

Degradation Rates of Plastics in the Environment

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Polyethylene upcycling to long-chain alkylaromatics by tandem hydrogenolysis/aromatization. <i>Science</i> , 2020, 370, 437-441.	6.0	378
2	Spatial patterns of mesoplastics and coarse microplastics in floodplain soils as resulting from land use and fluvial processes. <i>Environmental Pollution</i> , 2020, 267, 115390.	3.7	92
3	Characterization of microplastics in the surface waters of an urban lagoon (Bizerte lagoon,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 667 T factors. <i>Marine Pollution Bulletin</i> , 2020, 160, 111625.	2.3	44
4	Degradation Rates of Plastics in the Environment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3494-3511.	3.2	1,463
5	Polyethylene terephthalate degradation under natural and accelerated weathering conditions. <i>European Polymer Journal</i> , 2020, 136, 109873.	2.6	120
6	Environmental Impact of Food Packaging Materials: A Review of Contemporary Development from Conventional Plastics to Polylactic Acid Based Materials. <i>Materials</i> , 2020, 13, 4994.	1.3	252
7	Research progress for plastic waste management and manufacture of value-added products. <i>Advanced Composites and Hybrid Materials</i> , 2020, 3, 443-461.	9.9	104
8	Understanding fluorometric interactions in ion-responsive sustainable polymer nanocomposite scaffolds. <i>Soft Matter</i> , 2020, 16, 8667-8676.	1.2	2
9	Recent advancements of plant-based natural fiberâ€™ reinforced composites and their applications. <i>Composites Part B: Engineering</i> , 2020, 200, 108254.	5.9	323
10	Combined effect of plastic litter and increased atmospheric nitrogen deposition on vegetative propagules of dune plants: A further threat to coastal ecosystems. <i>Environmental Pollution</i> , 2020, 266, 115281.	3.7	18
11	Environmental Sustainability of Plastic in Agriculture. <i>Agriculture (Switzerland)</i> , 2020, 10, 310.	1.4	22
12	In pursuit of environmentally friendly straws: a comparative life cycle assessment of five straw material options in South Africa. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 1818-1832.	2.2	34
13	Enhanced Photodegradation Stability in Poly(butylene adipate-co-terephthalate) Composites Using Organically Modified Layered Zinc Phenylphosphonate. <i>Polymers</i> , 2020, 12, 1968.	2.0	7
14	Life cycle impact assessment of microplastics as one component of marine plastic debris. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 2008-2026.	2.2	37
15	Systematic Analysis of the Relative Abundance of Polymers Occurring as Microplastics in Freshwaters and Estuaries. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 9304.	1.2	34
16	A Deep Neural Network for Accurate and Robust Prediction of the Glass Transition Temperature of Polyhydroxyalkanoate Homo- and Copolymers. <i>Materials</i> , 2020, 13, 5701.	1.3	12
17	Citizen Science and Environmental Protection Agencies: Engaging Citizens to Address Key Environmental Challenges. <i>Frontiers in Climate</i> , 2020, 2, .	1.3	10
18	UV-induced aggregation of polystyrene nanoplastics: effects of radicals, surface functional groups and electrolyte. <i>Environmental Science: Nano</i> , 2020, 7, 3914-3926.	2.2	57

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19	Particle and volatile organic compound emissions from a 3D printer filament extruder. <i>Science of the Total Environment</i> , 2020, 736, 139604.	3.9	30
20	Identification and characterization of single use oxo/biodegradable plastics from Mexico City, Mexico: Is the advertised labeling useful?. <i>Science of the Total Environment</i> , 2020, 739, 140358.	3.9	6
21	The highly-stable immobilization of enzymes on a waste mycelium carrier. <i>Journal of Environmental Management</i> , 2020, 271, 111032.	3.8	11
22	Microplastic and heavy metal distributions in an Indian coral reef ecosystem. <i>Science of the Total Environment</i> , 2020, 744, 140706.	3.9	90
23	Microbial remediation of micro-nano plastics: Current knowledge and future trends. <i>Environmental Pollution</i> , 2020, 265, 115044.	3.7	109
24	Densification of Biomass and Waste Plastic Blends as a Solid Fuel: Hazards, Advantages, and Perspectives. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	23
25	Investigating microplastic dynamics in soils: Orientation for sampling strategies and sample pre-processing. <i>Land Degradation and Development</i> , 2021, 32, 270-284.	1.8	26
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38	Microplastics in marine environment: a review on sources, classification, and potential remediation by membrane technology. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 243-258.	1.2	65
39	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
40	A probabilistic risk assessment of microplastics in soil ecosystems. <i>Science of the Total Environment</i> , 2021, 757, 143987.	3.9	69
41	Glycolysis of Poly(Ethylene Terephthalate) Using Biomass-Waste Derived Recyclable Heterogeneous Catalyst. <i>Polymers</i> , 2021, 13, 37.	2.0	39
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43	The effect of plastic additives on <i>Shewanella oneidensis</i> growth and function. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 956-966.	1.7	2
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65	Enzyme discovery and engineering for sustainable plastic recycling. <i>Trends in Biotechnology</i> , 2022, 40, 22-37.	4.9	136
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74	Confronting plastic pollution to protect environmental and public health. <i>PLoS Biology</i> , 2021, 19, e3001131.	2.6	10
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