

# Bacterial Community Profiling of Plastic Litter in the Be

Environmental Science & Technology

49, 9629-9638

DOI: [10.1021/acs.est.5b01093](https://doi.org/10.1021/acs.est.5b01093)

Citation Report

#	ARTICLE	IF	CITATIONS
3	Dangerous hitchhikers? Evidence for potentially pathogenic <i>Vibrio</i> spp. on microplastic particles. <i>Marine Environmental Research</i> , 2016, 120, 1-8.	1.1	629
4	Exploring the methanogen and bacterial communities of rumen environments: solid adherent, fluid and epimural. <i>FEMS Microbiology Ecology</i> , 2017, 93, fiw251.	1.3	83
5	The utility of DNA metabarcoding for studying the response of arthropod diversity and composition to land-use change in the tropics. <i>Scientific Reports</i> , 2016, 6, 24965.	1.6	84
6	Microbial hitchhikers on marine plastic debris: Human exposure risks at bathing waters and beach environments. <i>Marine Environmental Research</i> , 2016, 118, 10-19.	1.1	259
7	Colonization of Polystyrene Microparticles by <i>Vibrio crassostreae</i> : Light and Electron Microscopic Investigation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 10988-10996.	4.6	104
8	Polystyrene influences bacterial assemblages in <i>Arenicola marina</i> -populated aquatic environments in vitro. <i>Environmental Pollution</i> , 2016, 219, 219-227.	3.7	44
9	Microplastics in the aquatic and terrestrial environment: sources (with a specific focus on personal) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	2.6	1,061
10	Fate of Eight Different Polymers under Uncontrolled Composting Conditions: Relationships Between Deterioration, Biofilm Formation, and the Material Surface Properties. <i>Environmental Science &amp; Technology</i> , 2017, 51, 1988-1997.	4.6	47
11	Interactions of microplastic debris throughout the marine ecosystem. <i>Nature Ecology and Evolution</i> , 2017, 1, 116.	3.4	1,181
12	Plastics in the North Atlantic garbage patch: A boat-microbe for hitchhikers and plastic degraders. <i>Science of the Total Environment</i> , 2017, 599-600, 1222-1232.	3.9	274
13	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
14	Temporal Dynamics of Bacterial and Fungal Colonization on Plastic Debris in the North Sea. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7350-7360.	4.6	239
15	A review of microscopy and comparative molecular-based methods to characterize "Plastisphere" communities. <i>Analytical Methods</i> , 2017, 9, 2132-2143.	1.3	76
16	Impact of Polymer Colonization on the Fate of Organic Contaminants in Sediment. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10555-10561.	4.6	41
17	Microplastics as a vector for the transport of the bacterial fish pathogen species <i>Aeromonas salmonicida</i> . <i>Marine Pollution Bulletin</i> , 2017, 125, 301-309.	2.3	286
18	Fate and stability of polyamide-associated bacterial assemblages after their passage through the digestive tract of the blue mussel <i>Mytilus edulis</i> . <i>Marine Pollution Bulletin</i> , 2017, 125, 132-138.	2.3	24
19	Extracting DNA from ocean microplastics: a method comparison study. <i>Analytical Methods</i> , 2017, 9, 1521-1526.	1.3	46
20	Surfing and dining on the "Plastisphere": Microbial life on plastic marine debris. <i>Advances in Oceanography and Limnology</i> , 2017, 8, .	0.2	45

#	ARTICLE	IF	CITATIONS
21	Microplastic pollution increases gene exchange in aquatic ecosystems. <i>Environmental Pollution</i> , 2018, 237, 253-261.	3.7	397
22	Evidence for selective bacterial community structuring on microplastics. <i>Environmental Microbiology</i> , 2018, 20, 2796-2808.	1.8	261
23	Collected marine litter " A growing waste challenge. <i>Marine Pollution Bulletin</i> , 2018, 128, 162-174.	2.3	80
24	Plastic waste associated with disease on coral reefs. <i>Science</i> , 2018, 359, 460-462.	6.0	540
25	Microplastic-associated bacterial assemblages in the intertidal zone of the Yangtze Estuary. <i>Science of the Total Environment</i> , 2018, 624, 48-54.	3.9	263
26	Microplastics: New substrates for heterotrophic activity contribute to altering organic matter cycles in aquatic ecosystems. <i>Science of the Total Environment</i> , 2018, 635, 1152-1159.	3.9	121
27	Evidence of niche partitioning among bacteria living on plastics, organic particles and surrounding seawaters. <i>Environmental Pollution</i> , 2018, 236, 807-816.	3.7	279
28	Microplastic-Associated Biofilms: A Comparison of Freshwater and Marine Environments. <i>Handbook of Environmental Chemistry</i> , 2018, , 181-201.	0.2	85
29	The impact of artificial surfaces on marine bacterial and eukaryotic biofouling assemblages: A high-throughput sequencing analysis. <i>Marine Environmental Research</i> , 2018, 133, 57-66.	1.1	54
30	Freshwater Microplastics. <i>Handbook of Environmental Chemistry</i> , 2018, , .	0.2	215
31	Deep-sea anthropogenic macrodebris harbours rich and diverse communities of bacteria and archaea. <i>PLoS ONE</i> , 2018, 13, e0206220.	1.1	38
32	Mature biofilm communities on synthetic polymers in seawater - Specific or general?. <i>Marine Environmental Research</i> , 2018, 142, 147-154.	1.1	147
33	Enabling large-scale feather mite studies: an Illumina DNA metabarcoding pipeline. <i>Experimental and Applied Acarology</i> , 2018, 76, 81-97.	0.7	12
34	Ability of fungi isolated from plastic debris floating in the shoreline of a lake to degrade plastics. <i>PLoS ONE</i> , 2018, 13, e0202047.	1.1	107
35	Constraints and Priorities for Conducting Experimental Exposures of Marine Organisms to Microplastics. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	178
36	Environmental Factors Support the Formation of Specific Bacterial Assemblages on Microplastics. <i>Frontiers in Microbiology</i> , 2017, 8, 2709.	1.5	349
37	Microplastic bacterial communities in the Bay of Brest: Influence of polymer type and size. <i>Environmental Pollution</i> , 2018, 242, 614-625.	3.7	280
38	Degradation of plastics and plastic-degrading bacteria in cold marine habitats. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 7669-7678.	1.7	340

#	ARTICLE	IF	CITATIONS
39	Effects of microplastics on trophic parameters, abundance and metabolic activities of seawater and fish gut bacteria in mesocosm conditions. <i>Environmental Science and Pollution Research</i> , 2018, 25, 30067-30083.	2.7	35
40	Identification of microplastics using Raman spectroscopy: Latest developments and future prospects. <i>Water Research</i> , 2018, 142, 426-440.	5.3	512
41	Marine microplastic debris: An emerging issue for food security, food safety and human health. <i>Marine Pollution Bulletin</i> , 2018, 133, 336-348.	2.3	947
42	Plastic sources: A survey across scientific and grey literature for their inventory and relative contribution to microplastics pollution in natural environments, with an emphasis on surface water. <i>Science of the Total Environment</i> , 2019, 693, 133499.	3.9	210
43	LDPE microplastic films alter microbial community composition and enzymatic activities in soil. <i>Environmental Pollution</i> , 2019, 254, 112983.	3.7	392
44	Colonization Characteristics of Bacterial Communities on Plastic Debris Influenced by Environmental Factors and Polymer Types in the Haihe Estuary of Bohai Bay, China. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10763-10773.	4.6	148
45	Microplastics as contaminants in the soil environment: A mini-review. <i>Science of the Total Environment</i> , 2019, 691, 848-857.	3.9	413
46	Spatial Environmental Heterogeneity Determines Young Biofilm Assemblages on Microplastics in Baltic Sea Mesocosms. <i>Frontiers in Microbiology</i> , 2019, 10, 1665.	1.5	112
47	The plastisphere in marine ecosystem hosts potential specific microbial degraders including <i>Alcanivorax borkumensis</i> as a key player for the low-density polyethylene degradation. <i>Journal of Hazardous Materials</i> , 2019, 380, 120899.	6.5	231
48	Microplastics as vectors of contaminants. <i>Marine Pollution Bulletin</i> , 2019, 146, 921-924.	2.3	196
49	Microplastics from mulching film is a distinct habitat for bacteria in farmland soil. <i>Science of the Total Environment</i> , 2019, 688, 470-478.	3.9	313
50	Phase Transition and Superconductivity Enhancement in Se-Substituted MoTe <sub>2</sub> Thin Films. <i>Advanced Materials</i> , 2019, 31, e1904641.	11.1	34
51	Selective enrichment of bacterial pathogens by microplastic biofilm. <i>Water Research</i> , 2019, 165, 114979.	5.3	408
52	Selective bacterial colonization processes on polyethylene waste samples in an abandoned landfill site. <i>Scientific Reports</i> , 2019, 9, 14138.	1.6	77
53	Bacterial Candidates for Colonization and Degradation of Marine Plastic Debris. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11636-11643.	4.6	178
54	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
55	Microbial biofilm formation and community structure on low-density polyethylene microparticles in lake water microcosms. <i>Environmental Pollution</i> , 2019, 252, 94-102.	3.7	126
56	Long-term microbial community dynamics at two full-scale biotrickling filters treating pig house exhaust air. <i>Microbial Biotechnology</i> , 2019, 12, 775-786.	2.0	11

#	ARTICLE	IF	CITATIONS
57	Marine microplastic-associated bacterial community succession in response to geography, exposure time, and plastic type in China's coastal seawaters. <i>Marine Pollution Bulletin</i> , 2019, 145, 278-286.	2.3	100
58	Shotgun Metagenomics Reveals the Benthic Microbial Community Response to Plastic and Bioplastic in a Coastal Marine Environment. <i>Frontiers in Microbiology</i> , 2019, 10, 1252.	1.5	128
59	Occurrence and distribution of microplastics in the surface water and sediment of two typical estuaries in Bohai Bay, China. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1143-1152.	1.7	79
60	Biodegradation of oil-based plastics in the environment: Existing knowledge and needs of research and innovation. <i>Science of the Total Environment</i> , 2019, 679, 148-158.	3.9	143
61	The Plastisphere â€œ Uncovering tightly attached plastic â€œspecificâ€•microorganisms. <i>PLoS ONE</i> , 2019, 14, e0215859.	1.1	168
62	Fungi in the Marine Environment: Open Questions and Unsolved Problems. <i>MBio</i> , 2019, 10, .	1.8	200
63	Plastics in sea surface waters around the Antarctic Peninsula. <i>Scientific Reports</i> , 2019, 9, 3977.	1.6	210
64	Microplastic exposure and effects in aquatic organisms: A physiological perspective. <i>Environmental Toxicology and Pharmacology</i> , 2019, 68, 37-51.	2.0	221
65	Water and health: From environmental pressures to integrated responses. <i>Acta Tropica</i> , 2019, 193, 217-226.	0.9	110
66	Dispersal of potentially pathogenic bacteria by plastic debris in Guanabara Bay, RJ, Brazil. <i>Marine Pollution Bulletin</i> , 2019, 141, 561-568.	2.3	111
67	Microbial Ecotoxicology of Marine Plastic Debris: A Review on Colonization and Biodegradation by the â€œPlastisphereâ€• <i>Frontiers in Microbiology</i> , 2019, 10, 865.	1.5	288
68	Microplastics and attached microorganisms in sediments of the Vitória bay estuarine system in SE Brazil. <i>Ocean and Coastal Management</i> , 2019, 169, 247-253.	2.0	86
69	Distinct community structure and microbial functions of biofilms colonizing microplastics. <i>Science of the Total Environment</i> , 2019, 650, 2395-2402.	3.9	387
70	Plastic-associated harmful microalgal assemblages in marine environment. <i>Environmental Pollution</i> , 2019, 244, 617-626.	3.7	69
71	Marine Microbial Assemblages on Microplastics: Diversity, Adaptation, and Role in Degradation. <i>Annual Review of Marine Science</i> , 2020, 12, 209-232.	5.1	264
72	Understanding How Microplastics Affect Marine Biota on the Cellular Level Is Important for Assessing Ecosystem Function: A Review. , 2020, , 101-120.		42
73	Early Colonization of Weathered Polyethylene by Distinct Bacteria in Marine Coastal Seawater. <i>Microbial Ecology</i> , 2020, 79, 517-526.	1.4	96
74	Colonization characteristics of bacterial communities on microplastics compared with ambient environments (water and sediment) in Haihe Estuary. <i>Science of the Total Environment</i> , 2020, 708, 134876.	3.9	88

#	ARTICLE	IF	CITATIONS
75	Selectively enrichment of antibiotics and ARGs by microplastics in river, estuary and marine waters. <i>Science of the Total Environment</i> , 2020, 708, 134594.	3.9	133
76	Greenhouse gas cycling by the plastisphere: The sleeper issue of plastic pollution. <i>Chemosphere</i> , 2020, 246, 125709.	4.2	30
77	Microbial colonization of different microplastic types and biotransformation of sorbed PCBs by a marine anaerobic bacterial community. <i>Science of the Total Environment</i> , 2020, 705, 135790.	3.9	79
78	The "Plastisphere" of Biodegradable Plastics Is Characterized by Specific Microbial Taxa of Alpine and Arctic Soils. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	54
79	Microplastic-associated biofilms in lentic Italian ecosystems. <i>Water Research</i> , 2020, 187, 116429.	5.3	95
80	Temporal changes in water temperature and salinity drive the formation of a reversible plastic-specific microbial community. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	27
81	Microbial carbon metabolic functions of biofilms on plastic debris influenced by the substrate types and environmental factors. <i>Environment International</i> , 2020, 143, 106007.	4.8	57
82	Microplastic degradation by bacteria in aquatic ecosystem. , 2020, , 431-467.		23
83	Identification of plastic-associated species in the Mediterranean Sea using DNA metabarcoding with Nanopore MinION. <i>Scientific Reports</i> , 2020, 10, 17533.	1.6	54
84	Marine Plastic Debris: A New Surface for Microbial Colonization. <i>Environmental Science &amp; Technology</i> , 2020, 54, 11657-11672.	4.6	259
85	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
86	Microplastics in a dam lake in Turkey: type, mesh size effect, and bacterial biofilm communities. <i>Environmental Science and Pollution Research</i> , 2020, 27, 45688-45698.	2.7	35
87	Ocean acidification alters bacterial communities on marine plastic debris. <i>Marine Pollution Bulletin</i> , 2020, 161, 111749.	2.3	21
88	Persistence of plastic debris and its colonization by bacterial communities after two decades on the abyssal seafloor. <i>Scientific Reports</i> , 2020, 10, 9484.	1.6	58
89	Microplastics provide new microbial niches in aquatic environments. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 6501-6511.	1.7	217
90	Major Role of Surrounding Environment in Shaping Biofilm Community Composition on Marine Plastic Debris. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	69
91	The environmental impacts of plastic pollution. , 2020, , 195-222.		26
92	Biofilms of Microplastics. <i>Handbook of Environmental Chemistry</i> , 2020, , 299-317.	0.2	22

#	ARTICLE	IF	CITATIONS
93	Microplastics in waters and soils: Occurrence, analytical methods and ecotoxicological effects. <i>Ecotoxicology and Environmental Safety</i> , 2020, 202, 110910.	2.9	89
94	Microplastics in the environment: Interactions with microbes and chemical contaminants. <i>Science of the Total Environment</i> , 2020, 743, 140518.	3.9	229
95	Evidence of selective enrichment of bacterial assemblages and antibiotic resistant genes by microplastics in urban rivers. <i>Water Research</i> , 2020, 183, 116113.	5.3	178
96	Fragmentation of plastic objects in a laboratory seawater microcosm. <i>Scientific Reports</i> , 2020, 10, 10945.	1.6	101
97	Microplastics and Nanoplastics in Aquatic Environments: Challenges and Threats to Aquatic Organisms. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 4419-4440.	1.7	59
98	Ecology of the plastisphere. <i>Nature Reviews Microbiology</i> , 2020, 18, 139-151.	13.6	665
99	Microplastic-micro interactions: How microorganisms influence the fate of marine microplastics. <i>Limnology and Oceanography Letters</i> , 2020, 5, 18-36.	1.6	188
100	Bacterial communities on soil microplastic at Guiyu, an E-Waste dismantling zone of China. <i>Ecotoxicology and Environmental Safety</i> , 2020, 195, 110521.	2.9	62
101	Microplastics in Soil Ecosystem: Insight on Its Fate and Impacts on Soil Quality. <i>Handbook of Environmental Chemistry</i> , 2020, , 245-258.	0.2	9
102	Polycyclic aromatic hydrocarbon sorption and bacterial community composition of biodegradable and conventional plastics incubated in coastal sediments. <i>Science of the Total Environment</i> , 2021, 755, 143088.	3.9	17
103	Food or just a free ride? A meta-analysis reveals the global diversity of the Plastisphere. <i>ISME Journal</i> , 2021, 15, 789-806.	4.4	110
104	Linking effects of microplastics to ecological impacts in marine environments. <i>Chemosphere</i> , 2021, 264, 128541.	4.2	116
105	Chemotaxis-selective colonization of mangrove rhizosphere microbes on nine different microplastics. <i>Science of the Total Environment</i> , 2021, 752, 142223.	3.9	69
106	Physiological effects of plastic particles on mussels are mediated by food presence. <i>Journal of Hazardous Materials</i> , 2021, 404, 124136.	6.5	46
107	Effect of polyethylene microplastics on activated sludge process - Accumulation in the sludge and influence on the process and on biomass characteristics. <i>Chemical Engineering Research and Design</i> , 2021, 148, 536-547.	2.7	34
108	Early and differential bacterial colonization on microplastics deployed into the effluents of wastewater treatment plants. <i>Science of the Total Environment</i> , 2021, 757, 143832.	3.9	60
109	Bacterial and fungal assemblages and functions associated with biofilms differ between diverse types of plastic debris in a freshwater system. <i>Environmental Research</i> , 2021, 196, 110371.	3.7	50
110	Microplastic pollution and its relationship with the bacterial community in coastal sediments near Guangdong Province, South China. <i>Science of the Total Environment</i> , 2021, 760, 144091.	3.9	27

#	ARTICLE	IF	CITATIONS
111	Plastics and sedimentation foster the spread of a non-native macroalga in seagrass meadows. <i>Science of the Total Environment</i> , 2021, 757, 143812.	3.9	22
112	Polyester microfiber and natural organic matter impact microbial communities, carbon-degraded enzymes, and carbon accumulation in a clayey soil. <i>Journal of Hazardous Materials</i> , 2021, 405, 124701.	6.5	67
113	Selective enrichment of antibiotic resistance genes and pathogens on polystyrene microplastics in landfill leachate. <i>Science of the Total Environment</i> , 2021, 765, 142775.	3.9	74
114	Microbial communities of polyhydroxyalkanoate (PHA)-based biodegradable composites plastisphere and of surrounding environmental matrix: a comparison between marine (seabed) and coastal sediments (dune sand) over a long-time scale. <i>Science of the Total Environment</i> , 2021, 764, 142814.	3.9	10
115	Microbial carrying capacity and carbon biomass of plastic marine debris. <i>ISME Journal</i> , 2021, 15, 67-77.	4.4	54
116	Plastic in the Aquatic Environment: Interactions with Microorganisms. <i>Handbook of Environmental Chemistry</i> , 2021, , 197-254.	0.2	4
117	Microbial Degradation of Marine Plastics: Current State and Future Prospects. , 2021, , 111-154.		9
119	Comparative Genomics of Marine Bacteria from a Historically Defined Plastic Biodegradation Consortium with the Capacity to Biodegrade Polyhydroxyalkanoates. <i>Microorganisms</i> , 2021, 9, 186.	1.6	9
120	Effect of polymer type on the colonization of plastic pellets by marine bacteria. <i>FEMS Microbiology Letters</i> , 2021, 368, .	0.7	25
121	Microplastics in the Marine Environment: Sources, Fates, Impacts and Microbial Degradation. <i>Toxics</i> , 2021, 9, 41.	1.6	66
122	Trace Metal Contamination Impacts Predicted Functions More Than Structure of Marine Prokaryotic Biofilm Communities in an Anthropized Coastal Area. <i>Frontiers in Microbiology</i> , 2021, 12, 589948.	1.5	21
123	Exploring the Composition and Functions of Plastic Microbiome Using Whole-Genome Sequencing. <i>Environmental Science &amp; Technology</i> , 2021, 55, 4899-4913.	4.6	71
124	Colonization characteristics of bacterial communities on plastic debris: The localization of immigrant bacterial communities. <i>Water Research</i> , 2021, 193, 116883.	5.3	23
125	Potential Environmental and Human Health Risks Caused by Antibiotic-Resistant Bacteria (ARB), Antibiotic Resistance Genes (ARGs) and Emerging Contaminants (ECs) from Municipal Solid Waste (MSW) Landfill. <i>Antibiotics</i> , 2021, 10, 374.	1.5	80
126	Plastic as a Vector of Dispersion for Marine Species With Invasive Potential. A Review. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	48
127	Spatial and seasonal variations in biofilm formation on microplastics in coastal waters. <i>Science of the Total Environment</i> , 2021, 770, 145303.	3.9	71
129	A multi-OMIC characterisation of biodegradation and microbial community succession within the PET plastisphere. <i>Microbiome</i> , 2021, 9, 141.	4.9	49
130	Microbial Communities on Plastic Polymers in the Mediterranean Sea. <i>Frontiers in Microbiology</i> , 2021, 12, 673553.	1.5	64



#	ARTICLE	IF	CITATIONS
131	Product Formulation Controls the Impact of Biofouling on Consumer Plastic Photochemical Fate in the Ocean. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8898-8907.	4.6	30
132	Diversity and structure of microbial biofilms on microplastics in riverine waters of the Pearl River Delta, China. <i>Chemosphere</i> , 2021, 272, 129870.	4.2	36
133	LDPE microplastics affect soil microbial communities and nitrogen cycling. <i>Science of the Total Environment</i> , 2021, 773, 145640.	3.9	174
134	Are microplastic particles a hotspot for the spread and the persistence of antibiotic resistance in aquatic systems?. <i>Environmental Pollution</i> , 2021, 279, 116896.	3.7	60
135	Cross-Hemisphere Study Reveals Geographically Ubiquitous, Plastic-Specific Bacteria Emerging from the Rare and Unexplored Biosphere. <i>MSphere</i> , 2021, 6, e0085120.	1.3	20
137	A review of biodegradable plastics to biodegradable microplastics: Another ecological threat to soil environments?. <i>Journal of Cleaner Production</i> , 2021, 312, 127816.	4.6	185
138	Contribution of microplastic particles to the spread of resistances and pathogenic bacteria in treated wastewaters. <i>Water Research</i> , 2021, 201, 117368.	5.3	67
139	Contribution of stochastic processes to the microbial community assembly on field-collected microplastics. <i>Environmental Microbiology</i> , 2021, 23, 6707-6720.	1.8	60
140	Degradation of polyethylene plastic in soil and effects on microbial community composition. <i>Journal of Hazardous Materials</i> , 2021, 416, 126173.	6.5	77
141	Conditioning Film and Early Biofilm Succession on Plastic Surfaces. <i>Environmental Science &amp; Technology</i> , 2021, 55, 11006-11018.	4.6	45
142	Biofilm-Developed Microplastics As Vectors of Pollutants in Aquatic Environments. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12780-12790.	4.6	35
143	The Terrestrial Plastisphere: Diversity and Polymer-Colonizing Potential of Plastic-Associated Microbial Communities in Soil. <i>Microorganisms</i> , 2021, 9, 1876.	1.6	28
144	Attached and planktonic bacterial communities on bio-based plastic granules and micro-debris in seawater and freshwater. <i>Science of the Total Environment</i> , 2021, 785, 147413.	3.9	22
145	Microbe-assisted phytoremediation of environmental pollutants and energy recycling in sustainable agriculture. <i>Archives of Microbiology</i> , 2021, 203, 5859-5885.	1.0	23
146	Exposure to heavy metal and antibiotic enriches antibiotic resistant genes on the tire particles in soil. <i>Science of the Total Environment</i> , 2021, 792, 148417.	3.9	21
147	Microbial biofilm composition and polymer degradation of compostable and non-compostable plastics immersed in the marine environment. <i>Journal of Hazardous Materials</i> , 2021, 419, 126526.	6.5	48
148	Microplastics prevalence, interactions, and remediation in the aquatic environment: A critical review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106224.	3.3	60
149	Seasonal biofilm formation on floating microplastics in coastal waters of intensified mariculture area. <i>Marine Pollution Bulletin</i> , 2021, 171, 112914.	2.3	20

#	ARTICLE	IF	CITATIONS
150	Typhoon-induced turbulence redistributed microplastics in coastal areas and reformed plastisphere community. <i>Water Research</i> , 2021, 204, 117580.	5.3	45
151	Deep-sea plastisphere: Long-term colonization by plastic-associated bacterial and archaeal communities in the Southwest Atlantic Ocean. <i>Science of the Total Environment</i> , 2021, 793, 148335.	3.9	33
152	Recent advances on ecological effects of microplastics on soil environment. <i>Science of the Total Environment</i> , 2021, 798, 149338.	3.9	141
153	Horizontal variation of microplastics with tidal fluctuation in the Chao Phraya River Estuary, Thailand. <i>Marine Pollution Bulletin</i> , 2021, 173, 112933.	2.3	18
154	The structure and assembly mechanisms of plastisphere microbial community in natural marine environment. <i>Journal of Hazardous Materials</i> , 2022, 421, 126780.	6.5	93
155	Microplastics as an aquatic pollutant affect gut microbiota within aquatic animals. <i>Journal of Hazardous Materials</i> , 2022, 423, 127094.	6.5	46
156	Microplastics: A review of analytical methods, occurrence and characteristics in food, and potential toxicities to biota. <i>Science of the Total Environment</i> , 2022, 806, 150263.	3.9	56
157	Metagenomics: A powerful lens viewing the microbial world. , 2021, , 309-339.		4
158	Microbial colonization of microplastics in the Caribbean Sea. <i>Limnology and Oceanography Letters</i> , 2020, 5, 5-17.	1.6	86
159	Occurrence, removal and potential threats associated with microplastics in drinking water sources. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104527.	3.3	47
160	Biofilm formation and its influences on the properties of microplastics as affected by exposure time and depth in the seawater. <i>Science of the Total Environment</i> , 2020, 734, 139237.	3.9	208
161	Are bacterial communities associated with microplastics influenced by marine habitats?. <i>Science of the Total Environment</i> , 2020, 733, 139400.	3.9	50
163	Urbanization and Waterborne Pathogen Emergence in Low-Income Countries: Where and How to Conduct Surveys?. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 480.	1.2	14
164	Ecotoxicological Assessment of Microplastics in Freshwater Sources—A Review. <i>Water (Switzerland)</i> , 2021, 13, 56.	1.2	44
165	Plastic-Degrading Potential across the Global Microbiome Correlates with Recent Pollution Trends. <i>MBio</i> , 2021, 12, e0215521.	1.8	51
166	Microbial adaptation to co-occurring vanadium and microplastics in marine and riverine environments. <i>Journal of Hazardous Materials</i> , 2022, 424, 127646.	6.5	32
167	Bacterial Community under the Influence of Microplastics in Indoor Environment and the Health Hazards Associated with Antibiotic Resistance Genes. <i>Environmental Science &amp; Technology</i> , 2022, 56, 422-432.	4.6	44
168	Impact of aquatic microplastics and nanoplastics pollution on ecological systems and sustainable remediation strategies of biodegradation and photodegradation. <i>Science of the Total Environment</i> , 2022, 806, 151358.	3.9	41

#	ARTICLE	IF	CITATIONS
169	Effects of plastics and microplastics on aquatic organisms and human health. <i>Su Özeri Dergisi</i> , 2020, 37, 437-443.	0.1	1
170	Identification of Microorganisms Related to Microplastics. , 2021, , 1-34.		6
171	Interaction of Microplastics with Antibiotics in Aquatic Environment: Distribution, Adsorption, and Toxicity. <i>Environmental Science &amp; Technology</i> , 2021, 55, 15579-15595.	4.6	169
172	The proliferation and colonization of functional bacteria on amorphous polyethylene terephthalate: Key role of ultraviolet irradiation and nonionic surfactant polysorbate 80 addition. <i>Chemosphere</i> , 2022, 291, 132940.	4.2	8
173	Microplastics habituated with biofilm change decabrominated diphenyl ether degradation products and thyroid endocrine toxicity. <i>Ecotoxicology and Environmental Safety</i> , 2021, 228, 112991.	2.9	13
174	Incubation Habitats and Aging States Affect the Formation of Biofilms on Microplastics. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
175	Role of microbiome and biofilm in environmental plastic degradation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2022, 39, 102263.	1.5	29
176	New insights into the functioning and structure of the PE and PP plastispheres from the Mediterranean Sea. <i>Environmental Pollution</i> , 2022, 295, 118678.	3.7	20
177	Quantifying the importance of plastic pollution for the dissemination of human pathogens: The challenges of choosing an appropriate "control" material. <i>Science of the Total Environment</i> , 2022, 810, 152292.	3.9	35
178	Microbiome differential abundance methods produce different results across 38 datasets. <i>Nature Communications</i> , 2022, 13, 342.	5.8	286
179	Microbiome Development of Seawater-Incubated Pre-production Plastic Pellets Reveals Distinct and Predictive Community Compositions. <i>Frontiers in Marine Science</i> , 2022, 8, , .	1.2	10
180	Microplastics and Macroplastic Debris as Potential Physical Vectors of SARS-CoV-2: A Hypothetical Overview with Implications for Public Health. <i>Microplastics</i> , 2022, 1, 156-166.	1.6	10
181	Comparative Analysis of Selective Bacterial Colonization by Polyethylene and Polyethylene Terephthalate Microplastics. <i>Frontiers in Microbiology</i> , 2022, 13, 836052.	1.5	2
182	Effect of LDPE and biodegradable PBAT primary microplastics on bacterial community after four months of soil incubation. <i>Journal of Hazardous Materials</i> , 2022, 429, 128353.	6.5	83
183	Impact of Plastic Waste on the Coral Reefs: An Overview. , 2022, , 239-256.		7
184	Plastic Debris As a Vector for Bacterial Disease: An Interdisciplinary Systematic Review. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2950-2958.	4.6	34
185	Review of microplastic sources, transport pathways and correlations with other soil stressors: a journey from agricultural sites into the environment. <i>Chemical and Biological Technologies in Agriculture</i> , 2022, 9, , .	1.9	69
186	Microplastics in the soil environment: A critical review. <i>Environmental Technology and Innovation</i> , 2022, 27, 102408.	3.0	105

#	ARTICLE	IF	CITATIONS
187	Integrated metagenomic and metatranscriptomic analysis reveals actively expressed antibiotic resistomes in the plastisphere. <i>Journal of Hazardous Materials</i> , 2022, 430, 128418.	6.5	21
188	Governance Strategies for Mitigating Microplastic Pollution in the Marine Environment: A Review. <i>Microplastics</i> , 2022, 1, 15-46.	1.6	40
189	Soil under stress: The importance of soil life and how it is influenced by (micro)plastic pollution. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 1554-1566.	1.9	30
190	Identification of Microorganisms Related to Microplastics. , 2022, , 443-476.		0
191	Impact of the non-biodegradable plastics and role of microbes in biotic degradation. <i>Journal of Experimental Biology and Agricultural Sciences</i> , 2022, 10, 171-189.	0.1	0
192	Insights into microbial diversity on plastisphere by multi-omics. <i>Archives of Microbiology</i> , 2022, 204, 216.	1.0	5
193	Soil plastisphere: Exploration methods, influencing factors, and ecological insights. <i>Journal of Hazardous Materials</i> , 2022, 430, 128503.	6.5	45
194	Incubation habitats and aging treatments affect the formation of biofilms on polypropylene microplastics. <i>Science of the Total Environment</i> , 2022, 831, 154769.	3.9	22
195	Microbial Life on the Surface of Microplastics in Natural Waters. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11692.	1.3	23
197	High-Resolution Screening for Marine Prokaryotes and Eukaryotes With Selective Preference for Polyethylene and Polyethylene Terephthalate Surfaces. <i>Frontiers in Microbiology</i> , 2022, 13, 845144.	1.5	6
198	From rivers to marine environments: A constantly evolving microbial community within the plastisphere. <i>Marine Pollution Bulletin</i> , 2022, 179, 113660.	2.3	12
220	Degradation of ecosystems and loss of ecosystem services. , 2022, , 281-327.		6
221	Differences in the Plastispheres of Biodegradable and Non-biodegradable Plastics: A Mini Review. <i>Frontiers in Microbiology</i> , 2022, 13, 849147.	1.5	18
223	Biofilm formation and its implications on the properties and fate of microplastics in aquatic environments: A review. <i>Journal of Hazardous Materials Advances</i> , 2022, 6, 100077.	1.2	43
224	Mesocosm trials reveal the potential toxic risk of degrading bioplastics to marine life. <i>Marine Pollution Bulletin</i> , 2022, 179, 113673.	2.3	12
225	Microbial pioneers of plastic colonisation in coastal seawaters. <i>Marine Pollution Bulletin</i> , 2022, 179, 113701.	2.3	31
226	Characteristics of microplastic pollution and analysis of colonized-microbiota in a freshwater aquaculture system.. <i>Environmental Pollution</i> , 2022, 306, 119385.	3.7	16
227	Compare the performance of multiple binary classification models in microbial high-throughput sequencing datasets. <i>Science of the Total Environment</i> , 2022, 837, 155807.	3.9	5

#	ARTICLE	IF	CITATIONS
228	Bacterial communities on polyethylene microplastics in mangrove ecosystems as a function of exposure sites: Compositions and ecological functions. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107924.	3.3	11
229	Interactions of microplastics with organic, inorganic and bio-pollutants and the ecotoxicological effects on terrestrial and aquatic organisms. <i>Science of the Total Environment</i> , 2022, 838, 156068.	3.9	38
231	Bacterial colonisation dynamics of household plastics in a coastal environment. <i>Science of the Total Environment</i> , 2022, 838, 156199.	3.9	12
232	Selective enrichment of antibiotic resistome and bacterial pathogens by aquatic microplastics. <i>Journal of Hazardous Materials Advances</i> , 2022, 7, 100106.	1.2	7
233	Plastic properties affect the composition of prokaryotic and eukaryotic communities and further regulate the ARGs in their surface biofilms. <i>Science of the Total Environment</i> , 2022, 839, 156362.	3.9	11
234	Plastisphere community assemblage of aquatic environment: plastic-microbe interaction, role in degradation and characterization technologies. <i>Environmental Microbiomes</i> , 2022, 17, .	2.2	31
235	Plastic materials and water sources actively select and shape wastewater plastispheres over time. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, .	3.3	4
236	Eco-Plastics in the Sea: Succession of Micro- and Macro-Fouling on a Biodegradable Polymer Augmented With Oyster Shell. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	5
237	Wastewater plastisphere enhances antibiotic resistant elements, bacterial pathogens, and toxicological impacts in the environment. <i>Science of the Total Environment</i> , 2022, 841, 156805.	3.9	20
238	Advances and Applications of Bioremediation: Network of Omics, System Biology, Gene Editing and Nanotechnology. , 2022, , 167-199.		1
239	Tide-driven microplastics transport in an elongated semi-closed bay: A case study in Xiangshan Bay, China. <i>Science of the Total Environment</i> , 2022, 846, 157374.	3.9	8
240	Plastic-Associated Microbial Communities in Aquaculture Areas. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	6
241	Slower antibiotics degradation and higher resistance genes enrichment in plastisphere. <i>Water Research</i> , 2022, 222, 118920.	5.3	22
242	Indoor microplastics and bacteria in the atmospheric fallout in urban homes. <i>Science of the Total Environment</i> , 2022, 852, 158233.	3.9	16
243	Microbial communities on plastic particles in surface waters differ from subsurface waters of the North Pacific Subtropical Gyre. <i>Marine Pollution Bulletin</i> , 2022, 182, 113949.	2.3	9
244	Plastisphere in lake waters: Microbial diversity, biofilm structure, and potential implications for freshwater ecosystems. <i>Environmental Pollution</i> , 2022, 310, 119876.	3.7	21
245	Microplastisphere may induce the enrichment of antibiotic resistance genes on microplastics in aquatic environments: A review. <i>Environmental Pollution</i> , 2022, 310, 119891.	3.7	19
246	LDPE microplastics affect soil microbial community and form a unique plastisphere on microplastics. <i>Applied Soil Ecology</i> , 2022, 180, 104623.	2.1	33

#	ARTICLE	IF	CITATIONS
247	The plastisphere of biodegradable and conventional microplastics from residues exhibit distinct microbial structure, network and function in plastic-mulching farmland. <i>Journal of Hazardous Materials</i> , 2023, 442, 130011.	6.5	59
248	Microplastic pollution and enrichment of distinct microbiota in sediment of mangrove in Zhujiang River estuary, China. <i>Journal of Oceanology and Limnology</i> , 2023, 41, 215-228.	0.6	3
250	Booming microplastics generation in landfill: An exponential evolution process under temporal pattern. <i>Water Research</i> , 2022, 223, 119035.	5.3	20
253	Microfiber-loaded bacterial community in indoor fallout and air-conditioner filter dust. <i>Science of the Total Environment</i> , 2023, 856, 159211.	3.9	10
254	Microplastics as Contaminants in Water Bodies and Their Threat to the Aquatic Animals: A Mini-Review. <i>Animals</i> , 2022, 12, 2864.	1.0	7
255	Drifting marine plastics as new ecological habitats for harmful eukaryotic microbial communities in Jeju Strait, Korea. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	3
256	Degradation Rates and Bacterial Community Compositions Vary among Commonly Used Bioplastic Materials in a Brackish Marine Environment. <i>Environmental Science &amp; Technology</i> , 2022, 56, 15760-15769.	4.6	14
257	Microplastic materials in the environment: Problem and strategical solutions. <i>Progress in Materials Science</i> , 2023, 132, 101035.	16.0	44
258	Microplastic contamination and microbial colonization in coastal area of Busan City, Korea. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	5
259	Dissolved organic matter derived from biodegradable microplastic promotes photo-aging of coexisting microplastics and alters microbial metabolism. <i>Journal of Hazardous Materials</i> , 2023, 445, 130564.	6.5	8
260	Mangrove degradation retarded microplastics weathering and affected metabolic activities of microplastics-associated microbes. <i>Journal of Hazardous Materials</i> , 2023, 445, 130535.	6.5	12
261	Potential of sediment bacterial communities from Manila Bay (Philippines) to degrade low-density polyethylene (LDPE). <i>Archives of Microbiology</i> , 2023, 205, .	1.0	3
262	Plastic-microbe interaction in the marine environment: Research methods and opportunities. <i>Environment International</i> , 2023, 171, 107716.	4.8	4
263	Microalgae colonization and trace element accumulation on the plastisphere of marine plastic debris in Monastir Bay (Eastern Tunisia). <i>Environmental Science and Pollution Research</i> , 2023, 30, 32427-32451.	2.7	1
265	<i>Vibrio parahaemolyticus</i> and <i>Vibrio vulnificus</i> in vitro colonization on plastics influenced by temperature and strain variability. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	4
266	Vertical and seasonal variations in biofilm formation on plastic substrates in coastal waters of the Black Sea. <i>Chemosphere</i> , 2023, 317, 137843.	4.2	1
267	Preliminary observation of bacterial biofilm communities on plastic litters and their surface degradation in two coastal areas of Tuticorin, India. <i>International Journal of Civil Environmental and Agricultural Engineering</i> , 0, , 61-84.	0.2	0
268	Small-Scale Mechanical Recycling of Solid Thermoplastic Wastes: A Review of PET, PE, and PP. <i>Energies</i> , 2023, 16, 1406.	1.6	4

#	ARTICLE	IF	CITATIONS
269	Biodegradable mulch films significantly affected rhizosphere microbial communities and increased peanut yield. <i>Science of the Total Environment</i> , 2023, 871, 162034.	3.9	6
270	Assessing the potential for the introduction and spread of alien species with marine litter. <i>Marine Pollution Bulletin</i> , 2023, 191, 114913.	2.3	9
271	Attachment of potential cultivable primo-colonizing bacteria and its implications on the fate of low-density polyethylene (LDPE) plastics in the marine environment. <i>Journal of Hazardous Materials</i> , 2023, 451, 131124.	6.5	5
274	Aquatic plastisphere: Interactions between plastics and biofilms. <i>Environmental Pollution</i> , 2023, 322, 121196.	3.7	14
275	Microbial colonization and degradation of marine microplastics in the plastisphere: A review. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	23
276	Long-term immersion of compostable plastics in marine aquarium: Microbial biofilm evolution and polymer degradation. <i>Marine Pollution Bulletin</i> , 2023, 189, 114711.	2.3	8
277	Effect of different additions of low-density polyethylene and microplastics polyadipate/butylene terephthalate on soil bacterial community structure. <i>Environmental Science and Pollution Research</i> , 2023, 30, 55649-55661.	2.7	1
278	Fungal Diversity and Dynamics during Long-Term Immersion of Conventional and Biodegradable Plastics in the Marine Environment. <i>Diversity</i> , 2023, 15, 579.	0.7	7
280	Impacts of Biofilm Formation on the Physicochemical Properties and Toxicity of Microplastics: A Concise Review. <i>Reviews of Environmental Contamination and Toxicology</i> , 2023, 261, .	0.7	2
297	Microplastics as carriers of antibiotic resistance genes and pathogens in municipal solid waste (MSW) landfill leachate and soil: a review. <i>Journal of Environmental Health Science &amp; Engineering</i> , 0, , .	1.4	0
306	Co-exposure of microplastics and heavy metals in the marine environment and remediation techniques: a comprehensive review. <i>Environmental Science and Pollution Research</i> , 2023, 30, 114822-114843.	2.7	1
310	Potential Application of Bacteria in Degrading Xenobiotics for Sustainable Environmental Management. , 2023, , 321-339.		0
313	Occurrence Characteristics and Ecotoxic Effects of Microplastics in Environmental Media: a Mini Review. <i>Applied Biochemistry and Biotechnology</i> , 0, , .	1.4	1