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The plastic in microplastics: A review

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1023	Plastic and Human Health: A Micro Issue?. <b>2017</b> , 51, 6634-6647		972
1022	Characteristics of meso-sized plastic marine debris on 20 beaches in Korea. <i>Marine Pollution Bulletin</i> , <b>2017</b> , 123, 92-96	6.7	27
1021	Microplastic pollution in the surface waters of the Bohai Sea, China. <b>2017</b> , 231, 541-548		237
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1019	Characterization of microplastic litter from oceans by an innovative approach based on hyperspectral imaging. <b>2018</b> , 76, 117-125		86
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1017	Single and combined effects of microplastics and mercury on juveniles of the European seabass (Dicentrarchus labrax): Changes in behavioural responses and reduction of swimming velocity and resistance time. <b>2018</b> , 236, 1014-1019		125
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1015	Influence of microplastics on the toxicity of the pharmaceuticals procainamide and doxycycline on the marine microalgae Tetraselmis chuii. <b>2018</b> , 197, 143-152		151
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1013	Lost but can't be neglected: Huge quantities of small microplastics hide in the South China Sea. <b>2018</b> , 633, 1206-1216		139
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1006	Uptake and effects of the antimicrobial florfenicol, microplastics and their mixtures on freshwater exotic invasive bivalve Corbicula fluminea. <b>2018</b> , 622-623, 1131-1142		116
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	Spatio-temporal distribution of plastic and microplastic debris in the surface water of the Bohai	5.7	
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8 <sub>35</sub> 8 <sub>34</sub> 8 <sub>33</sub>	Spatio-temporal distribution of plastic and microplastic debris in the surface water of the Bohai Sea, China. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 158, 111343  Low-pressure driven electrospun membrane with tuned surface charge for efficient removal of polystyrene nanoplastics from water. <b>2020</b> , 614, 118470  The Bay of Biscay as a trapping zone for exogenous plastics of different sizes. <b>2020</b> , 163, 101929  Structural Diversity in Early-Stage Biofilm Formation on Microplastics Depends on Environmental	5.7	19 27 7
835 834 833 832	Spatio-temporal distribution of plastic and microplastic debris in the surface water of the Bohai Sea, China. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 158, 111343  Low-pressure driven electrospun membrane with tuned surface charge for efficient removal of polystyrene nanoplastics from water. <b>2020</b> , 614, 118470  The Bay of Biscay as a trapping zone for exogenous plastics of different sizes. <b>2020</b> , 163, 101929  Structural Diversity in Early-Stage Biofilm Formation on Microplastics Depends on Environmental Medium and Polymer Properties. <b>2020</b> , 12, 3216  Rapid Identification and Quantification of Microplastics in the Environment by Quantum Cascade	5.7	19 27 7
8 <sub>35</sub> 8 <sub>34</sub> 8 <sub>33</sub> 8 <sub>32</sub> 8 <sub>31</sub>	Spatio-temporal distribution of plastic and microplastic debris in the surface water of the Bohai Sea, China. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 158, 111343  Low-pressure driven electrospun membrane with tuned surface charge for efficient removal of polystyrene nanoplastics from water. <b>2020</b> , 614, 118470  The Bay of Biscay as a trapping zone for exogenous plastics of different sizes. <b>2020</b> , 163, 101929  Structural Diversity in Early-Stage Biofilm Formation on Microplastics Depends on Environmental Medium and Polymer Properties. <b>2020</b> , 12, 3216  Rapid Identification and Quantification of Microplastics in the Environment by Quantum Cascade Laser-Based Hyperspectral Infrared Chemical Imaging. <b>2020</b> , 54, 15893-15903  Toward Balancing the Budget: Surface Macro-Plastics Dominate the Mass of Particulate Pollution	5.7	19 27 7 6

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671	Sinking microplastics in the water column: simulations in the Mediterranean Sea. <b>2021</b> , 17, 431-453	1	3
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663	A preliminary study of the association between colonization of microorganism on microplastics and intestinal microbiota in shrimp under natural conditions. <b>2021</b> , 408, 124882	17
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660	Microplastics in the Aquatic Environment: Occurrence, Persistence, Analysis, and Human Exposure. <b>2021</b> , 13, 973	21
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656	Research Progress in Transfer, Accumulation and Effects of Microplastics in the Oceans. <b>2021</b> , 9, 433	3
655	The remediation of nano-/microplastics from water. <b>2021</b> , 48, 38-38	11
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635	A multi-OMIC characterisation of biodegradation and microbial community succession within the PET plastisphere. <b>2021</b> , 9, 141		9
634	Single and combined effects of phenanthrene and polystyrene microplastics on oxidative stress of the clam (Mactra veneriformis). <b>2021</b> , 771, 144728		7
633	Distribution and Seasonal Variation of Microplastics in Tallo River, Makassar, Eastern Indonesia. <b>2021</b> , 9,		4
632	Coastal ecosystem inventory with characterization and identification of plastic contamination and additives from aquaculture materials. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 167, 112286	-7	8
631	Environmental emission, fate and transformation of microplastics in biotic and abiotic compartments: Global status, recent advances and future perspectives. <b>2021</b> , 791, 148422		8
630	A review of human and animals exposure to polycyclic aromatic hydrocarbons: Health risk and adverse effects, photo-induced toxicity and regulating effect of microplastics. <b>2021</b> , 773, 145403		46

629	Low-pressure hydrothermal processing of mixed polyolefin wastes into clean fuels. <b>2021</b> , 294, 120505		3
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626	Surface-functionalised materials for microplastic removal. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 167, 112335	6.7	6
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	Adsorption and desorption behaviors of antibiotics by tire wear particles and polyethylene		16
619	Adsorption and desorption behaviors of antibiotics by tire wear particles and polyethylene microplastics with or without aging processes. <b>2021</b> , 771, 145451  Eating Near the Dump: Identification of Nearby Plastic Hotspot as a Proxy for Potential		
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609	Fish Ingest Microplastics Unintentionally. <b>2021</b> , 55, 10471-10479	20
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607	Marine debris from the past - Contamination of the Brazilian shore by a WWII wreck. <b>2021</b> , 169, 105345	2
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600	Microplastics particle size affects cloth filter performance. <b>2021</b> , 42, 102166	3
599	Abundance, interaction, ingestion, ecological concerns, and mitigation policies of microplastic pollution in riverine ecosystem: A review. <b>2021</b> , 782, 146695	45
598	Estuaries as Filters for Riverine Microplastics: Simulations in a Large, Coastal-Plain Estuary. <b>2021</b> , 8,	1
597	Quantification of selected microplastics in Australian urban road dust. <b>2021</b> , 416, 125811	16
596	A critical review of control and removal strategies for microplastics from aquatic environments. <b>2021</b> , 9, 105463	9
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594	Molecular impacts of dietary exposure to nanoplastics combined with arsenic in Canadian oysters (Crassostrea virginica) and bioaccumulation comparison with Caribbean oysters (Isognomon alatus). <b>2021</b> , 277, 130331	4

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586	Stop Piling on: Assessing Efforts to Reduce Single-Use Water Bottles at Allegheny College. <b>2021</b> , 13, 8864		3
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584	Accelerated Weathering Increases the Release of Toxic Leachates from Microplastic Particles as Demonstrated through Altered Toxicity to the Green Algae. <b>2021</b> , 9,		6
583	Examining the dependence of macroplastic fragmentation on coastal processes (Chesapeake Bay, Maryland). <i>Marine Pollution Bulletin</i> , <b>2021</b> , 169, 112510	7	4
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581	The sub-lethal impact of plastic and tire rubber leachates on the Mediterranean mussel Mytilus galloprovincialis. <b>2021</b> , 283, 117081		10
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579	Microplastics in soil: A review on methods, occurrence, sources, and potential risk. 2021, 780, 146546		91
578	Degradation of conventional and biobased plastics in soil under contrasting environmental conditions. <b>2021</b> , 787, 147678		3
577	Emerging use of thermal analysis in the assessment of micro(nano)plastics exposure. <b>2021</b> , 28, 38-38		1
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573	Source- and polymer-specific size distributions of fine microplastics in surface water in an urban river. <b>2021</b> , 284, 117516		5
572	Microplastics in fecal samples of whale sharks () and from surface water in the Philippines <b>2021</b> , 1, 17		3
571	Face mask waste generation and management during the COVID-19 pandemic: An overview and the Peruvian case. <b>2021</b> , 786, 147628		33
570	Aging effects on low- and high-density polyethylene, polypropylene and polystyrene under UV irradiation: An insight into decomposition mechanism by Py-GC/MS for microplastic analysis. <b>2021</b> , 158, 105207		17
569	Interaction of plastic particles with heavy metals and the resulting toxicological impacts: a review. <b>2021</b> , 28, 60291-60307		3
568	Considerations when using microplates and Neubauer counting chamber in ecotoxicity tests on microplastics. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 170, 112615	6.7	3
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566	Microplastics in the Environment: Intake through the Food Web, Human Exposure and Toxicological Effects. <b>2021</b> , 9,		17
565	Airborne microplastics in indoor and outdoor environments of a coastal city in Eastern China. <b>2021</b> , 417, 126007		27
564	Impacts of Plastic Pollution on Ecosystem Services, Sustainable Development Goals, and Need to Focus on Circular Economy and Policy Interventions. <b>2021</b> , 13, 9963		26
563	: A Review on Food Safety, Fish-Borne Diseases, and Tilapia. <b>2021</b> , 2021, 3119958		1
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561	Airborne Microplastic Concentrations in Five Megacities of Northern and Southeast China. <b>2021</b> , 55, 12	871-12	28 <b>§</b> 1
560	Distribution and transport of microplastics in the upper 1150 m of the water column at the Eastern North Atlantic Subtropical Gyre, Canary Islands, Spain. <b>2021</b> , 788, 147802		6
559	Micro-nano-sized polytetrafluoroethylene (teflon) particles as a model of plastic pollution detection in living organisms. <b>2021</b> , 1		0
558	Origin of embrittlement in Polyamide 6 induced by chemical degradations: mechanisms and governing factors. <b>2021</b> , 191, 109657		5

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556	A novel method for organic matter removal from samples containing microplastics. <b>2021</b> , 286, 117357	4
555	Occurrence, fate, and sorption behavior of contaminants of emerging concern to microplastics: Influence of the weathering/aging process. <b>2021</b> , 9, 106290	8
554	Extraction of microplastics from sediment matrices: Experimental comparative analysis. <b>2021</b> , 420, 126571	5
553	Effect of seawater acidification and plasticizer (Bisphenol-A) on aggregation of nanoparticles. <b>2021</b> , 201, 111498	1
552	Macroplastics contamination on glaciers from Italian Central-Western Alps. <b>2021</b> , 5, 100084	2
551	Characteristics, fate, and impact of marine plastic debris exposed to sunlight: A review. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 171, 112701	10
550	Rapid and efficient method for assessing nanoplastics by an electromagnetic heating pyrolysis mass spectrometry. <b>2021</b> , 419, 126506	1
549	Collecting Microplastics in Gardens: Case Study (i) of Soil. <b>2021</b> , 9,	2
548	Sinking characteristics of microplastics in the marine environment. <b>2021</b> , 793, 148526	9
547	Microplastics in the environment: Sampling, pretreatment, analysis and occurrence based on current and newly-exploited chromatographic approaches. <b>2021</b> , 794, 148725	7
546	Toxicity of nanoplastics for zebrafish embryos, what we know and where to go next. <b>2021</b> , 797, 149125	5
545	Evidence of deleterious effects of microplastics from aquaculture materials on pediveliger larva settlement and oyster spat growth of Pacific oyster, Crassostrea gigas. <b>2021</b> , 794, 148708	3
544	Evaluation of microplastics removal efficiency at a wastewater treatment plant discharging to the Sea of Marmara. <b>2021</b> , 289, 117862	10
543	Aging microplastics in wastewater pipeline networks and treatment processes: Physicochemical characteristics and Cd adsorption. <b>2021</b> , 797, 148940	4
542	Small microplastics (. <b>2021</b> , 797, 148937	5
541	Aging assessment of microplastics (LDPE, PET and uPVC) under urban environment stressors. <b>2021</b> , 796, 148914	13
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539	Marine microplastics in the surface waters of "pristine" Kuroshio. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 172, 112808	2
538	Effect of light irradiation on heavy metal adsorption onto microplastics. <b>2021</b> , 285, 131457	4
537	A critical review of the environmental impacts of manufactured nano-objects on earthworm species. <b>2021</b> , 290, 118041	8
536	Applying confocal Raman spectroscopy and different linear multivariate analyses to sort polyethylene residues. <b>2021</b> , 426, 131344	5
535	Floating plastics in oceans: A matter of size. <b>2021</b> , 32, 100543	1
534	Effect of virgin low density polyethylene microplastic ingestion on intestinal histopathology and microbiota of gilthead sea bream. <b>2021</b> , 545, 737245	8
533	Microplastics from miscellaneous plastic wastes: Physico-chemical characterization and impact on fish and amphibian development. <b>2021</b> , 225, 112775	3
532	Ecological implications beyond the ecotoxicity of plastic debris on marine phytoplankton assemblage structure and functioning. <b>2021</b> , 290, 118101	1
531	Microplastics in agricultural soils, wastewater effluents and sewage sludge in Mauritius. <b>2021</b> , 798, 149326	15
530	Research on cooperation mechanism of marine plastic waste management based on complex network evolutionary game. <b>2021</b> , 134, 104774	1
529	Environmental microplastic and nanoplastic: Exposure routes and effects on coagulation and the cardiovascular system. <b>2021</b> , 291, 118190	2
528	Interactive effects of microplastic pollution and heat stress on reef-building corals. <b>2021</b> , 290, 118010	5
527	Effects of secondary polyethylene microplastic exposure on crucian (Carassius carassius) growth, liver damage, and gut microbiome composition. <b>2022</b> , 802, 149736	4
526	Vulnerability of municipal solid waste: An emerging threat to aquatic ecosystems. <b>2022</b> , 287, 132223	8
525	Microplastics as an aquatic pollutant affect gut microbiota within aquatic animals. 2022, 423, 127094	6
524	Genotoxic effect of microplastics and COVID-19: The hidden threat. <b>2022</b> , 286, 131898	6
523	Weathering of geotextiles under ultraviolet exposure: A neglected source of microfibers from coastal reclamation. <b>2022</b> , 804, 150168	2
522	Effects of microplastics on soil microbiome: The impacts of polymer type, shape, and concentration. <b>2022</b> , 806, 150516	13

521	Training and evaluating machine learning algorithms for ocean microplastics classification through vibrational spectroscopy. <b>2022</b> , 287, 131903	4
520	Effect of different polymers of microplastics on soil organic carbon and nitrogen - A mesocosm experiment. <b>2022</b> , 204, 111938	9
519	Interactions of microplastics, antibiotics and antibiotic resistant genes within WWTPs. <b>2022</b> , 804, 150141	13
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517	Microplastics as Pollutants in the Marine Environment. <b>2021</b> , 373-399	1
516	. <b>2021</b> , 9, 47615-47620	2
515	The Effect of Wastewater Treatment Plants on Retainment of Plastic Microparticles to Enhance Water Quality Review. <b>2021</b> , 12, 161-195	2
514	Effect of environmentally relevant concentrations of potentially toxic microplastic on coastal copepods. <b>2021</b> , 230, 105713	5
513	Nanofragmentation of Expanded Polystyrene Under Simulated Environmental Weathering (Thermooxidative Degradation and Hydrodynamic Turbulence). <b>2021</b> , 7,	13
512	Recycling of Marine Plastic Debris. <b>2021</b> , 121-141	
511	Microplastics into the Anthropocene. <b>2020</b> , 1-16	2
510	Dynamic distribution of microplastics in mangrove sediments in Beibu Gulf, South China: Implications of tidal current velocity and tidal range. <b>2020</b> , 399, 122849	23
509	Evidence of small microplastics (. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 160, 111606 6.7	9
508	Sorption of three common nonsteroidal anti-inflammatory drugs (NSAIDs) to microplastics. <b>2020</b> , 715, 136974	47
507	Interactions between microplastics and organic compounds in aquatic environments: A mini review. <b>2020</b> , 736, 139472	54
506	Factors influencing the spatial and temporal distribution of microplastics at the sea surface - A year-long monitoring case study from the urban Kiel Fjord, southwest Baltic Sea. <b>2020</b> , 736, 139493	17
505	MIR spectral characterization of plastic to enable discrimination in an industrial recycling context: III. Anticipating impacts of ageing on identification. <b>2020</b> , 109, 51-64	5
504	Plastic in Marine Litter. <b>2018</b> , 21-59	2

503	Microplastics in the Environment. <b>2018</b> , 60-81	8
502	Transport of marine microplastic particles: why is it so difficult to predict?. <b>2019</b> , 2, 293-305	25
501	Microplastics: Holistic overview of source, identification, interaction, health and environmental implications and strategies of abatement. <b>2020</b> ,	2
500	Mikroplastikler: Gelalarda Bulunuü ve Salk Zerine Etkileri.	O
499	Preliminary Screening for Microplastic Concentrations in the Surface Water of the Ob and Tom Rivers in Siberia, Russia. <b>2021</b> , 13, 80	11
498	What do we know about how the terrestrial multicellular soil fauna reacts to microplastic?. <b>2020</b> , 6, 245-267	29
497	Human Health and Ocean Pollution. <b>2020</b> , 86, 151	58
496	Predicting the Global Environmental Distribution of Plastic Polymers.	
495	Effect of Physical Characteristics and Hydrodynamic Conditions on Transport and Deposition of Microplastics in Riverine Ecosystem. <b>2021</b> , 13, 2710	16
494	Modeling the Pathways and Accumulation Patterns of Micro- and Macro-Plastics in the Mediterranean. <b>2021</b> , 8,	5
493	Microplastics Footprints in a High-Altitude Basin of the Tibetan Plateau, China. 2021, 13, 2805	О
492	Coexistence and Adsorption Properties of Heavy Metals by Polypropylene Microplastics. <b>2021</b> , 2021, 1-12	2
491	Release of the additive metals from 3 commonly used plastics during the degradation under the treatment of UV irradiation. <b>2021</b> , 1	1
490	Reducing environmental plastic pollution by designing polymer materials for managed end-of-life.	21
489	Microplastics in the Center of Mediterranean: Comparison of the Two Calabrian Coasts and Distribution from Coastal Areas to the Open Sea. <b>2021</b> , 18,	2
488	A review of the use of microplastics in reconstructing dated sedimentary archives. <b>2022</b> , 806, 150818	3
487	Dietary Exposure to Additives and Sorbed Contaminants from Ingested Microplastic Particles Through the Consumption of Fisheries and Aquaculture Products. <b>2022</b> , 261-310	
486	Microplastic occurrence in settled indoor dust in schools. <b>2021</b> , 807, 150984	6

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411	Chemical composition of microplastics floating on the surface of the Mediterranean Sea <i>Marine Pollution Bulletin</i> , <b>2022</b> , 174, 113284	6.7	4
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408	Characterizing photochemical ageing processes of microplastic materials using multivariate analysis of infrared spectra <b>2021</b> ,		4
407	High levels of microplastics in commercial salt and industrial salterns in Sri Lanka <i>Marine Pollution Bulletin</i> , <b>2021</b> , 174, 113239	6.7	4
406	First evaluation of microplastic pollution in the surface waters of the Van Bay from Van Lake, Turkey. 1-16		2
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404	PPE pollution in the terrestrial and aquatic environment of the Chittagong city area associated with the COVID-19 pandemic and concomitant health implications <b>2022</b> , 1		3
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402	Large quantities of small microplastics permeate the surface ocean to abyssal depths in the South Atlantic Gyre <b>2022</b> ,		1
401	Feeding of Eriphia gonagra (Crustacea: Eriphiidae) in Two Polluted Reef Areas in Tropical Brazil with Records of Ingestion of Microplastics. <b>2022</b> , 38, 431		
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388	Ingestion of polyethylene microspheres occur only in presence of prey in the jellyfish Aurelia aurita <i>Marine Pollution Bulletin</i> , <b>2022</b> , 175, 113269	О
387	Abundance and Characteristics of Microplastics Contaminating the Surface Water of the Inner Gulf of Thailand. <b>2022</b> , 233, 1	2
386	Ranking of potential hazards from microplastics polymers in the marine environment <b>2022</b> , 429, 128399	9
385	Analysis on advances and characteristics of microplastic pollution in China's lake ecosystems <b>2022</b> , 232, 113254	O
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383	Generation and Management of Microplastic Waste. <b>2022</b> , 3-20	
382	Degradation of Plastic Waste in the Marine Environment. <b>2022</b> , 143-174	
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379	The spatial and temporal changes of beach litter on Istanbul (Turkey) beaches as measured by the clean-coast index <i>Marine Pollution Bulletin</i> , <b>2022</b> , 176, 113407	1
378	Pyrolysis of polyolefin plastic waste and potential applications in asphalt road construction: A technical review. <b>2022</b> , 180, 106213	2

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375	A different protein corona cloaks Erue-to-life[hanoplastics with respect to synthetic polystyrene nanobeads.	1
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372	Microplastics into the Anthropocene. <b>2022</b> , 1363-1378	
371	Impact of Microplastics and Ocean Acidification on Critical Stages of Sea Urchin (Paracentrotus Lividus) Early Development.	
370	A review on marine plastisphere: biodiversity, formation, and role in degradation <b>2022</b> , 20, 975-988	3
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364	Plastic occurrence, sources, and impacts in Antarctic environment and biota. <b>2022</b> , 100034	1
363	The distribution, behavior, and release of macro- and micro-size plastic wastes in solid waste disposal sites. 1-24	0
362	An In Situ Experiment to Evaluate the Aging and Degradation Phenomena Induced by Marine Environment Conditions on Commercial Plastic Granules <b>2022</b> , 14,	2
361	Microplastic pollution in Rawa Jombor Reservoir, Klaten, Central Java, Indonesia: accumulation in aquatic fauna, heavy metal interactions, and health risk assessment. <b>2022</b> , 233, 1	1
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358	Evaluating the Effect of Chemical Digestion Treatments on Polystyrene Microplastics: Recommended Updates to Chemical Digestion Protocols. 2100485	2
357	The Intestinal Barrier-Shielding the Body from Nano- and Microparticles in Our Diet 2022, 12,	2
356	Experimental exposure to microplastics does not affect the physiology of healthy or moderately bleached Anomastraea irregularis and Pocillopora verrucosa corals. <b>2022</b> , 169, 1	O
355	: Converting municipal waste into transportation fuels by pyrolysis <b>2022</b> , 25, 104036	
354	Fragmented fiber pollution from common textile materials and structures during laundry. 00405175221090	9 3
353	Additives, plasticizers, small microplastics (. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 113477 6.7	1
352	Mechanical properties and highly-ordered structural analysis of elastic poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyvalerate] fibers fabricated by partially melting crystals. <b>2022</b> , 247, 124772	
351	Micro- and Nanoplastics Removal Mechanisms in Wastewater Treatment Plants: A Review. <b>2022</b> , 100070	2
350	Interaction of microplastics with metal(oid)s in aquatic environments: what is done so far?. 2022, 100072	
349	Distribution and environmental risk assessment of microplastics in continental shelf sediments in the southern East China Sea: A high-spatial-resolution survey <i>Marine Pollution Bulletin</i> , <b>2022</b> , 177, 113548	О
348	Sorption behavior of Pb(II) onto polyvinyl chloride microplastics affects the formation and ecological functions of microbial biofilms <b>2022</b> , 155026	O
347	A first assessment of microplastic abundance in sandy beach sediments of the ParanagulEstuarine Complex, South Brazil (RAMSAR site) <i>Marine Pollution Bulletin</i> , <b>2022</b> , 177, 113530	0
346	Crops Change the Morphology, Abundance, and Mass of Microplastics in Mollisols of Northeast China <b>2022</b> , 13, 733804	
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344	Adsorption of cyanotoxins on polypropylene and polyethylene terephthalate: Microplastics as vector of eight microcystin analogues <b>2022</b> , 303, 119135	1
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342	Amassing the Covid-19 driven PPE wastes in the dwelling environment of Chittagong Metropolis and associated implications <b>2022</b> , 297, 134022	O

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340	A comprehensive review on integrative approach for sustainable management of plastic waste and its associated externalities <b>2022</b> , 153973	4
339	Molecular interactions of polyvinyl chloride microplastics and beta-blockers (Diltiazem and Bisoprolol) and their effects on marine meiofauna: Combined in vivo and modeling study <b>2022</b> , 431, 128609	2
338	Occurrence of microplastics in a pond-river-lake connection water system: How does the aquaculture process affect microplastics in natural water bodies. <b>2022</b> , 352, 131632	1
337	Identification of microplastics and associated contaminants using ultra high resolution microscopic and spectroscopic techniques <b>2022</b> , 154434	O
336	Micro(nano)plastics pollution and human health: A carcinogenesis concern for humans <b>2022</b> , 134267	11
335	Effect of land use on microplastic pollution in a major boundary waterway: The Arvand River <b>2022</b> , 830, 154728	0
334	Microplastics in intertidal water of South Australia and the mussel Mytilus spp.; the contrasting effect of population on concentration <b>2022</b> , 831, 154875	О
333	An overview of the effects of nanoplastics on marine organisms 2022, 154757	4
332	Unraveling the hazardous impact of diverse contaminants in the marine environment: Detection and remedial approach through nanomaterials and nano-biosensors <b>2022</b> , 433, 128720	2
331	Effect of microplastics on microbial dechlorination of a polychlorinated biphenyl mixture (Aroclor 1260) <b>2022</b> , 831, 154904	0
330	Microplastics and associated organic pollutants in beach sediments from the Gulf of Guinea (SE Atlantic) coastal ecosystems <b>2022</b> , 298, 134193	2
329	Global transportation of plastics and microplastics: A critical review of pathways and influences <b>2022</b> , 154884	2
328	First report of plastic contamination in batoids: Plastic ingestion by Haller's Round Ray (Urobatis halleri) in the Gulf of California <b>2022</b> , 211, 113077	O
327	Visualizing undyed microplastic particles and fibers with plasmon-enhanced fluorescence. <b>2022</b> , 442, 136117	O
326	Comparative study on the microplastics abundance, characteristics, and possible sources in yellow clams of different demographic regions of the northwest coast of India. <b>2022</b> , 3, 100051	2
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320	Microplastics in Wastewater Treatment Plants: Occurrence, Fate and Mitigation Strategies. <b>2022</b> , 81-100	O
319	Controlling Factors of Microplastic Riverine Flux and Implications for Reliable Monitoring Strategy <b>2022</b> , 56, 48-61	2
318	Current Research Trends for Treatment of Microplastics. <b>2020</b> , 29, 15-27	1
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316	Microplastics Pollution in Coastal Zones. <b>2022</b> , 89-113	O
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314	Impact of 2018 Kerala flood on the abundance and distribution of microplastics in marine environment off Cochin, Southeastern Arabian Sea, India. <b>2022</b> , 102367	O
313	Microplastics in freshwater environment: occurrence, analysis, impact, control measures and challenges.	О
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311	Seasonal Distribution, Composition, and Inventory of Plastic Debris on the Yugang Park Beach in Zhanjiang Bay, South China Sea <b>2022</b> , 19,	1
310	Composition and spatial distribution of floating plastic debris along the estuarine ecocline of a subtropical coastal lagoon in the Western Atlantic <i>Marine Pollution Bulletin</i> , <b>2022</b> , 179, 113648	O
309	Simulated degradation of low-density polyethylene and polypropylene due to ultraviolet radiation and water velocity in the aquatic environment. <b>2022</b> , 10, 107553	O
308	Microplastics across biomes in diadromous species. Insights from the critically endangered Anguilla anguilla <b>2022</b> , 305, 119277	O
307	The distribution and risk of microplastics discharged from sewage treatment plants in terrestrial and aquatic compartment <b>2022</b> , 314, 115067	О
306	Microplastics in dust from different indoor environments <b>2022</b> , 155256	1

305	Microplastic pollution in fragile coastal ecosystems with special reference to the Xpress Pearl maritime disaster, southeast coast of India <b>2022</b> , 119297	0
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297	Crack Patterns of Environmental Plastic Fragments 2022,	1
296	The effects of salinity, temperature, and UV irradiation on leaching and adsorption of phthalate esters from polyethylene in seawater <b>2022</b> , 155461	2
295	Microplastic Variations in Land-Based Sources of Coastal Water Affected by Tropical Typhoon Events in Zhanjiang Bay, China. <b>2022</b> , 14, 1455	O
294	Effectiveness of microplastics removal in wastewater treatment plants: A critical analysis of wastewater treatment processes. <b>2022</b> , 107831	1
293	Characteristics of microplastic pollution and analysis of colonized-microbiota in a freshwater aquaculture system <b>2022</b> , 119385	1
292	Impact of microplastics and ocean acidification on critical stages of sea urchin (Paracentrotus lividus) early development <b>2022</b> , 134783	O
291	The use of surrogate standards as a QA/QC tool for routine analysis of microplastics in sewage sludge <b>2022</b> , 155485	О
290	Discrepancy strategies of sediment abundant and rare microbial communities in response to floating microplastic disturbances: Study using a microcosmic experiment <b>2022</b> , 835, 155346	O
289	Anthropogenic microfibers are highly abundant at the Burdwood Bank seamount, a protected sub-Antarctic environment in the Southwestern Atlantic Ocean <b>2022</b> , 119364	О
288	Microplastic presence in the pelagic fish, Seriola dumerili, from Balearic Islands (Western Mediterranean), and assessment of oxidative stress and detoxification biomarkers in liver <b>2022</b> , 212, 113369	1

287	Metabolomic disorders unveil hepatotoxicity of environmental microplastics in wild fish Serranus scriba (Linnaeus 1758) <b>2022</b> , 155872		2
286	Long-term effects of lithium and lithium-microplastic mixtures on the model species Daphnia magna: Toxicological interactions and implications to 'One Health' <b>2022</b> , 155934		О
285	Identification, Abundance, and Chemical Characterization of Macro-, Meso-, and Microplastics in the Intertidal Zone Sediments of Two Selected Beaches in Sabah, Malaysia. <b>2022</b> , 14, 1600		1
284	Distribution characteristics of microplastics in surface and subsurface Antarctic seawater. <b>2022</b> , 156051		1
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282	Integrated effects of polymer type, size and shape on the sinking dynamics of biofouled microplastics. <b>2022</b> , 220, 118656		O
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279	Degradation and Fragmentation of Microplastics. 2022, 227-268		O
278	Pollutants Sorbed Onto Microplastics. <b>2022</b> , 269-299		
277	Plastics in the Anthropocene. <b>2022</b> , 1-42		O
276	Estimating Microplastics in Deep Water. <b>2022</b> , 131-149		
275	Plastics in Freshwater Bodies. <b>2022</b> , 199-225		
274	Closing the Carbon Loop in the Circular Plastics Economy. 2200247		1
273	Systematic study of the presence of microplastic fibers during polyester yarn production. <b>2022</b> , 132247		2
272	Huge quantities of microplastics are liddenlin the sediment of China's largest urban lakellangxun Lake. <b>2022</b> , 119500		O
271	A Mechanistic Understanding of Polyethylene Biodegradation by the Marine Bacterium Alcanivorax. <b>2022</b> , 129278		1
270	Weathering and fragmentation of plastic debris in the ocean environment. Marine Pollution Bulletin	5.7	О

269	Retention and dispersion of buoyant plastic debris in a well-mixed estuary from drifter observations. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 180, 113793	6.7	О
268	Are bivalves a source of microplastics for humans? A case study in the Brazilian markets. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 113823	6.7	2
267	Repulsive Interactions of Eco-corona-Covered Microplastic Particles Quantitatively Follow Modeling of Polymer Brushes.		2
266	Plastisphere community assemblage of aquatic environment: plastic-microbe interaction, role in degradation and characterization technologies. <b>2022</b> , 17,		O
265	Microfiber Contamination in Potable Water: Detection and Mitigation Using a Filtering Device. <b>2022</b> , 1, 322-333		O
264	Effects of microplastic ingestion on hydrogen production and microbiomes in the gut of the terrestrial isopod Porcellio scaber.		
263	A baseline study of meso and microplastic predominance in pristine beach sediment of the Indian tropical island ecosystem. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 113825	6.7	0
262	Environmentally friendly microbeads to model the dispersal of particulates in aquatic systems. <b>2022</b> , 156680		
261	Interaction between nanoplastics and pectin, a water-soluble polysaccharide, in the presence of Fe(III) ion. <b>2022</b> , 10, 108054		О
260	Microplastics alter nitrous oxide production and pathways through affecting microbiome in estuarine sediments. <b>2022</b> , 221, 118733		1
259	A review on microplastics and nanoplastics in the environment: Their occurrence, exposure routes, toxic studies, and potential effects on human health. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 181, 113832	6.7	2
258	Blueprint for the ideal microplastic effect study: Critical issues of current experimental approaches and envisioning a path forward. <b>2022</b> , 838, 156610		O
257	Wastewater plastisphere enhances antibiotic resistant elements, bacterial pathogens, and toxicological impacts in the environment. <b>2022</b> , 841, 156805		0
256	Scientometric analysis and scientific trends on microplastics research. <b>2022</b> , 304, 135337		2
255	Remediation of Plastic Waste Through Cohesive Approaches. 2022, 337-363		
254	Microplastics Pollution and its Potential Correlation between and Environmental Factors in Daya Bay, South China Sea.		
253	A sustainable acoustic customization of open porous materials using recycled plastics. 2022, 12,		1
252	Microplastics in the Gulf of Mexico: A Bird⊠ Eye View. <b>2022</b> , 14, 7849		

251	Synergistic Adsorption of Organic Pollutants on Weathered Polyethylene Microplastics. <b>2022</b> , 14, 2674		О
250	Sustainable Polymers: Our Evolving Understanding. <b>2022</b> , 55, 1869-1878		1
249	The fate of microplastics in wastewater treatment plants: An overview of source and remediation technologies. <b>2022</b> , 102815		2
248	In situ laboratory for plastic degradation in the Red Sea. <b>2022</b> , 12,		
247	Marine Debris Floating in Arctic and Temperate Northeast Atlantic Waters. 9,		О
246	Modifications of microplastics in urban environmental management systems: A review. <b>2022</b> , 118843		1
245	Plastics in soil description and surveys [practical considerations and field guide. 2,		
244	Microplastic contamination of coastal hill soils: Perspective of Rohingya Refugee camps in Bangladesh. 1-12		O
243	Microplastics in Seawater, Sediment, and Organisms from Hangzhou Bay. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 181, 113940	6.7	О
242	Seasonal heterogeneity and a link to precipitation in the release of microplastic during COVID-19 outbreak from the Greater Jakarta area to Jakarta Bay, Indonesia. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 181, 113926	6.7	1
241	Quantitative assessment of microplastic in sandy beaches of Gujarat state, India. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 181, 113925	6.7	О
240	Accumulation of microplastics in fish guts and gills from a large natural lake: Selective or non-selective?. <b>2022</b> , 309, 119785		1
239	Change in adsorption behavior of aquatic humic substances on microplastic through biotic and abiotic aging processes. <b>2022</b> , 843, 157010		О
238	Occurrence and distribution of microplastics in peatland areas: A case study in Long An province of the Mekong Delta, Vietnam. <b>2022</b> , 844, 157066		О
237	Micro-contaminant, but immense impact: Source and influence of diethyl phthalate plasticizer on bottom-dwelling fishes. <b>2022</b> , 306, 135563		
236	Fragmented fibre (including microplastic) pollution from textiles. <b>2021</b> , 53, 123-182		1
235	Recent advances in the breakdown of microplastics: strategies and future prospectives.		О
234	Environmental Decay of Single Use Surgical Face Masks as an Agent of Plastic Micro-Fiber Pollution. <b>2022</b> , 9, 94		

233	Plastic pollution fosters more microbial growth in lakes than natural organic matter. 2022, 13,	2
232	Effects of Microplastics on Reproduction and Growth of Freshwater Live Feeds Daphnia magna. <b>2022</b> , 7, 181	
231	Floating microplastics pollution in the Central Atlantic Ocean of Morocco: Insights into the occurrence, characterization, and fate. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 182, 113969	2
230	A whale of a plastic tale: A plea for interdisciplinary studies to tackle micro- and nanoplastic pollution in the marine realm. <b>2022</b> , 846, 157187	O
229	Miniaturized near-infrared spectroscopy in current analytical chemistry: from natural products to forensics. <b>2022</b> , 141-188	
228	Environmental Degradation of Microplastics: How to Measure Fragmentation Rates to Secondary Micro- and Nanoplastic Fragments and Dissociation into Dissolved Organics. <b>2022</b> , 56, 11323-11334	1
227	Tidal variation shaped microplastic enrichment patterns in mangrove blue carbon ecosystem of northern Beibu Gulf, China. 9,	1
226	Microplastics in food: scoping review on health effects, occurrence, and human exposure. <b>2022</b> , 9,	2
225	In Situ Fluorescent Illumination of Microplastics in Water Utilizing a Combination of Dye/Surfactant and Quenching Techniques. <b>2022</b> , 14, 3084	
224	Approaches for Management and Valorization of Non-Homogeneous, Non-Recyclable Plastic Waste. <b>2022</b> , 19, 10088	2
223	Occurrence, sources, and relationships of soil microplastics with adsorbed heavy metals in the Ebinur Lake Basin, Northwest China. <b>2022</b> , 14, 910-924	
222	The ecotoxicological consequences of microplastics and co-contaminants in aquatic organisms: a mini-review.	2
221	Microplastics in freshly fallen snow: How may it adversely impact human health and exacerbate the COVID-19 crisis?. <b>2022</b> , 80, 104276	
220	Slower antibiotics degradation and higher resistance genes enrichment in plastisphere. <b>2022</b> , 222, 118920	O
219	Microplastics in Internal Tissues of Companion Animals from Urban Environments. 2022, 12, 1979	1
218	Life Cycle Assessment of Microplastics Reveals Their Greater Environmental Hazards than Mismanaged Polymer Waste Losses. <b>2022</b> , 56, 11780-11797	O
217	Oxidation and fragmentation of plastics in a changing environment; from UV-radiation to biological degradation. <b>2022</b> , 158022	1
216	Cassava starch films: effect of polyvinyl alcohol on films (water diffusion, permeation and sorption behavior and mechanical properties.	

215	Distribution, sources, migration, influence and analytical methods of microplastics in soil ecosystems. <b>2022</b> , 243, 114009	2
214	Spatio-temporal variation and seasonal dynamics of stranded beach anthropogenic debris on Indonesian beach from the results of nationwide monitoring. <b>2022</b> , 182, 114035	О
213	Vertically co-distributed vanadium and microplastics drive distinct microbial community composition and assembly in soil. <b>2022</b> , 440, 129700	О
212	Electronic Waste Generation by Selected Students of a University in Bangladesh: A Case Study. <b>2022</b> , 26,	
211	The Ocean Plastic Incubator Chamber (OPIC) system to monitor in situ plastic degradation at sea. <b>2022</b> , 311, 119868	
210	Diffusion-limited hydrolysis in polymeric materials. <b>2022</b> , 204, 110095	О
209	Impacts of microplastics addition on sediment environmental properties, enzymatic activities and bacterial diversity. <b>2022</b> , 307, 135836	1
208	Toxicity of micro(nano)plastics with different size and surface charge on human nasal epithelial cells and rats via intranasal exposure. <b>2022</b> , 307, 136093	2
207	Recent advances on the effects of microplastics on elements cycling in the environment. 2022, 849, 157884	1
206	Screening of <del>Er</del> oplastic <del>Bn</del> tent in Surface Waters of Russian Rivers. <b>2022</b> , 26, 67-71	О
205	Global meta-analysis reveals diverse effects of microplastics on freshwater and marine fishes.	1
204	Chitosan-coated mesoporous silica particles as a plastic-free platform for photochemical suppression and stabilization of organic ultraviolet filters. <b>2022</b> , 235, 112565	О
203	Ecological traits influence the bioaccumulation of microplastics in commercially important estuarine crabs from the southeastern Gulf of Mexico. <b>2022</b> , 183, 114088	О
202	Fluoride enhances polystyrene nanoparticles cytotoxicity in colonocytes in vitro model. <b>2022</b> , 367, 110169	О
201	Degradation-fragmentation of marine plastic waste and their environmental implications: A critical review. <b>2022</b> , 15, 104262	2
200	Microplastic contamination of supraglacial debris differs among glaciers with different anthropic pressures. <b>2022</b> , 851, 158301	О
199	Effective removal of nanoplastics from water by cellulose/MgAl layered double hydroxides composite beads. <b>2022</b> , 298, 120059	О
198	Separation of Microplastic Particles from Sewage Sludge Extracts Using Magnetic Seeded Filtration. <b>2022</b> , 17, 100155	О

197	Flow and stock accumulation of plastics in China: Patterns and drivers. 2022, 852, 158513	O
196	Flows and waste reduction strategies of PE, PP, and PET plastics under plastic limit order in China. <b>2023</b> , 188, 106668	O
195	How many microplastics do we ingest when using disposable drink cups?. 2023, 441, 129982	O
194	Warmer water, high light intensity, lithium and microplastics: Dangerous environmental combinations to zooplankton and Global Health?. <b>2023</b> , 854, 158649	1
193	Acute effects of three surface-modified nanoplastics against Microcystis aeruginosa: Growth, microcystin production, and mechanisms. <b>2023</b> , 855, 158906	O
192	The different ways microplastics from the water column and sediment accumulate in fish in Haizhou Bay. <b>2023</b> , 854, 158575	O
191	Chitosan-Coated Mesoporous Silica Particles as a Plastic-Free Platform for Photochemical Suppression and Stabilization of Organic Ultraviolet Filters.	О
190	Identification of micro- and nanoplastics released from medical masks using hyperspectral imaging and deep learning.	O
189	Surface characteristics and biotoxicity of airborne microplastics. 2022,	O
188	Formation of airborne microplastics. 2022,	O
187	Microplastics (MPs) in marine food chains: Is it a food safety issue?. 2022,	O
186	Acute Effects of Three Surface Modified Nanoplastics Against Microcystis Aeruginosa: Growth, Microcystin Production, and Mechanisms.	O
185	Addressing main challenges in the tertiary treatment of urban wastewater: are homogeneous photodriven AOPs the answer?. <b>2022</b> , 8, 2145-2169	1
184	Mitigation, Management, and the Challenges Ahead. <b>2022</b> , 67-72	O
.0		
183	Effects of Weathering on Microplastic Dispersibility and Pollutant Uptake Capacity.	О
182	Effects of Weathering on Microplastic Dispersibility and Pollutant Uptake Capacity.  Anti-predator behavioral responses of Italian agile frog tadpoles (Rana latastei) exposed to microplastics.	0
	Anti-predator behavioral responses of Italian agile frog tadpoles (Rana latastei) exposed to	

179	Slow and steady hurts crab: The effects of chronic and acute microplastic exposures on a filter feeder crab. <b>2022</b> , 159135	0
178	Prevalence of Microplastics, Antibiotic Resistant Genes and Microplastic Associated Biofilms in Estuary - A Review.	Ο
177	Quantifying the fragmentation of polypropylene upon exposure to accelerated weathering. <b>2022</b> , 2,	Ο
176	Physical and biomimetic treatment methods to reduce microplastic waste accumulation.	1
175	Rapid Identification of Beached Marine Plastics Pellets Using Laser-Induced Breakdown Spectroscopy: A Promising Tool for the Quantification of Coastal Pollution. <b>2022</b> , 22, 6910	1
174	Plastic ingestion and associated additives in Faroe Islands chicks of the Northern Fulmar Fulmarus glacialis. <b>2022</b> , 100079	1
173	Mechanical and thermal properties of poly (butylene adipate-butylene terephthalate) modified with phenol hydroxyl terminated polysiloxane.	О
172	COVID-19: An Accelerator for Global Plastic Consumption and Its Implications. <b>2022</b> , 2022, 1-17	Ο
171	Environmental risk, toxicity, and biodegradation of polyethylene: a review.	1
170	Hydrodynamic modelling in marginal and coastal seas IThe case of the Adriatic Sea as a permanent laboratory for numerical approach. <b>2022</b> , 179, 102123	Ο
169	How small is the big problem? Small microplastics <300 th abundant in marine surface waters of the Great Barrier Reef Marine Park. <b>2022</b> , 184, 114179	О
168	Nano/microplastics: Fragmentation, interaction with co-existing pollutants and their removal from wastewater using membrane processes. <b>2022</b> , 309, 136682	1
167	Spatial Variations in Microfiber Transport in a Transnational River Basin. <b>2022</b> , 12, 10852	О
166	Potential human health risk assessment of microplastic exposure: current scenario and future perspectives. <b>2022</b> , 194,	Ο
165	Microplastics in Abiotic Compartments of a Hypersaline Lacustrine Ecosystem.	1
164	Local order parameter that distinguishes crystalline and amorphous portions in polymer crystal lamellae.	O
163	Microplastics in the Marine Environment: A Review of Their Sources, Formation, Fate, and Ecotoxicological Impact.	1
162	Investigation on the adsorption-desorption behavior of antibiotics by polybutylene succinate and polypropylene aged in different water conditions.	О

161	Influence of Particle Size and Fragmentation on Large-Scale Microplastic Transport in the Mediterranean Sea.	0
160	Opening Space for Plastics Why Spatial, Soil and Land Use Data Are Important to Understand Global Soil (Micro) Plastic Pollution. <b>2022</b> , 1, 610-625	O
159	Microplastic Pollution in the Soil Environment: Characteristics, Influencing Factors, and Risks. <b>2022</b> , 14, 13405	1
158	Mycobacteriaceae Mineralizes Micropolyethylene in Riverine Ecosystems.	О
157	Binding Between Antibiotics and Polystyrene Nanoparticles Examined by NMR.	О
156	Microplastics pollution from wastewater treatment plants: A critical review on challenges, detection, sustainable removal techniques and circular economy. <b>2022</b> , 28, 102946	1
155	Microplastic Accumulation in Crayfish Astacus leptodactylus (Eschscholtz 1823) and Sediments of Durusu (Terkos) Lake (Turkey). <b>2022</b> , 233,	O
154	Lebensspuren and m¶spuren: Drifting plastic bags alter microtopography of seafloor at full ocean depth (10,000´m, Philippine Trench). <b>2022</b> , 250, 104867	О
153	Aging Process of Microplastics in The Aquatic Environments: Aging Pathway, Characteristic Change, Compound Effect, and Environmentally Persistent Free Radicals Formation. <b>2022</b> , 14, 3515	1
152	H2O2 concentration influenced the photoaging mechanism and kinetics of polystyrene microplastic under UV irradiation: Direct and indirect photolysis. <b>2022</b> , 135046	О
151	Bacterial colonization dynamics of different microplastic types in an anoxic salt marsh sediment and impact of adsorbed polychlorinated biphenyls on the plastisphere. <b>2022</b> , 315, 120411	О
150	A community of marine bacteria with potential to biodegrade petroleum-based and biobased microplastics. <b>2022</b> , 185, 114251	О
149	An ecotoxicological risk model for the microplastics in arctic waters. <b>2022</b> , 315, 120417	О
148	Environmental challenges of COVID-19 pandemic: resilience and sustainability 🗗 review. <b>2023</b> , 216, 114496	1
147	Microplastic materials in the environment: Problem and strategical solutions. 2023, 132, 101035	2
146	Screening of polymer type and chemical weathering in macro and mesoplastics found in lake and river beaches using a combined chemometric approach.	О
145	Release of millions of micro(nano)plastic fragments from photooxidation of disposable plastic boxes. <b>2023</b> , 858, 160044	O
144	Characterization of Microplastics by Advanced Analytical Techniques. 2022, 71, 541-547	O

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143	Meso- and microplastic distribution and spatial connections to metal contaminations in highly cultivated and urbanised floodplain soilscapes (a case study from the Nidda River (Germany). <b>2022</b> , 2,	O
142	Spin-Trapping Analysis of the Thermal Degradation Reaction of Polyamide 66. <b>2022</b> , 14, 4748	O
141	Effects of plastic particles on aquatic invertebrates and fish [A review. 2022, 96, 104013	3
140	Research Progress of Microplastic Pollution in the Vadose Zone. <b>2022</b> , 14, 3586	0
139	Accumulation, transformation and transport of microplastics in estuarine fronts. <b>2022</b> , 3, 795-805	1
138	Comprehensive Multiphase NMR Examination of Amino Acids Binding to the Dynamic Shell of Polystyrene Nanoparticles to Understand Environmental Hazards Associated with Nanoscale Plastic.	O
137	Short-Term Exposure to Nanoplastics Does Not Affect Bisphenol A Embryotoxicity to Marine Ascidian Ciona robusta. <b>2022</b> , 12, 1661	O
136	Biofilm formation strongly influences the vector transport of triclosan-loaded polyethylene microplastics. <b>2022</b> , 160231	1
135	Unraveling the potential human health risks from used disposable face mask-derived micro/nanoplastics during the COVID-19 pandemic scenario: a critical review. <b>2022</b> , 107644	1
134	Microplastic fouling: A gap in knowledge and a research imperative to improve their study by infrared characterization spectroscopy. <b>2022</b> , 185, 114306	O
133	Effect of Polymer Properties on the Biodegradation of Polyurethane Microplastics.	1
132	Microsynthetics in waters of the South American Pantanal. 10,	O
131	Identification and quantification of additive-derived chemicals in beached microfinesoplastics and macroplastics. <b>2023</b> , 186, 114438	O
130	A stable isotope assay with 13C-labeled polyethylene to investigate plastic mineralization mediated by Rhodococcus ruber. <b>2023</b> , 186, 114369	2
129	Evaluation of plastic packaging waste degradation in seawater and simulated solar radiation by spectroscopic techniques. <b>2023</b> , 207, 110215	2
128	Occurrence and distribution of legacy and emerging pollutants including plastic debris in Antarctica: Sources, distribution and impact on marine biodiversity. <b>2023</b> , 186, 114353	0
127	Effects of microplastics on nitrogen and phosphorus cycles and microbial communities in sediments. <b>2023</b> , 318, 120852	1
126	Adsorption behavior of UV aged microplastics on the heavy metals Pb(II) and Cu(II) in aqueous solutions. <b>2023</b> , 313, 137439	O

125	Microplastics Pollution: A Brief Review of Its Source and Abundance in Different Aquatic Ecosystems. <b>2023</b> , 9, 100215	0
124	Mechanisms influencing the impact of microplastics on freshwater benthic invertebrates: Uptake dynamics and adverse effects on Chironomus riparius. <b>2023</b> , 859, 160426	O
123	Abundance, spatial distribution, and characteristics of microplastics in agricultural soils and their relationship with contributing factors. <b>2023</b> , 328, 117006	0
122	Granular limestone amended sand filters for enhanced removal of nanoplastics from water: Performance and mechanisms. <b>2023</b> , 229, 119443	O
121	Adsorption of sulfonamides on polyamide microplastics in an aqueous solution: behavior, structural effects, and its mechanism. <b>2023</b> , 454, 140452	0
120	Adsorption of naphthalene and its derivatives onto high-density polyethylene microplastic: Computational, isotherm, thermodynamic, and kinetic study. <b>2023</b> , 318, 120919	O
119	Microplastics in the riverine environment: Meta-analysis and quality criteria for developing robust field sampling procedures. <b>2023</b> , 863, 160893	0
118	Microplastic Contamination and Ecological Status of Freshwater Ecosystems: A Case Study in Two Northern Portuguese Rivers. <b>2022</b> , 19, 15956	0
117	Environmentally weathered polystyrene particles induce phenotypical and functional maturation of human monocyte-derived dendritic cells. <b>2022</b> , 19, 125-133	0
116	Understanding the potential release of microplastics from coatings used on commercial ships. 9,	O
115	Microbial Production of Pyruvic, Lactic, and 3-Hydroxy Propionic Acid from Renewable Resources. <b>2023</b> , 1-23	0
114	Assessment of Microplastics in Green Mussel (Perna viridis) and Surrounding Environments around Sri Racha Bay, Thailand. <b>2023</b> , 15, 9	0
113	Occurrence of Microplastics in Wastewater Treatment Plants. 2022, 91-117	0
112	Impacts and Threats of Marine Litter in African Seas. <b>2023</b> , 91-136	O
111	Nanoplastics in Urban Waters. <b>2022</b> , 407-444	0
110	Microplastics uptake in wild Asian green mussels sampled from Pasir Putih estuary in Johor, Malaysia. <b>2022</b> , 1121, 012008	O
109	Microplastic Effects on Thrombin Bibrinogen Clotting Dynamics Measured via Turbidity and Thromboelastography. <b>2022</b> , 12, 1864	0
108	Microplastics in Freshwater: A Focus on the Russian Inland Waters. <b>2022</b> , 14, 3909	O

107	Microplastics Contamination in Receiving Water Systems. <b>2022</b> , 243-286	О
106	Bacterial dynamics during the burial of starch-based bioplastic and oxo-low-density-polyethylene in compost soil. <b>2022</b> , 22,	1
105	Microplastics Dynamics in the Bathing Seawater Affected by the Ebb Tide in Zhanjiang Bay, China. <b>2022</b> , 10, 1947	0
104	Characterization of fiber fragments released from polyester textiles during UV weathering. <b>2023</b> , 121012	O
103	Spatiotemporal characterisation of microplastics in the coastal regions of Singapore. 2023, e12961	0
102	Polystyrene as a vector of heavy metals in hard clam Meretrix lusoria under various salinities. 9,	Ο
101	Microplastics in Freshwaters: Implications for Aquatic Autotrophic Organisms and Fauna Health. <b>2023</b> , 2, 39-59	Ο
100	Photoaging process of microplastics and their pollutant release. 2023,	Ο
99	Microplastic Contaminants in the Sediment of the East Coast of Saudi Arabia.	О
98	Microplastics in multimedia environment: A systematic review on its fate, transport, quantification, health risk, and remedial measures. <b>2023</b> , 20, 100889	Ο
97	Microplastics toxicity, detection, and removal from water/wastewater. 2023, 187, 114546	Ο
96	Adsorption/desorption behavior of ciprofloxacin on aged biodegradable plastic PLA under different exposure conditions. <b>2023</b> , 11, 109256	Ο
95	Laboratory simulated aging methods, mechanisms and characteristic changes of microplastics: A review. <b>2023</b> , 315, 137744	0
94	Biological effects on the migration and transformation of microplastics in the marine environment. <b>2023</b> , 185, 105875	O
93	Lakes with or without urbanization along their coasts had similar level of microplastic contamination, but significant differences were seen between sampling methods. <b>2023</b> , 866, 161254	0
92	Microplastic pollution in sediments of urban rainwater drainage system. <b>2023</b> , 868, 161673	O
91	Microplastics exacerbate virus-mediated mortality in fish. 2023, 866, 161191	1
90	Variations in the spatial distribution of expanded polystyrene marine debris: Are Asian's coastlines more affected?. <b>2023</b> , 11, 100342	Ο

89	Post-pandemic micro/nanoplastic pollution: Toward a sustainable management. <b>2023</b> , 867, 161390	1
88	Property assessment of an eco-friendly mortar reinforced with recycled mask fiber derived from COVID-19 single-use face masks. <b>2023</b> , 66, 105885	1
87	PHA-Based Bioplastic: a Potential Alternative to Address Microplastic Pollution. 2023, 234,	1
86	Microplastics in the Ecosystem: An Overview on Detection, Removal, Toxicity Assessment, and Control Release. <b>2023</b> , 15, 51	2
85	Microplastic in the Soil Environment IClassification and Sources in Relation to Research Conducted in Poland. <b>2022</b> , 20, 51-61	O
84	Understanding the underestimated: Occurrence, distribution, and interactions of microplastics in the sediment and soil of China, India, and Japan. <b>2022</b> , 120978	O
83	Are microplastics contributing to pollution-induced neurotoxicity? A pilot study with wild fish in a real scenario. <b>2023</b> , 9, e13070	1
82	Nano- and microplastics in the environment: a potential threat to in-situ bioremediation of wastewaters. <b>2023</b> , 417-436	O
81	Distribution of Microplastic Abundance and Composition in Surface Water around Anthropogenic Areas (Case Study: Jeneberang River, South Sulawesi, Indonesia). <b>2023</b> , 1134, 012039	О
80	Pretreatment methods for monitoring microplastics in soil and freshwater sediment samples: A comprehensive review. <b>2023</b> , 871, 161718	O
79	A global synthesis of microplastic contamination in wild fish species: Challenges for conservation, implications for sustainability of wild fish stocks and future directions. <b>2023</b> ,	O
78	Organic additives in marine plastics: occurrence, leaching, impacts, and regulatory aspects. <b>2023</b> , 349-373	O
77	Could spatial variation be more important than species identity in determining the presence of microplastics in temperate sponges?. 1-19	О
76	Non-isothermal crystallization analysis of recycled high-density polyethylene/black shale composites.	O
75	Recent Advances in Catalytic Chemical Recycling of Polyolefins.	O
74	Multidecadal heavy metals and microplastic deposition records in an urban lake: the ecological risk assessments and influencing factors.	O
73	Investigation of dynamic change in microplastics vertical distribution patterns: The seasonal effect on vertical distribution. <b>2023</b> , 189, 114674	О
72	Do microplastics influence the long-term effects of ciprofloxacin on the polychaete Hediste diversicolor? An integrated behavioral and biochemical approach. <b>2023</b> , 99, 104088	Ο

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71	Polypropylene microplastics aging under natural conditions in winter and summer and its effects on the sorption and desorption of nonylphenol. <b>2023</b> , 225, 115615	О
70	Microbial resistance in rhizosphere hotspots under biodegradable and conventional microplastic amendment: Community and functional sensitivity. <b>2023</b> , 180, 108989	О
69	Tracking microplastics contamination in drinking water in Zahedan, Iran: From source to consumption taps. <b>2023</b> , 872, 162121	0
68	Effects of polystyrene nanoplastic gestational exposure on mice. <b>2023</b> , 324, 138255	O
67	A double sliding-window method for baseline correction and noise estimation for Raman spectra of microplastics. <b>2023</b> , 190, 114887	0
66	Source or sink role of an urban lake for microplastics from Guangdong-Hong Kong-Macao greater bay area, China. <b>2023</b> , 224, 115492	O
65	Accumulation and re-distribution of microplastics via aquatic plants and macroalgae - A review of field studies. <b>2023</b> , 187, 105951	O
64	Neurotoxicity and endocrine disruption caused by polystyrene nanoparticles in zebrafish embryo. <b>2023</b> , 874, 162406	O
63	A systematic review on the aging of microplastics and the effects of typical factors in various environmental media. <b>2023</b> , 162, 117025	O
62	Fibrous microplastics released from textiles: Occurrence, fate, and remediation strategies. <b>2023</b> , 256, 104169	O
61	Microplastics in biotic and abiotic compartments of high-mountain lakes from Alps. 2023, 150, 110215	0
60	Detection and characterization of microplastics in the human testis and semen. 2023, 877, 162713	О
59	K₩LagB Sedimentlerinde Mikroplastiklerin OluÜmlarÐe Mekansal DaÆhlarÐKØÐkmece LagBÆneÐ 1-11	O
58	Microplastics in aquatic environments: A comprehensive review of toxicity, removal, and remediation strategies. <b>2023</b> , 876, 162414	О
57	Assessment of microplastics in edible salts from solar saltpans and commercial salts. <b>2023</b> , 6, 100032	O
56	Removal of pristine and aged microplastics from water by magnetic biochar: Adsorption and magnetization. <b>2023</b> , 875, 162647	О
55	Source, occurrence, distribution, fate, and implications of microplastic pollutants in freshwater on environment: A critical review and way forward. <b>2023</b> , 325, 138367	O
54	Mechanisms of polystyrene nanoplastics adsorption onto activated carbon modified by ZnCl2. <b>2023</b> , 876, 162763	O

53	First quantification and chemical characterization of atmospheric microplastics observed in Seoul, South Korea. <b>2023</b> , 327, 121481	О
52	Quantification and characterization of microplastics in surface water samples from the Northeast Atlantic Ocean using laser direct infrared imaging. <b>2023</b> , 190, 114880	O
51	Long term trends in floating plastic pollution within a marine protected area identifies threats for Endangered northern bottlenose whales. <b>2023</b> , 227, 115686	Ο
50	Microplastics segregation by rise velocity at the ocean surface. <b>2023</b> , 18, 024036	О
49	From marine to freshwater environment: A review of the ecotoxicological effects of microplastics. <b>2023</b> , 251, 114564	1
48	Experimental and modeling study on the simultaneous fouling behavior of micro/nanoplastics and bovine serum albumin in ultrafiltration membrane separation. <b>2023</b> , 11, 109354	O
47	Iodine-131 radiolabeled polyvinylchloride: A potential radiotracer for micro and nanoplastics bioaccumulation and biodistribution study in organisms. <b>2023</b> , 188, 114627	Ο
46	Microplastic occurrence in fish species from the Iquitos region in Peru, western Amazonia. <b>2023</b> , 53, 65-72	O
45	Photoaging processes of polyvinyl chloride microplastics enhance the adsorption of tetracycline and facilitate the formation of antibiotic resistance. <b>2023</b> , 320, 137820	О
44	Settling behaviors of microplastic disks in water. <b>2023</b> , 188, 114657	O
43	Distribution and sources of microplastics in the Beibu Gulf using in-situ filtration technique. <b>2023</b> , 188, 114614	O
42	Marine litter colonization: Methodological challenges and recommendations. 10,	O
41	Legacy of New NormallPlastics and New Nitrogenlin the Cyanotoxin Footprint in Mangrove Ecosystems. <b>2023</b> , 3, 106-126	O
40	Biotechnological methods to remove microplastics: a review.	1
39	Recognition of microplastics suspended in seawater via refractive index by Mueller matrix polarimetry. <b>2023</b> , 188, 114706	1
38	The effect of polystyrene foam in different doses on the blood parameters and relative mass of internal organs of white mice. <b>2022</b> , 30, 436-441	O
37	Eco-friendly microplastic removal through physical and chemical techniques: a review. 2023, 7,	0
36	Bringing Quantum Mechanics to Coarse-Grained Soft Materials Modeling. <b>2023</b> , 35, 1470-1486	O

35	Effects of chlorination on microplastics pollution: Physicochemical transformation and chromium adsorption. <b>2023</b> , 323, 121254	O
34	Microplastics: The stemming environmental challenge and the quest for the missing mitigation strategies. <b>2023</b> , 179, 105581	O
33	A Biodegradable, Bio-Based Polymer for the Production of Tools for Aquaculture: Processing, Properties and Biodegradation in Sea Water. <b>2023</b> , 15, 927	O
32	Presence of microplastics and microparticles in Oregon Black Rockfish sampled near marine reserve areas. 11, e14564	O
31	Microplastics in Terrestrial Domestic Animals and Human Health: Implications for Food Security and Food Safety and Their Role as Sentinels. <b>2023</b> , 13, 661	O
30	Spatiotemporal distribution of seabed litter in the SE Levantine Basin during 2012[021. 2023, 188, 114714	O
29	Nile Red staining for the detection of microplastics: a comprehensive study on the emission spectra.	O
28	Remediation plan of nano/microplastic toxicity in food. <b>2023</b> , 397-442	O
27	Biomonitoring of Airborne Microplastic Deposition in Semi-Natural and Rural Sites Using the Moss Hypnum cupressiforme. <b>2023</b> , 12, 977	O
26	Conversion of Marine Plastic Litter into Chemicals and Fuels through Catalytic Pyrolysis Using Commercial and Coal Fly Ash-Synthesized Zeolites. <b>2023</b> , 11, 3644-3656	O
25	Plastic waste in surface waters of an urban estuary. <b>2023</b> , 74, 500-510	O
24	Microplastics Contamination in Nonalcoholic Beverages from the Italian Market. <b>2023</b> , 20, 4122	O
23	Aerosols as Vectors for Contaminants: A Perspective Based on Outdoor Aerosol Data from Kuwait. <b>2023</b> , 14, 470	1
22	Recent trends on microplastics abundance and risk assessment in coastal Antarctica: Regional meta-analysis. <b>2023</b> , 324, 121385	O
21	Photoaging of polystyrene microspheres causes oxidative alterations to surface physicochemistry and enhances airway epithelial toxicity.	O
20	Characterization of Large Microplastic Debris in Beach Sediments in the Po Delta Area. <b>2023</b> , 2, 147-157	O
19	Micro and Nanoplastics in Agricultural Soils: Challenges and Future Directions. 2023, 413-427	O
18	Microplastics in water systems: A review of their impacts on the environment and their potential hazards. <b>2023</b> , 9, e14359	O

17	Seasonal effects, spatial distribution, and possible sources of microplastics in the Chao Phraya River estuary, Thailand. <b>2023</b> , 58, 256-266	0
16	The dynamics of macro- and microplastic quantity and size changes during the composting process. <b>2023</b> , 162, 18-26	O
15	High abundances of microplastics in a tropical urban stream, negatively related to precipitation	O
14	Formation of environmentally persistent free radicals on microplastics under UV irradiations. <b>2023</b> , 453, 131277	O
13	Mechanical and Thermal Properties of HDPE/PET Microplastics, Applications, and Impact on Environment and Life.	О
12	Microplastic sources, formation, toxicity and remediation: a review.	Ο
11	A review on lignin based nanocomposites: Fabrication, characterization and application. 2023,	0
10	Isolation and Characterization of Brucella spp., Low-Density Polyethylene (LDPE) Plastic Degrading Bacteria in Al-Ahsa Region, Saudi Arabia. <b>2023</b> , 13, 4629	Ο
9	Microplastics and human health: Integrating pharmacokinetics. 1-23	0
8	Size-Controlled Preparation of Polyethylene Nanoplastic Particles by Nanoprecipitation and Insights into the Underlying Mechanisms.	0
7	Microplastic ingestion affects hydrogen production and microbiomes in the gut of the terrestrial isopod Porcellio scaber .	О
6	Cellular and Systemic Effects of Micro- and Nanoplastics in Mammals What We Know So Far. <b>2023</b> , 16, 3123	O
5	Feasibility Study for the Development of a Low-Cost, Compact, and Fast Sensor for the Detection and Classification of Microplastics in the Marine Environment. <b>2023</b> , 23, 4097	0
4	Macroplastics in the Bottom of the Veracruz Reef System National Park. <b>2023</b> , 15, 6934	O
3	New insights into the migration, distribution and accumulation of micro-plastic in marine environment: A critical mechanism review. <b>2023</b> , 138572	О
2	Healthy aquatic ecosystem, towards sustainable food supply. <b>2023</b> , 275-298	O
1	Presence of microplastic in target species of small scale fisheries and possible social implications on the local communities.	O