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Plastics, the environment and human health: current consensus and future trends

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Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2153-66.

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#	Paper	IF	Citations
1670	The seashore. 591-614		1
1669	Human body burdens of chemicals used in plastic manufacture. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2063-78	5.8	397
1668	Phthalates and other additives in plastics: human exposure and associated health outcomes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2097-113	5.8	453
1667	Wildlife cancer and plastic pollution. <b>2009</b> , 9, 842-842		1
1666	Transport and release of chemicals from plastics to the environment and to wildlife. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2027-45	5.8	1529
1665	Our plastic age. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 1973-6	5.8	600
1664	Structuring policy problems for plastics, the environment and human health: reflections from the UK. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2141-51	5.8	23
1663	Accumulation and fragmentation of plastic debris in global environments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 1985-98	5.8	2839
1662	Applications and societal benefits of plastics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 1977-84	5.8	842
1661	Monitoring the abundance of plastic debris in the marine environment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 1999-2012	5.8	787
1660	Biodegradable and compostable alternatives to conventional plastics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2127-39	5.8	450
1659	Environmental implications of plastic debris in marine settings--entanglement, ingestion, smothering, hangers-on, hitch-hiking and alien invasions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2013-25	5.8	1033
1658	A critical analysis of the biological impacts of plasticizers on wildlife. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2047-62	5.8	503
1657	Plastics recycling: challenges and opportunities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2115-26	5.8	1244
1656	Macroplastics at sea around Antarctica. <b>2010</b> , 70, 250-2		152
1655	Are marine plastic particles transport vectors for organic pollutants to the Arctic?. <b>2010</b> , 60, 1810-4		229
1654	Degradation of plastic carrier bags in the marine environment. <b>2010</b> , 60, 2279-83		248

1653	Biodegradability Study on Cotton and Polyester Fabrics. <b>2010</b> , 5, 155892501000500	32
1652	Solid Waste and Water Quality Management Models for Sagarmatha National Park and Buffer Zone, Nepal. <b>2010</b> , 30, 127-142	42
1651	Disposal of composite boats and other marine composites. <b>2010</b> , 495-519	1
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1649	Accumulation of microplastic on shorelines worldwide: sources and sinks. <b>2011</b> , 45, 9175-9	2233
1648	Rubber Band Ingestion by a Rubbish Dump Dweller, the White Stork ( <i>Ciconia ciconia</i> ). <b>2011</b> , 34, 504-508	27
1647	Conversion of Biomass into Bioplastics and Their Potential Environmental Impacts. <b>2011</b> ,	11
1646	Associations between urinary metabolites of di(2-ethylhexyl) phthalate and reproductive hormones in fertile men. <b>2011</b> , 34, 369-78	58
1645	Innovative composite films of chitosan, methylcellulose, and nanoparticles. <b>2011</b> , 76, N54-60	15
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1643	Marine debris ingestion by Magellanic penguins, <i>Spheniscus magellanicus</i> (Aves: Sphenisciformes), from the Brazilian coastal zone. <b>2011</b> , 62, 2246-9	69
1642	Microplastics as contaminants in the marine environment: a review. <b>2011</b> , 62, 2588-97	2650
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1626	Anthropogenic "Litter" and macrophyte detritus in the deep Northern Gulf of Mexico. <b>2012</b> , 64, 966-73	38
1625	Plastic ingestion by the northern fulmar ( <i>Fulmarus glacialis</i> ) in Iceland. <b>2012</b> , 64, 1252-4	66
1624	Effects of reprocessing of oxobiodegradable and non-degradable polyethylene on the durability of recycled materials. <b>2012</b> , 97, 316-321	25
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1614	Relationships among the abundances of plastic debris in different size classes on beaches in South Korea. <b>2013</b> , 77, 349-54	234
1613	Plasticizer contamination in edible vegetable oil in a U.S. retail market. <b>2013</b> , 61, 9502-9	35
1612	Identification of polymer types and additives in marine microplastic particles using pyrolysis-GC/MS and scanning electron microscopy. <b>2013</b> , 15, 1949-56	402
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1610	Long-term field measurement of sorption of organic contaminants to five types of plastic pellets: implications for plastic marine debris. <b>2013</b> , 47, 1646-54	171
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1579	Exogenous floating marine debris: Filling search and detection gaps using remote sensing. <b>2014</b> ,	0
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1557	Does size and buoyancy affect the long-distance transport of floating debris?. <b>2015</b> , 10, 084019	128
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1554	Flavonoids as Natural Stabilizers and Color Indicators of Ageing for Polymeric Materials. <b>2015</b> , 7, 1125-1144	30
1553	Protected Shores Contaminated with Plastic. <b>2015</b> , 185-195	
1552	Beach debris in the Azores (NE Atlantic): Faial Island as a first case study. <b>2015</b> , 101, 575-82	28
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1550	Environmental quality assessment of Grand Harbour (Valletta, Maltese Islands): a case study of a busy harbour in the Central Mediterranean Sea. <b>2015</b> , 187, 747	41
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1548	Microplastics in freshwater systems: a review of the emerging threats, identification of knowledge gaps and prioritisation of research needs. <b>2015</b> , 75, 63-82	1250
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1544	Debris ingestion by juvenile marine turtles: an underestimated problem. <b>2015</b> , 93, 37-43	96
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1542	Single and combined effects of microplastics and copper on the population growth of the marine microalgae <i>Tetraselmis chuii</i> . <b>2015</b> , 167, 269-275	133
1541	Bacterial Community Profiling of Plastic Litter in the Belgian Part of the North Sea. <b>2015</b> , 49, 9629-38	205
1540	In situ synthesis of mesoporous manganese oxide/sulfur-doped graphitized carbon as a bifunctional catalyst for oxygen evolution/reduction reactions. <b>2015</b> , 94, 1028-1036	62
1539	Characterisation, quantity and sorptive properties of microplastics extracted from cosmetics. <b>2015</b> , 99, 178-85	413
1538	Bimonthly variability of persistent organochlorines in plastic pellets from four beaches in Mumbai coast, India. <b>2015</b> , 187, 469	20
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1536	Microplastics in the Marine Environment: Distribution, Interactions and Effects. <b>2015</b> , 245-307	149
1535	Microplastics in the Marine Environment: Sources, Consequences and Solutions. <b>2015</b> , 185-200	101
1534	Monitoring of bisphenols in canned tuna from Italian markets. <b>2015</b> , 83, 68-75	50
1533	The Economics of Marine Litter. <b>2015</b> , 367-394	51
1532	Regulation and Management of Marine Litter. <b>2015</b> , 395-428	41
1531	Marine Anthropogenic Litter. <b>2015</b> ,	214
1530	New link in the food chain? Marine plastic pollution and seafood safety. <b>2015</b> , 123, A34-41	168
1529	Biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by <i>Halogeometricum borinquense</i> strain E3. <b>2015</b> , 78, 339-46	33
1528	Assessing estrogenic activity and reproductive toxicity of organic extracts in WWTP effluents. <b>2015</b> , 39, 942-52	6

1527	Biosynthesis of planet friendly bioplastics using renewable carbon source. <b>2015</b> , 13, 11	41
1526	Accumulation of floating microplastics behind the Three Gorges Dam. <b>2015</b> , 204, 117-23	263
1525	Deep-sea litter: a comparison of seamounts, banks and a ridge in the Atlantic and Indian Oceans reveals both environmental and anthropogenic factors impact accumulation and composition. <b>2015</b> , 2, 2,	60
1524	Sampling of riverine litter with citizen scientists--findings and recommendations. <b>2015</b> , 187, 335	68
1523	Impacts of discarded plastic bags on marine assemblages and ecosystem functioning. <b>2015</b> , 49, 5380-9	90
1522	Optimizing the nutrient feeding strategy for PHA production by a novel strain of <i>Enterobacter</i> sp.. <b>2015</b> , 12, 2757-2764	7
1521	Contamination and risk of heavy metals in soils and sediments from a typical plastic waste recycling area in North China. <b>2015</b> , 122, 343-51	97
1520	Xenobiotic-contaminated diets affect hepatic lipid metabolism: Implications for liver steatosis in <i>Sparus aurata</i> juveniles. <b>2015</b> , 167, 257-64	53
1519	Benthic plastic debris in marine and fresh water environments. <b>2015</b> , 17, 1363-9	85
1518	Screening for microplastic particles in plankton samples: How to integrate marine litter assessment into existing monitoring programs?. <b>2015</b> , 99, 271-5	60
1517	Nano-plastics in the aquatic environment. <b>2015</b> , 17, 1712-21	263
1516	Removing chiral contamination of lactate solutions by selective metabolism of the D-enantiomer. <b>2015</b> , 37, 2411-8	3
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1514	Improving the performances of polyethylene/sisal fiber composites by infiltratively compatibilizing the multi-scale interfaces. <b>2015</b> , 22, 489-502	4
1513	Comparison, association, and risk assessment of phthalates in floor dust at different indoor environments in Delaware, USA. <b>2015</b> , 50, 1428-39	23
1512	Marine microplastic-associated biofilms: A review. <b>2015</b> , 12, 551	232
1511	Ecological Approaches to Coastal Risk Mitigation. <b>2015</b> , 171-236	2
1510	Marine litter education boosts children's understanding and self-reported actions. <b>2015</b> , 90, 209-17	118

1509	Characterization and biodegradation behavior of bio-based poly(lactic acid) and soy protein blends for sustainable horticultural applications. <b>2015</b> , 17, 380-393	77
1508	Plastic pollution of the Kuril-Kamchatka Trench area (NW Pacific). <b>2015</b> , 111, 399-405	135
1507	First record of <i>Pinctada imbricata</i> Röding, 1798 (Bivalvia: Pterioidea) attached to a rafting item: a potentially invasive species on the Uruguayan coast. <b>2015</b> , 45, 333-337	6
1506	Transform Rice Husk and Recycled Polyethylene into High Performance Composites: Using a Novel Compatibilizer to Infiltratively Enhance the Interfacial Interactions. <b>2016</b> , 32, 253-268	3
1505	Microplastics in Aquatic Environments and Their Toxicological Implications for Fish. <b>2016</b> ,	10
1504	Oxidized Polyethylene Wax as a Potential Carbon Source for PHA Production. <b>2016</b> , 9,	28
1503	Modeling marine surface microplastic transport to assess optimal removal locations. <b>2016</b> , 11, 014006	80
1502	Marine debris occurrence and treatment: A review. <b>2016</b> , 64, 394-402	72
1501	Effects of Recycling on the Mechanical Behavior of Polypropylene at Room Temperature Through Statistical Analysis Method. <b>2016</b> , 56, 1283-1290	8
1500	How to Increase Plastic Waste Acceptance for Mechanical Recycling: An Introduction to Material Value Conservation and its Phenomenon. <b>2016</b> , 705, 362-367	14
1499	Technofossils of the Anthropocene. <b>2016</b> , 12, 355-375	14
1498	Polyethylene/Polyhydroxyalkanoates-based Biocomposites and Bionanocomposites. <b>2016</b> , 201-278	1
1497	Fate of microplastics and other small anthropogenic litter (SAL) in wastewater treatment plants depends on unit processes employed. <b>2016</b> , 2, 1064-1073	144
1496	Global modelling of surface water quality: a multi-pollutant approach. <b>2016</b> , 23, 35-45	38
1495	Plastic ingestion by fish in the Southern Hemisphere: A baseline study and review of methods. <b>2016</b> , 107, 286-291	84
1494	Kinetics and mechanism of monomeric product from methanolysis of poly (3-hydroxybutyrate) catalyzed by acidic functionalized ionic liquids. <b>2016</b> , 130, 22-29	10
1493	Microwave in Environmental Technologies and Synthesis of Nano-materials: The Georgian Experience. <b>2016</b> , 91-150	
1492	The preliminary assessment of abundance and composition of marine beach debris in the northern Persian Gulf, Bandar Abbas City, Iran. <b>2016</b> , 96, 131-135	45

1491	Artificial breakwaters as garbage bins: Structural complexity enhances anthropogenic litter accumulation in marine intertidal habitats. <b>2016</b> , 214, 737-747	38
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1489	Brominated flame retardant emissions from the open burning of five plastic wastes and implications for environmental exposure in China. <b>2016</b> , 214, 70-76	41
1488	Human health impacts from litter on beaches and associated perceptions: A case study of "clean" Tasmanian beaches. <b>2016</b> , 126, 22-30	42
1487	Pigments and plastic in limnetic ecosystems: A qualitative and quantitative study on microparticles of different size classes. <b>2016</b> , 98, 64-74	249
1486	Biochemical and Structural Insights into Enzymatic Depolymerization of Polylactic Acid and Other Polyesters by Microbial Carboxylesterases. <b>2016</b> , 17, 2027-39	68
1485	Plastic ingestion by a generalist seabird on the coast of Uruguay. <b>2016</b> , 107, 71-76	27
1484	Occurrence and distribution of organophosphorus esters in soils and wheat plants in a plastic waste treatment area in China. <b>2016</b> , 214, 349-353	74
1483	Trends in Wildlife Research: A Bibliometric Approach. <b>2016</b> , 1-28	
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1480	Improvement of the Geotechnical Properties of Sandy Soil Using Shredded Polyethylene Terephthalate (PET) Wastes. <b>2016</b> ,	
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1477	Leachate from microplastics impairs larval development in brown mussels. <b>2016</b> , 106, 364-370	165
1476	Sources, Distribution, and Fate of Microscopic Plastics in Marine Environments. <b>2016</b> , 121-133	11
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1473	An Overview of Advanced Hyphenated Techniques for Simultaneous Analysis and Characterization of Polymeric Materials. <b>2016</b> , 41, 482-530	13
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1063	Molten salt conversion of polyethylene terephthalate waste into graphene nanostructures with high surface area and ultra-high electrical conductivity. <b>2019</b> , 476, 539-551	27
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628	Experimental and mathematical modeling approaches for biocatalytic post-consumer poly(ethylene terephthalate) hydrolysis. <b>2021</b> , 341, 76-85	3

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626	Quantifying the release of tyre wear particles to the marine environment via multiple pathways. <b>2021</b> , 172, 112897	4
625	Macroplastic accumulation in roadside ditches of New York State's Finger Lakes region (USA) across land uses and the COVID-19 pandemic. <b>2021</b> , 298, 113524	3
624	Generation of nanoplastics during the photoageing of low-density polyethylene. <b>2021</b> , 289, 117919	5
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621	Personal and structural factors that influence individual plastic packaging consumption Results from focus group discussions with German consumers. <b>2021</b> , 3, 100022	5
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612	Microplastics influence on Hg methylation in diverse paddy soils. <b>2022</b> , 423, 126895	3
611	Size-dependent adsorption of waterborne Benzophenone-3 on microplastics and its desorption under simulated gastrointestinal conditions. <b>2022</b> , 286, 131735	6
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609	Microplastics as Pollutants in the Marine Environment. <b>2021</b> , 373-399	1
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602	Marine microplastics as vectors of major ocean pollutants and its hazards to the marine ecosystem and humans. <b>2021</b> , 8,	58
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591	Comparison between pea and soy protein-based bioplastics obtained by injection molding. <b>2021</b> , 138, 50412	6
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584	Environmental status of (micro)plastics contamination in Portugal. <b>2020</b> , 200, 110753	13
583	The sea anemone <i>Bunodosoma cangicum</i> as a potential biomonitor for microplastics contamination on the Brazilian Amazon coast. <b>2020</b> , 265, 114817	23
582	Characterization of plastic micro particles in the Atlantic Ocean seashore of Cape Town, South Africa and mass spectrometry analysis of pyrolyzate products. <b>2020</b> , 265, 114859	14
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580	First evidence of microplastics in nine lakes across Patagonia (South America). <b>2020</b> , 733, 139385	37
579	Challenges of plastic waste generation and management in sub-Saharan Africa: A review. <b>2020</b> , 110, 24-42	41
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