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## The mechanism of biodegradation of polyethylene

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448	Synthetic polymers and the living environment. <b>1980</b> , 52, 399-407		68
447	Biodegradation of polyethylene and the influence of surfactants. <i>Polymer Degradation and Stability</i> , <b>1988</b> , 21, 237-250	4.7	56
446	Biodegradation. <b>1989</b> , 597-606		21
445	Biodegradable Polymers. <b>1989</b> , 285-297		1
444	Biodegradation of polyethylene foils by bacterial and liver homogenates. <b>1990</b> , 11, 36-40		33
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442	A Review on Biodegradable Plastics. <b>1990</b> , 29, 235-262		98
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259	Thermogravimetric and Morphologic Analysis of Oxo-degradable Polyethylene Films after Accelerated Weathering. <b>2013</b> , 29, 39-54		8
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257	Creep and Recovery Behavior of Compression Molded Low Density Polyethylene/Cellulose Composites. <b>2013</b> , 2013, 1-6		5
256	Understanding and Control of High Temperature Oxidation Flaws of Low-Density Poly(ethylene) with Raman Spectroscopy. <b>2014</b> , 2014, 1-9		2
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252	Biopolymer and biosurfactant-graft-calcium sulfate/polystyrene nanocomposites: Thermophysical, mechanical and biodegradation studies. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 107, 37-52	4-7	13

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250	Comparative oxo-biodegradation study of poly-3-hydroxybutyrate-co-3-hydroxyvalerate/polypropylene blend in controlled environments. <b>2014</b> , 87, 1-8		33
249	Evidence of polyethylene biodegradation by bacterial strains from the guts of plastic-eating waxworms. <b>2014</b> , 48, 13776-84		373
248	Colonization and Biodegradation of Photo-Oxidized Low-Density Polyethylene (LDPE) by New Strains of <i>Aspergillus</i> sp. and <i>Lysinibacillus</i> sp.. <b>2014</b> , 18, 213-226		10
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243	Investigation of biofilm formation on polyethylene in a diesel/biodiesel fuel storage environment. <b>2014</b> , 128, 240-247		12
242	Avaliaçã de sistemas prãdegradantes na degradaçã termooxidativa do PEAD. <b>2015</b> , 25, 68-76		2
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240	Degradation of polyethylene by <i>Penicillium simplicissimum</i> isolated from local dumpsite of Shivamogga district. <b>2015</b> , 17, 731-745		40
239	Biodegradation of HDPE by <i>Aspergillus</i> spp. from marine ecosystem of Gulf of Mannar, India. <i>Marine Pollution Bulletin</i> , <b>2015</b> , 96, 32-40	6.7	78
238	Degradable polyethylene nanocomposites with silica, silicate and thermally reduced graphene using oxo-degradable pro-oxidant. <b>2015</b> , 1, e00050		10
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234	Biodegradation of Gum tragacanth acrylic acid based hydrogel and its impact on soil fertility. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 115, 24-31	4.7	42

233	Enhancing Degradation of Low Density Polyethylene Films by <i>Curvularia lunata</i> SG1 Using Particle Swarm Optimization Strategy. <b>2015</b> , 55, 258-68		7
232	Biodegradation of Linear Low Density Polyethylene by <i>Serratia marcescens</i> subsp. <i>marcescens</i> and its Cell Free Extracts. <b>2015</b> , 6, 1047-1057		12
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218	Biodegradation of low density polyethylene (LDPE) modified with dye sensitized titania and starch blend using <i>Stenotrophomonas pavanii</i> . <b>2016</b> , 113, 276-286		49
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216	Microbial degradation of low-density polyethylene (LDPE) by <i>Aspergillus clavatus</i> strain JASK1 isolated from landfill soil. <b>2016</b> , 6, 52		85

215	Plastic mulching in agriculture. Trading short-term agronomic benefits for long-term soil degradation?. <b>2016</b> , 550, 690-705		590
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212	Bio-degradation of polyethylene waste by simultaneous use of two bacteria: <i>Bacillus licheniformis</i> for production of bio-surfactant and <i>Lysinibacillus fusiformis</i> for bio-degradation. <b>2016</b> , 6, 2982-2992		33
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200	Treatments and Uses. <b>2017</b> , 215-315		
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134	Biodegradation of Plastics in <i>Tenebrio</i> Genus (Mealworms). <b>2020</b> , 385-422	3
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132	Occurrence, Fate and Fluxes of Plastics and Microplastics in Terrestrial and Freshwater Ecosystems. <b>2020</b> , 250, 1-43	9
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129	UV Pretreatment Impairs the Enzymatic Degradation of Polyethylene Terephthalate. <b>2020</b> , 11, 689	21
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121	Role of pretreatment and evidence for the enhanced biodegradation and mineralization of low-density polyethylene films by greater waxworm. <b>2021</b> , 42, 717-730		10
120	Microbial Degradation of Marine Plastics: Current State and Future Prospects. <b>2021</b> , 111-154		2
119	Fruit Waste as Sustainable Resources for Polyhydroxyalkanoate (PHA) Production. <b>2021</b> , 205-229		1
118	Review on Plastic Waste Disposal and Role of Microorganisms in Bioremediation of Plastics. <b>2021</b> , 236-247		
117	Low density polyethylene degradation by filamentous fungi. <b>2021</b> , 274, 116548		10
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109	The impact of microplastic-microbe interactions on animal health and biogeochemical cycles: A mini-review. <b>2021</b> , 773, 145697		29
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104	Fungal bioremediation of polyethylene: Challenges and perspectives. <b>2021</b> ,		2
103	Not Only Diamonds Are Forever: Degradation of Plastic Films in a Simulated Marine Environment. <b>2021</b> , 9,		0
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98	Microplastics formation based on degradation characteristics of beached plastic bags. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 169, 112470	6.7	7
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96	Photocatalytic and biological technologies for elimination of microplastics in water: Current status. <b>2022</b> , 806, 150603		2
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94	Use and misuse of FTIR spectroscopy for studying the bio-oxidation of plastics. <b>2021</b> , 258, 119841		10
93	Insights on the bioremediation technologies for pesticide-contaminated soils. <b>2021</b> , 1		6
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90	Effects of microplastics on soil carbon dioxide emissions and the microbial functional genes involved in organic carbon decomposition in agricultural soil. <b>2022</b> , 806, 150714		4

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87	Microplastics as Pollutants in the Marine Environment. <b>2021</b> , 373-399		1
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85	Weathering and Biological Degradation of a Bioglycerol-Based Thermoset Material. <b>2021</b> , 29, 1852-1859		
84	Microbe Mediated Bioconversion of Fruit Waste Into Value Added Products. <b>2021</b> , 604-625		
83	Advancement on Biomass Classification, Analytical Methods for Characterization, and Its Economic Importance. <b>2021</b> , 249-272		
82	Photodegradation of low-density polyethylene with prooxidant and photocatalyst. <b>2020</b> , 137, 48979		4
81	Biomedical Applications of Polyolefins. <b>2016</b> , 247-264		1
80	Techniques and mechanisms of polymer degradation. <b>1995</b> , 29-42		3
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