Emerging Contaminants and Associated Treatment Technologies</i> , 2022, , 389-428.	0.4	3
354	Extraction, Enumeration, and Identification Methods for Monitoring Microplastics in the Aquatic Environment. <i>Emerging Contaminants and Associated Treatment Technologies</i> , 2022, , 21-66.	0.4	2
355	Microplastic variability in subsurface water from the Arctic to Antarctica. <i>Environmental Pollution</i> , 2022, 298, 118808.	3.7	25
356	Microplastics can alter phytoplankton community composition. <i>Science of the Total Environment</i> , 2022, 819, 153074.	3.9	30
357	Spatial and vertical distribution of microplastics and their ecological risk in an Indian freshwater lake ecosystem. <i>Science of the Total Environment</i> , 2022, 820, 153337.	3.9	32
358	Targeted Analysis of Microplastics Using Discrete Frequency Infrared Imaging. <i>Analytical Chemistry</i> , 2022, 94, 3029-3034.	3.2	4
359	Spatial Distribution and Composition of Surface Microplastics in the Southwestern South China Sea. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	1
360	Label-Free Live-Cell Imaging of Internalized Microplastics and Cytoplasmic Organelles with Multicolor CARS Microscopy. <i>Environmental Science &amp; Technology</i> , 2022, 56, 3045-3055.	4.6	5
361	Airborne and marine microplastics from an oceanographic survey at the Baltic Sea: An emerging role of air-sea interaction?. <i>Science of the Total Environment</i> , 2022, 824, 153709.	3.9	44
362	An Integrative Assessment of the Plastic Debris Load in the Mediterranean Sea. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
363	Microplastics Separation Using Stainless Steel Mini-Hydrocyclones Fabricated with Additive Manufacturing. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
364	Distribution of Microplastics in the Marine Environment. , 2022, , 813-847.		1
365	Determining the appropriate number of particles on a filter to allow small microplastics to be analyzed by microscopy. <i>MethodsX</i> , 2022, 9, 101646.	0.7	3
366	Determination of phytoplankton in water samples, algal biotoxins, microbiological parameters and microplastics in Mediterranean mussels ( <i>Mytilus galloprovincialis</i> Lamarck, 1819) from an experimental pilot farm in the Calich Lagoon (Sardinia, Italy). <i>Italian Journal of Food Safety</i> , 2022, 11, 9973.	0.5	2
367	Anthropogenic microfibrils flux in an Antarctic coastal ecosystem: The tip of an iceberg?. <i>Marine Pollution Bulletin</i> , 2022, 175, 113388.	2.3	11
368	Investigation of microplastic pollution in Arctic fjord water: a case study of Rjppfjorden, Northern Svalbard. <i>Environmental Science and Pollution Research</i> , 2022, 29, 56525-56534.	2.7	7
369	Microplastics in the surface sediments of Krossfjord-Kongsfjord system, Svalbard, Arctic. <i>Marine Pollution Bulletin</i> , 2022, 176, 113452.	2.3	16
370	Yellowing, Weathering and Degradation of Marine Pellets and Their Influence on the Adsorption of Chemical Pollutants. <i>Polymers</i> , 2022, 14, 1305.	2.0	13

#	ARTICLE	IF	CITATIONS
371	Empirical Lagrangian parametrization for wind-driven mixing of buoyant particles at the ocean surface. <i>Geoscientific Model Development</i> , 2022, 15, 1995-2012.	1.3	10
372	Microplastic abundance and biodiversity richness overlap: Identification of sensitive areas in the Western Ionian Sea. <i>Marine Pollution Bulletin</i> , 2022, 177, 113550.	2.3	14
373	Residual additives in marine microplastics and their risk assessment – A critical review. <i>Marine Pollution Bulletin</i> , 2022, 177, 113467.	2.3	44
374	Microplastics in the surface waters of the South China sea and the western Pacific Ocean: Different size classes reflecting various sources and transport. <i>Chemosphere</i> , 2022, 299, 134456.	4.2	26
375	Ingestion and toxic impacts of weathered polyethylene (wPE) microplastics and stress defensive responses in whiteleg shrimp ( <i>Penaeus vannamei</i> ). <i>Chemosphere</i> , 2022, 300, 134487.	4.2	14
376	Sources, spatial distribution, and abundance of marine debris on Thondi coast, Palk Bay, Southeast coast of India. <i>Environmental Sciences Europe</i> , 2021, 33, .	2.6	7
377	Evidence of Microplastic Size Impact on Mobility and Transport in the Marine Environment: A Review and Synthesis of Recent Research. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	44
378	Transport of microplastics in the South China Sea: A review. <i>Gondwana Research</i> , 2022, 108, 49-59.	3.0	15
382	Impact of 2018 Kerala flood on the abundance and distribution of microplastics in marine environment off Cochin, Southeastern Arabian Sea, India. <i>Regional Studies in Marine Science</i> , 2022, 53, 102367.	0.4	5
383	Microplastics in freshwater environment: occurrence, analysis, impact, control measures and challenges. <i>International Journal of Environmental Science and Technology</i> , 2023, 20, 6865-6896.	1.8	10
384	Ingestion and egestion of polystyrene microplastic fragments by the Pacific oyster, <i>Crassostrea gigas</i> . <i>Environmental Pollution</i> , 2022, 307, 119217.	3.7	4
385	First long-term evidence of microplastic pollution in the deep subtropical Northeast Atlantic. <i>Environmental Pollution</i> , 2022, 305, 119302.	3.7	9
393	Modelling submerged biofouled microplastics and their vertical trajectories. <i>Biogeosciences</i> , 2022, 19, 2211-2234.	1.3	22
394	Seasonal evaluation of floating microplastics in a shallow Mediterranean coastal lagoon: Abundance, distribution, chemical composition, and influence of environmental factors. <i>Estuarine, Coastal and Shelf Science</i> , 2022, 272, 107859.	0.9	10
395	Effect of freeze-thaw cycle aging and high-temperature oxidation aging on the sorption of atrazine by microplastics. <i>Environmental Pollution</i> , 2022, 307, 119434.	3.7	18
396	Impacts of underwater topography on the distribution of microplastics in lakes: A case from Dianchi Lake, China. <i>Science of the Total Environment</i> , 2022, 837, 155708.	3.9	12
397	Catchment-wide flooding significantly altered microplastics organization in the hydro-fluctuation belt of the reservoir. <i>IScience</i> , 2022, 25, 104401.	1.9	9
398	Metabolomic disorders unveil hepatotoxicity of environmental microplastics in wild fish <i>Serranus scriba</i> (Linnaeus 1758). <i>Science of the Total Environment</i> , 2022, 838, 155872.	3.9	22

#	ARTICLE	IF	CITATIONS
399	An integrative assessment of the plastic debris load in the Mediterranean Sea. <i>Science of the Total Environment</i> , 2022, 838, 155958.	3.9	15
400	Adsorption of organic pollutants by microplastics: Overview of a dissonant literature. <i>Journal of Hazardous Materials Advances</i> , 2022, 6, 100091.	1.2	18
401	Current and future applications of IR and NIR spectroscopy in ecology, environmental studies, wildlife and plant investigations. <i>Comprehensive Analytical Chemistry</i> , 2022, , 45-76.	0.7	5
405	Spatial distribution of microplastics in the tropical Indian Ocean based on laser direct infrared imaging and microwave-assisted matrix digestion. <i>Environmental Pollution</i> , 2022, 307, 119547.	3.7	18
406	High abundance of microplastics in groundwater in Jiaodong Peninsula, China. <i>Science of the Total Environment</i> , 2022, 839, 156318.	3.9	24
407	First assessment of microplastic and artificial microfiber contamination in surface waters of the Amazon Continental Shelf. <i>Science of the Total Environment</i> , 2022, 839, 156259.	3.9	12
408	Analysis of Microplastic Particle Transmission. <i>Journal of Maritime &amp; Transportation Science</i> , 2022, Special edition 4, 237-244.	0.2	0
409	Novel measurement method of determining PS nanoplastic concentration via AuNPs aggregation with NaCl. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 2842-2848.	1.2	3
410	Spatio-temporal contamination of microplastics in shellfish farming regions: A case study. <i>Marine Pollution Bulletin</i> , 2022, 181, 113842.	2.3	5
411	Assessment of manta trawling and two newly-developed surface water microplastic monitoring techniques in the open sea. <i>Science of the Total Environment</i> , 2022, 842, 156803.	3.9	4
412	Seasonal and Spatial Variations in Microplastics Abundances in St. Andrew Bay, Florida. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
413	Does size matter? A proteomics-informed comparison of the effects of polystyrene beads of different sizes on macrophages. <i>Environmental Science: Nano</i> , 2022, 9, 2827-2840.	2.2	4
414	Shape dependence of the release rate of chemicals from plastic microparticles. <i>Environmental Science and Pollution Research</i> , 2022, 29, 88055-88064.	2.7	1
415	Microplastics in Seawater, Sediment, and Organisms from Hangzhou Bay. <i>Marine Pollution Bulletin</i> , 2022, 181, 113940.	2.3	19
416	Geological evolution of offshore pollution and its long-term potential impacts on marine ecosystems. <i>Geoscience Frontiers</i> , 2022, 13, 101427.	4.3	70
417	Performance assessment of bubbles barriers for microplastic remediation. <i>Science of the Total Environment</i> , 2022, 844, 157027.	3.9	9
418	Risk associated with microplastics in urban aquatic environments: A critical review. <i>Journal of Hazardous Materials</i> , 2022, 439, 129587.	6.5	16
419	Removal of nanoplastics in water treatment processes: A review. <i>Science of the Total Environment</i> , 2022, 845, 157168.	3.9	38

#	ARTICLE	IF	CITATIONS
420	A case study on small-size microplastics in water and snails in an urban river. <i>Science of the Total Environment</i> , 2022, 847, 157461.	3.9	11
421	Floating microplastics pollution in the Central Atlantic Ocean of Morocco: Insights into the occurrence, characterization, and fate. <i>Marine Pollution Bulletin</i> , 2022, 182, 113969.	2.3	36
422	Changes in the microbiome and associated host tissue structure in the blue mussel ( <i>Mytilus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 60 719-731.	0.4	1
423	Ecotoxicological and health implications of microplastic-associated biofilms: a recent review and prospect for turning the hazards into benefits. <i>Environmental Science and Pollution Research</i> , 2022, 29, 70611-70634.	2.7	10
424	The removal of microplastics from water by coagulation: A comprehensive review. <i>Science of the Total Environment</i> , 2022, 851, 158224.	3.9	38
425	Assessing the toxicity of polystyrene beads and silica particles on the microconsumer <i>Brachionus calyciflorus</i> at different timescales. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	0
427	Occurrence and characteristics of microdebris in commercial fish species of Guyana, South America. <i>Marine Pollution Bulletin</i> , 2022, 182, 114021.	2.3	1
428	Toward a long-term monitoring program for seawater plastic pollution in the north Pacific Ocean: Review and global comparison. <i>Environmental Pollution</i> , 2022, 311, 119911.	3.7	9
429	Microplastics contamination in groundwater of a drinking-water source area, northern China. <i>Environmental Research</i> , 2022, 214, 114048.	3.7	16
430	Photodissolution of submillimeter-sized microplastics and its dependences on temperature and light composition. <i>Science of the Total Environment</i> , 2022, 848, 157714.	3.9	5
431	Presence and implications of plastics in wild commercial fishes in the Alboran Sea (Mediterranean) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 60	3.9	6
432	A colorimetric detection of polystyrene nanoplastics with gold nanoparticles in the aqueous phase. <i>Science of the Total Environment</i> , 2022, 850, 158058.	3.9	4
433	Assessing Microplastic Prevalence and Dispersion from Saigon Urban Canals via Can Gio Mangrove Reserve to East Sea by Raman Scattering Microscopy. <i>Microplastics</i> , 2022, 1, 536-553.	1.6	5
434	The atmospheric microplastics deposition contributes to microplastic pollution in urban waters. <i>Water Research</i> , 2022, 225, 119116.	5.3	49
435	Are sediment textural parameters an "influencer" of microplastics presence in beach environments?. <i>Marine Pollution Bulletin</i> , 2022, 184, 114125.	2.3	3
436	Thrushes (Aves: Passeriformes) as indicators of microplastic pollution in terrestrial environments. <i>Science of the Total Environment</i> , 2022, 853, 158621.	3.9	10
437	Microbial communities in plastisphere and free-living microbes for microplastic degradation: A comprehensive review. , 2022, 3, 100030.		11
438	Quantitative assessment of visual microscopy as a tool for microplastic research: Recommendations for improving methods and reporting. <i>Chemosphere</i> , 2022, 308, 136449.	4.2	27



#	ARTICLE	IF	CITATIONS
439	A 75-year history of microplastic fragment accumulation rates in a semi-enclosed hypoxic basin. <i>Science of the Total Environment</i> , 2023, 854, 158751.	3.9	11
440	Microplastics in aquatic systems, a comprehensive review: origination, accumulation, impact, and removal technologies. <i>RSC Advances</i> , 2022, 12, 28318-28340.	1.7	29
441	Assessing microplastic exposure of the Critically Endangered Mediterranean monk seal ( <i>Monachus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.9	8
442	Microbial strategies for degradation of microplastics generated from COVID-19 healthcare waste. <i>Environmental Research</i> , 2023, 216, 114438.	3.7	31
443	Toxic effects on enzymatic activity, gene expression and histopathological biomarkers in organisms exposed to microplastics and nanoplastics: a review. <i>Environmental Sciences Europe</i> , 2022, 34, .	2.6	18
444	Impact of Micro- and Nanoplastics on Mitochondria. <i>Metabolites</i> , 2022, 12, 897.	1.3	14
445	Physical and biomimetic treatment methods to reduce microplastic waste accumulation. <i>Molecular and Cellular Toxicology</i> , 2023, 19, 13-25.	0.8	4
446	Entrainment and vertical mixing of aquatic microplastics in turbulent flow: The coupled role of particle size and density. <i>Marine Pollution Bulletin</i> , 2022, 184, 114160.	2.3	10
448	A high-throughput, automated technique for microplastics detection, quantification, and characterization in surface waters using laser direct infrared spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 8353-8364.	1.9	13
449	Influence of Particle Size and Fragmentation on Large-Scale Microplastic Transport in the Mediterranean Sea. <i>Environmental Science &amp; Technology</i> , 2022, 56, 15528-15540.	4.6	17
450	Characterization of microplastics in the septic tank via laser direct infrared spectroscopy. <i>Water Research</i> , 2022, 226, 119293.	5.3	5
451	Contamination of sea surface water offshore the Tokai region and Tokyo Bay in Japan by small microplastics. <i>Marine Pollution Bulletin</i> , 2022, 185, 114245.	2.3	18
452	Comparison between the traditional Manta net and an innovative device for microplastic sampling in surface marine waters. <i>Marine Pollution Bulletin</i> , 2022, 185, 114237.	2.3	5
453	Microplastic materials in the environment: Problem and strategical solutions. <i>Progress in Materials Science</i> , 2023, 132, 101035.	16.0	44
454	Optical photothermal infrared spectroscopy with simultaneously acquired Raman spectroscopy for two-dimensional microplastic identification. <i>Scientific Reports</i> , 2022, 12, .	1.6	15
455	Microplastic contamination and microbial colonization in coastal area of Busan City, Korea. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	5
456	Plastic debris decrease fish feeding pressure on tropical reefs. <i>Marine Pollution Bulletin</i> , 2022, 185, 114330.	2.3	1
457	Fate and effects of microplastics in combination with pharmaceuticals and endocrine disruptors in freshwaters: Insights from a microcosm experiment. <i>Science of the Total Environment</i> , 2023, 859, 160387.	3.9	6

#	ARTICLE	IF	CITATIONS
458	Abundance and distribution of microplastics in surface waters of the Kattegat/ Skagerrak (Denmark). <i>Environmental Pollution</i> , 2023, 318, 120853.	3.7	14
459	Microplastics in the Inshore and Offshore Surface Water in the Andaman Sea. <i>Water, Air, and Soil Pollution</i> , 2022, 233, .	1.1	0
460	Marine Solid Pollution—From Macroplastics to Nanoplastics. , 2023, , 63-110.		0
461	Transboundary microplastic pollution in Xiamen Bay and adjacent Jiulong River estuary after the outbreak of COVID-19. <i>Science of the Total Environment</i> , 2023, 861, 160562.	3.9	5
462	The Behavior of Planktonic Copepods Minimizes the Entry of Microplastics in Marine Food Webs. <i>Environmental Science &amp; Technology</i> , 2023, 57, 179-189.	4.6	8
463	A baseline assessment of the relationship between microplastics and plasticizers in sediment samples collected from the Barcelona continental shelf. <i>Environmental Science and Pollution Research</i> , 2023, 30, 36311-36324.	2.7	6
464	Identification and quantification of potential microplastics in shellfish harvested in Sardinia (Italy) by using transillumination stereomicroscopy. <i>Italian Journal of Food Safety</i> , 2022, 11, .	0.5	0
465	Synthetic microplastic abundance and composition along a longitudinal gradient traversing the subtropical gyre in the North Atlantic Ocean. <i>Marine Pollution Bulletin</i> , 2022, 185, 114371.	2.3	11
466	Evidence and Mass Quantification of Atmospheric Microplastics in a Coastal New Zealand City. <i>Environmental Science &amp; Technology</i> , 2022, 56, 17556-17568.	4.6	24
467	Spatiotemporal characterisation of microplastics in the coastal regions of Singapore. <i>Heliyon</i> , 2023, 9, e12961.	1.4	9
468	Differences in the Fate of Surface and Subsurface Microplastics: A Case Study in the Central Atlantic. <i>Journal of Marine Science and Engineering</i> , 2023, 11, 210.	1.2	1
469	Microplastic pollution in the food web: observation of ingestion by the talitrid amphipod <i>Cryptorchestia garbinii</i> on the shores of Lake Garda. , 2023, 90, 73-82.		2
470	Warming and microplastic pollution shape the carbon and nitrogen cycles of algae. <i>Journal of Hazardous Materials</i> , 2023, 447, 130775.	6.5	9
471	Analysis of the literature shows a remarkably consistent relationship between size and abundance of microplastics across different environmental matrices. <i>Environmental Pollution</i> , 2023, 319, 120984.	3.7	9
472	Exploration of occurrence and sources of microplastics (>10 µm) in Danish marine waters. <i>Science of the Total Environment</i> , 2023, 865, 161255.	3.9	12
473	The Complex Dynamics of Microplastic Migration through Different Aquatic Environments: Subsidies for a Better Understanding of Its Environmental Dispersion. <i>Microplastics</i> , 2023, 2, 62-77.	1.6	5
474	Investigation of dynamic change in microplastics vertical distribution patterns: The seasonal effect on vertical distribution. <i>Marine Pollution Bulletin</i> , 2023, 189, 114674.	2.3	6
475	Micro- and nanoplastic toxicity: A review on size, type, source, and test-organism implications. <i>Science of the Total Environment</i> , 2023, 878, 162954.	3.9	15

#	ARTICLE	IF	CITATIONS
476	Nanoplastics pose a greater effect than microplastics in enhancing mercury toxicity to marine copepods. <i>Chemosphere</i> , 2023, 325, 138371.	4.2	6
477	Misinterpretation in microplastic detection in biological tissues: When 2D imaging is not enough. <i>Science of the Total Environment</i> , 2023, 876, 162810.	3.9	4
478	Quantification and characterization of microplastics in surface water samples from the Northeast Atlantic Ocean using laser direct infrared imaging. <i>Marine Pollution Bulletin</i> , 2023, 190, 114880.	2.3	5
479	Microplastics pollution studies in India: A recent review of sources, abundances and research perspectives. <i>Regional Studies in Marine Science</i> , 2023, 61, 102863.	0.4	1
480	Insight into the marine microplastic abundance and distribution in ship cooling systems. <i>Journal of Environmental Management</i> , 2023, 339, 117940.	3.8	2
481	Particle uptake by filter-feeding macrofoulers from the Mar Grande of Taranto (Mediterranean Sea), Tj ETQq1 1 0.784314 rgBT /Overl	2.3	4
482	Microplastic pollution in a small fishing port in Zonguldak/Turkey. <i>Environmental Research and Technology</i> , 0, , .	0.8	0
483	Effects of organic matter on the aggregation of anthropogenic microplastic particles in turbulent environments. <i>Water Research</i> , 2023, 232, 119706.	5.3	3
484	Biotechnological methods to remove microplastics: a review. <i>Environmental Chemistry Letters</i> , 2023, 21, 1787-1810.	8.3	30
485	Are seafloor habitats influencing the distribution of microplastics in coastal sediments of a Marine Protected Area?. <i>Environmental Science and Pollution Research</i> , 2023, 30, 49875-49888.	2.7	6
486	Substantial burial of terrestrial microplastics in the Three Gorges Reservoir, China. <i>Communications Earth &amp; Environment</i> , 2023, 4, .	2.6	11
487	A Public Database for Microplastics in the Environment. <i>Microplastics</i> , 2023, 2, 132-146.	1.6	5
488	Methodology of Assessing Microplastics and Nanoplastics in the Environment: Recent Advances in the Practical Approaches. , 2023, , 59-95.		0
489	Sorting microplastics from other materials in water samples by ultra-high-definition imaging. <i>Journal of the European Optical Society-Rapid Publications</i> , 2023, 19, 14.	0.9	3
490	Chemical composition of microplastics floating on the Mediterranean Sea surface. , 0, , 484-493.		0
491	Comparative evaluation of the carbonyl index of microplastics around the Japan coast. <i>Marine Pollution Bulletin</i> , 2023, 190, 114818.	2.3	10
492	Ingestion of microplastics by copepods in Tampa Bay Estuary, FL. <i>Frontiers in Ecology and Evolution</i> , 0, 11, .	1.1	3
494	RamaCam: autonomous in-situ monitoring system of marine particles by combining holography and Raman spectroscopy. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
496	Microplastic Pollution: Sources, Environmental Hazards, and Mycoremediation as a Sustainable Solution. , 2023, , 127-156.		1
503	Microplastics in Mediterranean Seawater. SpringerBriefs in Environmental Science, 2023, , 67-81.	0.3	0
524	Occurrence and Source of Microplastic in the Environment. , 2023, , 18-44.		0
530	A review of recent progress in the application of Raman spectroscopy and SERS detection of microplastics and derivatives. Mikrochimica Acta, 2023, 190, .	2.5	3
538	Ecotoxicological effects of antibiotic adsorption behavior of microplastics and its management measures. Environmental Science and Pollution Research, 0, , .	2.7	0
543	Nanoplastics in aquatic environmentsâ€™ Sources, sampling techniques, and identification methods. , 2024, , 381-397.		0