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Plastics recycling: challenges and opportunities

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1499	Our plastic age. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 1973-6	5.8	600
1498	Plastics, the environment and human health: current consensus and future trends. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 2153-66	5.8	1384
1497	Applications and societal benefits of plastics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 1977-84	5.8	842
1496	Biodegradable and compostable alternatives to conventional plastics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 2127-39	5.8	450
1495	Bacterial polymers: biosynthesis, modifications and applications. 2010 , 8, 578-92		556
1494	Use of hyperspectral imaging for evaluation of the shelf-life of fresh white button mushrooms (<i>Agaricus bisporus</i>) stored in different packaging films. 2010 , 11, 423-431		61
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1492	A thermodynamic approach for assessing the environmental exposure of chemicals absorbed to microplastic. 2011 , 45, 1466-72		285
1491	Plastic: matching material with usage. 2011 , 9, 151-152		1
1490	Plastic marine debris on the Portuguese coastline: a matter of size?. 2011 , 62, 2649-53		199
1489	The selective recycling of mixed plastic waste of polylactic acid and polyethylene terephthalate by control of process conditions. 2011 , 47, 1970-1976		84
1488	Recent Developments in the Chemical Recycling of PET. 2012 ,		33
1487	Human Risk Assessment of Endocrine-Disrupting Chemicals Derived from Plastic Food Containers. 2012 , 11, 453-470		67
1486	Microplastics in the marine environment: a review of the methods used for identification and quantification. 2012 , 46, 3060-75		2218
1485	Materials and Methods for the Chemical Catalytic Cracking of Plastic Waste. 2012 ,		2
1484	Migrating components in a polyurethane laminating adhesive identified using gas chromatography/mass spectrometry. 2012 , 26, 1810-6		18
1483	Low-temperature iron-catalyzed depolymerization of polyethers. 2012 , 5, 1195-8		23

1482	Deterioration of bioplastic carrier bags in the environment and assessment of a new recycling alternative. 2012 , 89, 136-43	87
1481	Open-loop recycling to apply refrigerator plastics from post-consumer waste polypropylene. 2012 , 35, 310-317	7
1480	Identification by thermal analysis for open-loop recycling of post-consumer waste polypropylene to apply refrigerator plastics. 2012 , 36, 359-365	5
1479	Development of flame retarded self-reinforced composites from automotive shredder plastic waste. 2012 , 97, 221-227	22
1478	The influence of biotic and abiotic factors on the rate of degradation of poly(lactic) acid (PLA) coupons buried in compost and soil. 2013 , 98, 2063-2071	109
1477	Bioinspired Chitinous Material Solutions for Environmental Sustainability and Medicine. 2013 , 23, 4454-4466	43
1476	Volumes and issues. 2013 , 4, 34	89
1475	Preparation, Characterization and Hot Storage Stability of Asphalt Modified by Waste Polyethylene Packaging. 2013 , 29, 434-438	27
1474	Analysis and Thermo-Mechanical Characterization of Mixed Plastic Wastes. 2013 , 52, 16-23	10
1473	Influence of the temperature and strain rate on the tensile behavior of post-consumer recycled high-density polyethylene. 2013 , 32, 1576-1581	17
1472	Transdisciplinary Research in Sustainable Operations [An Application to Closed-Loop Supply Chains. 2013 , 22, 245-268	34
1471	Biodegradability of conventional and bio-based plastics and natural fiber composites during composting, anaerobic digestion and long-term soil incubation. 2013 , 98, 2583-2591	141
1470	Contribution of cooperative sector recycling to greenhouse gas emissions reduction: a case study of Ribeirõ Pires, Brazil. 2013 , 33, 2771-80	34
1469	Polymer film packaging for food: An environmental assessment. 2013 , 78, 74-80	101
1468	Life cycle assessments of biodegradable, commercial biopolymers[A critical review. 2013 , 78, 54-66	244
1467	Relationships among the abundances of plastic debris in different size classes on beaches in South Korea. 2013 , 77, 349-54	234
1466	Performance evaluation and chemical recyclability of a polyethylene/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) blend for sustainable packaging. 2013 , 3, 24378	36
1465	Rapid and simple colorimetric assay for detecting the enzymatic degradation of biodegradable plastic films. 2013 , 115, 111-4	13

1464	Diamond-like carbon coating of a pure bioplastic foil. 2013 , 545, 558-563	23
1463	The effectiveness of recycling policy options: waste diversion or just diversions?. 2013 , 33, 508-18	50
1462	Triboelectrostatic separation for granular plastic waste recycling: a review. 2013 , 33, 585-97	126
1461	Plastic Packaging: Not a Throw-away Resource. 2013 , 83-109	1
1460	Molecular structural changes of plasticized PVC after UV light exposure. 2013 , 117, 16336-44	25
1459	Plastics and environmental health: the road ahead. 2013 , 28, 1-8	221
1458	Uterotrophic and Hershberger assays for endocrine disruption properties of plastic food contact materials polypropylene (PP) and polyethylene terephthalate (PET). 2013 , 76, 624-34	8
1457	Application of fatty acid chlorides in the iron-catalyzed depolymerization of polyethers. 2013 , 115, 239-245	12
1456	Methods for Separation, Recycling and Reuse of Biodegradation Products. 2013 ,	1
1455	Barrier properties to surrogates of hydrogenated carbon nano-films deposited on PET by plasma-enhanced chemical vapour deposition. 2014 , 31, 1914-27	2
1454	A Sustainable Polymer Composite from Recycled Polypropylene Filled with Shrimp Shell Waste. 2014 , 53, 167-172	10
1453	DLC-coated pure bioplastic foil. 2014 , 26, 42-47	13
1452	Methanolysis of poly(lactic acid) using acidic functionalized ionic liquids as catalysts. 2014 , 131, n/a-n/a	15
1451	FT-IR spectroscopy and Hyperspectral Imaging applied to post-consumer plastic packaging characterization and sorting. 2014 ,	1
1450	Assessment of UV exposure and aerobic biodegradation of poly(butylene adipate-co-terephthalate)/starch blend films coated with radiation-curable print inks containing degradation-promoting additives. 2014 , 60, 326-334	13
1449	Recent advances in microbial biopolymer production and purification. 2014 , 34, 1-15	50
1448	Zinc-Catalyzed Depolymerization of End-of-Life Polysiloxanes. 2014 , 126, 2754-2759	9
1447	Co-gasification of biomass and plastics: pyrolysis kinetics studies, experiments on 100 kW dual fluidized bed pilot plant and development of thermodynamic equilibrium model and balances. 2014 , 162, 21-9	61

1446	Zinc-Catalyzed Depolymerization of Polyethers to Produce Valuable Building Blocks. 2014 , 144, 850-859	9
1445	Upcycling waste plastics into carbon nanomaterials: A review. 2014 , 131, n/a-n/a	129
1444	Biopolymers Synthesis and Application. 2014 , 415-443	4
1443	Comparison between solid phase microextraction (SPME) and hollow fiber liquid phase microextraction (HFLPME) for determination of extractables from post-consumer recycled PET into food simulants. 2014 , 127, 59-67	13
1442	Evaluating UV/H ₂ O ₂ exposure as a DEHP degradation treatment for plasticized PVC. 2014 , 131, n/a-n/a	8
1441	Zinc-catalyzed depolymerization of end-of-life polysiloxanes. 2014 , 53, 2716-21	32
1440	Low-temperature depolymerization of polysiloxanes with iron catalysis. 2014 , 7, 2030-6	17
1439	Bio-based films prepared with by-products and wastes: environmental assessment. 2014 , 64, 218-227	80
1438	Renewable terephthalate polyesters from carbohydrate-based bicyclic monomers. 2014 , 16, 1716-1739	91
1437	Ingestion of microplastic has limited impact on a marine larva. 2014 , 48, 1638-45	243
1436	Polymers's surface interactions with molten iron: A theoretical study. 2014 , 443, 107-111	6
1435	Temperature and variable strain rate sensitivity in recycled HDPE. 2014 , 39, 30-35	7
1434	Poly (ethylene terephthalate) recycling for high value added textiles. 2014 , 1,	142
1433	Recycling plastics from automotive shredder residues: a review. 2014 , 16, 398-414	46
1432	Microplastic fibers in the intertidal ecosystem surrounding Halifax Harbor, Nova Scotia. 2014 , 81, 69-79	533
1431	Recycling of polymers: a review. 2014 , 7, 1579-93	264
1430	Microplastic pollution in the Northeast Atlantic Ocean: validated and opportunistic sampling. 2014 , 88, 325-33	388
1429	Identification and assessment of product's measures to improve resource efficiency: the case-study of an Energy using Product. 2014 , 83, 126-141	62

1428	Synthesis of branched, nano channeled, ultrafine and nano carbon tubes from PET wastes using the arc discharge method. 2014 , 34, 2139-45	38
1427	Properties and printability of compression moulded recycled polyethylene. 2014 , 55, 583-590	6
1426	Life cycle assessment of Colombian greenhouse tomato production based on farmer-level survey data. 2014 , 69, 26-33	55
1425	Material Recycling of Polymer Materials and Material Properties of the Recycled Materials. 2014 , 87, 441-446	1
1424	Recycling glass-fibre-reinforced plastics in the automotive sector. 2014 , 167, 169-177	2
1423	Recyclable and Bio-Based Materials Open Up New Prospects for Polymers: Scientific and Social Aspects. 2014 , 257-271	0
1422	Comparative in situ PET biodegradation assay using indigenously developed consortia. 2014 , 13, 348	1
1421	The Effect of Laser Power, Traverse Velocity and Spot Size on the Peel Resistance of a Polypropylene/Adhesive Bond. 2015 , 28, 621-632	4
1420	Standardization of Solid Recovered Fuels through Gravity Separation and Chemical Based Imaging Techniques. 2015 , 82, 328-334	
1419	Modification and extrusion coating of polylactic acid films. 2015 , 132, n/a-n/a	10
1418	Spectroscopic and Microscopic Investigations of Degradation Processes in Polymer Surface-Near Regions During the Deposition of SiO _x Films. 2015 , 12, 1002-1009	16
1417	Depolymerization protocol for linear, branched, and crosslinked end-of-life silicones with boron trifluoride diethyl etherate as the depolymerization reagent. 2015 , 132, n/a-n/a	8
1416	Material Recycling of Polymer Materials & Material Properties of the Recycled Materials. 2015 , 42, 9-14	5
1415	Room temperature organocatalyzed reductive depolymerization of waste polyethers, polyesters, and polycarbonates. 2015 , 8, 980-4	55
1414	Recycling Concept for End-of-Life Silicones: Boron Trifluoride Diethyl Etherate as Depolymerization Reagent to Produce Difluorodimethylsilane as Useful Commodity. 2015 , 3, 163-169	14
1413	Evidence of waste electrical and electronic equipment (WEEE) relevant substances in polymeric food-contact articles sold on the European market. 2015 , 32, 410-26	14
1412	Plastic debris in the Laurentian Great Lakes: A review. 2015 , 41, 9-19	210
1411	Zinc-Catalyzed Depolymerization Reactions. 2015 , 207-218	

1410	The effect of carboxylated nanocrystalline cellulose on the mechanical, thermal and barrier properties of cysteine cross-linked gliadin nanocomposite. 2015 , 22, 1175-1188	9
1409	Debris ingestion by juvenile marine turtles: an underestimated problem. 2015 , 93, 37-43	96
1408	Global styrene oligomers monitoring as new chemical contamination from polystyrene plastic marine pollution. 2015 , 300, 359-367	71
1407	Characterisation, quantity and sorptive properties of microplastics extracted from cosmetics. 2015 , 99, 178-85	413
1406	Characterisation and materials flow management for waste electrical and electronic equipment plastics from German dismantling centres. 2015 , 33, 775-84	13
1405	Potential Health Impact of Environmentally Released Micro- and Nanoplastics in the Human Food Production Chain: Experiences from Nanotoxicology. 2015 , 49, 8932-47	511
1404	Sustainable eco-composites obtained from agricultural and urban waste plastic blends and residual cellulose fibers. 2015 , 108, 377-384	38
1403	Trash to Treasure: Transforming Waste Polystyrene Cups into Negative Electrode Materials for Sodium Ion Batteries. 2015 , 3, 2153-2159	46
1402	Flotation separation of waste plastics for recycling-A review. 2015 , 41, 28-38	122
1401	Eco-dialysis: the financial and ecological costs of dialysis waste products: is a 'cradle-to-cradle' model feasible for planet-friendly haemodialysis waste management?. 2015 , 30, 1018-27	23
1400	Preparation and Properties of Biodegradable Spent Tea Leaf Powder/Poly(Propylene Carbonate) Composite Films. 2015 , 20, 377-387	46
1399	Introducing Students to Feedstock Recycling of End-of-Life Silicones via a Low-Temperature, Iron-Catalyzed Depolymerization Process. 2015 , 92, 703-707	8
1398	Hong Kong at the Pearl River Estuary: A hotspot of microplastic pollution. 2015 , 99, 112-8	214
1397	Contamination and risk of heavy metals in soils and sediments from a typical plastic waste recycling area in North China. 2015 , 122, 343-51	97
1396	A new efficient method for the processing of post-consumer polypropylene and other polyolefin wastes into polar waxes. 2015 , 46, 62-7	7
1395	Effect of binary mixture of waste plastics on the thermal behavior of pyrolysis process. 2015 , 34, 1113-1119	6
1394	Estimation of the Environmental Load of High- and Low-Density Polyethylene From South Korea Using a Mass Balance Approach. 2015 , 69, 367-73	7
1393	Multi-spectral infrared spectroscopy for robust plastic identification. 2015 , 54, 7396-405	22

1392	Automotive shredder residue (ASR) management: An overview. 2015 , 45, 143-51	72
1391	(Bio)degradation studies of degradable polymer composites with jute in different environments. 2015 , 16, 1362-1369	17
1390	Development of high-throughput chemiluminescence imaging instrument for parallel evaluation of polymer lifetime. 2015 , 121, 340-347	14
1389	Recent advances in nanoscale bioinspired materials. 2015 , 15, 300-11	34
1388	Processing and properties of a solid energy fuel from municipal solid waste (MSW) and recycled plastics. 2015 , 35, 283-92	45
1387	Iron-catalyzed depolymerization of polysiloxanes to produce dichlorodimethylsilane, diacetoxymethylsilane, or dimethoxydimethylsilane. 2015 , 132, n/a-n/a	11
1386	Catalytic Performance of Metal Impregnated Carbon (Darco) in Conversion of Polypropylene and High-Density Polyethylene into Useful Products. 2015 , 23, 627-639	1
1385	Toughening Polylactide with Phase-Separating Complex Copolymer Architectures. 2015 , 216, 145-155	7
1384	The Need for Technical Improvement in the Plastics Recycling Industry in Middle-income Countries: The Peruvian Case. 2016 , 32, 201-212	3
1383	Usage of Plastic Bags and Health Hazards: A Study to Assess Awareness Level and Perception about Legislation Among a Small Population of Mangalore City. 2016 , 10, LM01-4	11
1382	Recyclability of PET/WPI/PE Multilayer Films by Removal of Whey Protein Isolate-Based Coatings with Enzymatic Detergents. 2016 , 9,	23
1381	Potential for Reuse of E-Plastics through Processing by Compression Molding. 2016 , 7, 13	6
1380	Oxidized Polyethylene Wax as a Potential Carbon Source for PHA Production. 2016 , 9,	28
1379	Poly(lactic acid) and its blends with petroleum-based resins: Effects of reprocessing and recycling on properties. 2016 , 133,	26
1378	Release of Additives and Monomers from Plastic Wastes. 2016 , 51-70	6
1377	Polymers with autonomous life-cycle control. 2016 , 540, 363-370	215
1376	Synthesis of tetralin derivatives through depolymerization of polyethers with aromatic compounds using a heterogeneous titanium-exchanged montmorillonite catalyst. 2016 , 6, 89231-89233	3
1375	Investigation on an innovative technology for wet separation of plastic wastes. 2016 , 51, 3-12	16

1374	Learning about the types of plastic wastes: effectiveness of inquiry learning strategies. 2016 , 44, 311-324	7
1373	Electricity-based plastics and their potential demand for electricity and carbon dioxide. 2016 , 129, 548-555	39
1372	Thermoplastic Blends from Albumin and Zein: Plastic Formation and Mechanical Properties Including Modeling. 2016 , 24, 309-317	5
1371	Feasibility of using waste polystyrene as a membrane material for gas separation. 2016 , 111, 204-217	25
1370	The role of social marketing, marine turtles and sustainable tourism in reducing plastic pollution. 2016 , 107, 324-332	38
1369	Depolymerization of end-of-life poly(dimethylsilazane) with boron trifluoride diethyl etherate to produce difluorodimethylsilane as useful commodity. 2016 , 191, 1189-1193	1
1368	Circular economy design considerations for research and process development in the chemical sciences. 2016 , 18, 3914-3934	190
1367	Chemical recycling of brominated flame retarded plastics from e-waste for clean fuels production: A review. 2016 , 61, 433-450	148
1366	Environmental and economic life cycle assessment of polymers and polymer matrix composites: a review. 2016 , 28, 55-59	3
1365	Biodegradable packaging materials conception based on starch and polylactic acid (PLA) reinforced with cellulose. 2016 , 23, 20904-20914	46
1364	Synthesis and characterization of polyesters derived from sebacic acid, hexanediol, and hydroquinone. 2016 , 21, 718-727	8
1363	Toxic Pollutants from Plastic Waste- A Review. 2016 , 35, 701-708	282
1362	Depolymerization of Polyethers to Chloroesters Using Heterogeneous Proton Exchanged Montmorillonite Catalyst. 2016 , 1, 201-204	2
1361	Plastic ingestion by Atlantic cod (<i>Gadus morhua</i>) from the Norwegian coast. 2016 , 112, 105-110	111
1360	Morphology and Gas Barrier Properties of Polymer Nanocomposites. 2016 , 397-417	4
1359	Introduction. 2016 , 1-10	1
1358	Ecoprofiles of Recycled Polymers at a Glance. 2016 , 235-255	
1357	Conversion of Paper Waste Into Bioplastic (Poly-Lactic Acid). 2016 , 365, 263-267	1

1356	Novel bacterial consortia isolated from plastic garbage processing areas demonstrated enhanced degradation for low density polyethylene. 2016 , 23, 18307-19	54
1355	Kinetic study of municipal plastic waste. 2016 , 41, 16352-16364	88
1354	Plastic waste in the marine environment: A review of sources, occurrence and effects. 2016 , 566-567, 333-349	645
1353	Product design and business model strategies for a circular economy. 2016 , 33, 308-320	914
1352	The thermal, optical, flame retardant, and morphological consequence of embedding diacid-capped ZnO into the recycled PET matrix. 2016 , 133, n/a-n/a	1
1351	Resource savings by urban mining: The case of desktop and laptop computers in Belgium. 2016 , 107, 53-64	84
1350	The behaviors of microplastics in the marine environment. 2016 , 113, 7-17	354
1349	Damask rose (<i>Rosa damascena</i> Mill.) essential oil is affected by short-and long-term handling. 2016 , 79, 219-224	12
1348	Research and development of a new waste collection bin to facilitate education in plastic recycling. 2016 , 15, 45-57	14
1347	Representative Bureaucracy and the Willingness to Coproduce: An Experimental Study. 2016 , 76, 121-130	101
1346	Recycling polymeric multi-material products through micronization. 2016 , 116, 268-278	17
1345	A review on pyrolysis of plastic wastes. 2016 , 115, 308-326	775
1344	Conversion of Poly(methylhydrosiloxane) Waste to Useful Commodities. 2016 , 146, 345-352	10
1343	. 2016 , 16, 3428-3434	12
1342	Evaluation of recycling of polycarbonate sheets used in ballistic glass packages. 2016 , 38, 1261-1268	
1341	Review of the twenty-three year evolution of the first university course in green chemistry: teaching future leaders how to create sustainable societies. 2017 , 140, 93-110	30
1340	Catalytic pyrolysis of flame retarded high impact polystyrene over various solid acid catalysts. 2017 , 155, 32-41	33
1339	Material properties of the cyanobacterial reserve polymer multi-l-arginyl-poly-l-aspartate (cyanophycin). 2017 , 109, 238-245	13

1338	Enzymatic recovery of polyester building blocks from polymer blends. 2017 , 59, 58-64	57
1337	Improvement of the Miscibility by Combination of Poly(3-hydroxy butyrate) PHB and Poly(propylene carbonate) PPC with Additives. 2017 , 25, 728-738	12
1336	An automated approach for microplastics analysis using focal plane array (FPA) FTIR microscopy and image analysis. 2017 , 9, 1499-1511	224
1335	Adverse effects of microplastics and oxidative stress-induced MAPK/Nrf2 pathway-mediated defense mechanisms in the marine copepod <i>Paracyclopsina nana</i> . 2017 , 7, 41323	183
1334	Characterization of odorous contaminants in post-consumer plastic packaging waste using multidimensional gas chromatographic separation coupled with olfactometric resolution. 2017 , 40, 1500-1507 ²⁷	
1333	A Cost-effectiveness Analysis for Incineration or Recycling of Dutch Household Plastic Waste. 2017 , 135, 22-28	66
1332	Standards for Soil Biodegradable Plastics. 2017 , 139-168	12
1331	An analysis of barriers for plastic recycling in the Indian plastic industry. 2017 , 24, 415-430	32
1330	Development of gelatine-based bio-film from chicken feet incorporated with sugarcane bagasse. 2017 , 47, 175-190	2
1329	Preliminary study to characterize plastic polymers using elemental analyser/isotope ratio mass spectrometry (EA/IRMS). 2017 , 176, 47-56	31
1328	Economics, Ethics, and Ancient Thought. 2017 ,	1
1327	Performance indicators for a circular economy: A case study on post-industrial plastic waste. 2017 , 120, 46-54	177
1326	Pyrolysis of HDPE into fuel like products: Evaluating catalytic performance of plain and metal oxides impregnated waste brick kiln dust. 2017 , 124, 195-203	15
1325	Combining Eco-Efficiency and Eco-Effectiveness for Continuous Loop Beverage Packaging Systems: Lessons from the Carlsberg Circular Community. 2017 , 21, 742-753	49
1324	Lightweight expanded aggregates from the mixture of waste automotive plastics and clay. 2017 , 145, 283-291	21
1323	Distribution pattern of anthropogenic marine debris along the gastrointestinal tract of green turtles (<i>Chelonia mydas</i>) as implications for rehabilitation. 2017 , 119, 231-237	22
1322	Charge-decay electrostatic separation for removing Polyvinyl chloride from mixed plastic wastes. 2017 , 157, 148-154	11
1321	Engineered <i>Humicola insolens</i> cutinase for efficient cellulose acetate deacetylation. 2017 , 12, 1700188	6

1320	Exceptional and rapid accumulation of anthropogenic debris on one of the world's most remote and pristine islands. 2017 , 114, 6052-6055	227
1319	Hydraulic separation of plastic wastes: Analysis of liquid-solid interaction. 2017 , 66, 13-22	14
1318	Influence of PE-CVD and PE-ALD on defect formation in permeation barrier films on PET and correlation to atomic oxygen fluence. 2017 , 50, 235201	7
1317	50th Anniversary Perspective: There Is a Great Future in Sustainable Polymers. 2017 , 50, 3733-3749	470
1316	Up-Conversion Fluorescent Labels for Plastic Recycling: A Review. 2017 , 1, 1600033	46
1315	Conceptual Analysis of Eco-Efficiency and Industrial Symbiosis: Insights from Process Industry. 2017 , 601-612	2
1314	Synthetic fibers as microplastics in the marine environment: A review from textile perspective with a focus on domestic washings. 2017 , 598, 1116-1129	311
1313	Effective management of polyethers through depolymerization to symmetric and unsymmetric glycol diesters using a proton-exchanged montmorillonite catalyst. 2017 , 19, 2612-2619	6
1312	Is the Montreal Protocol a model that can help solve the global marine plastic debris problem?. 2017 , 81, 322-329	45
1311	Aminated poly(vinyl chloride) solid state adsorbents with hydrophobic function for post-combustion CO ₂ capture. 2017 , 5, 11864-11872	20
1310	About the Use of Recycled or Biodegradable Filaments for Sustainability of 3D Printing. 2017 , 776-785	43
1309	Hunting for valuables from landfills and assessing their market opportunities A case study with Kudjape landfill in Estonia. 2017 , 35, 627-635	27
1308	Major Obstacles to Sustainability in the Plastic Industry. 2017 , 8, 121-128	2
1307	Microbial enzymes for the recycling of recalcitrant petroleum-based plastics: how far are we?. 2017 , 10, 1308-1322	297
1306	The use of melt rheology and solution viscometry for degradation study of post-consumer poly(ethylene terephthalate): The effects of the contaminants, reprocessing and solid state polymerization. 2017 , 60, 236-241	13
1305	Composite panels obtained from automotive waste plastics and agricultural macadamia shell waste. 2017 , 151, 163-171	42
1304	Drivers to Sustainable Plastic Solid Waste Recycling: A Review. 2017 , 8, 649-656	53
1303	Biopolymer production and end of life comparisons using life cycle assessment. 2017 , 122, 295-306	106

1302	Sustainable bio-plastic production through landfill methane recycling. 2017 , 71, 555-562	53
1301	Sustainable Fabrication of Protective Nanoscale TiN Thin Film on a Metal Substrate by Using Automotive Waste Plastics. 2017 , 5, 1549-1556	4
1300	Surface and degradation properties of thermoplastic blends from albumin and zein-based plastics. 2017 , 134,	9
1299	Characterization of plastic blends made from mixed plastics waste of different sources. 2017 , 35, 200-206	19
1298	Determination of metal concentrations in certified plastic reference materials after small-size autoclave and microwave-assisted digestion followed with inductively coupled plasma optical emission spectrometry. 2017 , 127, 64-69	6
1297	Fluid dynamics study on a dual fluidized bed cold-flow model. 2017 , 316, 469-475	5
1296	Assessment of the impact of bacteria <i>Pseudomonas denitrificans</i> , <i>Pseudomonas fluorescens</i> , <i>Bacillus subtilis</i> and yeast <i>Yarrowia lipolytica</i> on commercial poly(ether urethanes). 2017 , 63, 484-493	9
1295	Use of laser-induced breakdown spectroscopy for the determination of polycarbonate (PC) and acrylonitrile-butadiene-styrene (ABS) concentrations in PC/ABS plastics from e-waste. 2017 , 70, 212-221	27
1294	Consumer willingness to pay for plastic bags levy and willingness to accept eco-friendly alternatives in Botswana. 2017 , 15, 255-261	23
1293	Effective strategies for enhancing waste management at university campuses. 2017 , 18, 1123-1141	10
1292	Rare Earth metal triflates $M(O_3SCF_3)_3$ ($M = Sc, Yb, La$) as Lewis acid catalysts of depolymerization of poly-(bisphenol A carbonate) via hydrolytic cleavage of carbonate moiety: Catalytic activity of $La(O_3SCF_3)_3$. 2017 , 206, 233-241	27
1291	Seabirds and marine plastic debris in the northeastern Atlantic: A synthesis and recommendations for monitoring and research. 2017 , 231, 1291-1301	42
1290	Plastic Classification with X-ray Absorption Spectroscopy Based on Back Propagation Neural Network. 2017 , 71, 2538-2548	7
1289	A pathway to circular economy: Developing a conceptual framework for complex value assessment of resources recovered from waste. 2017 , 168, 1279-1288	128
1288	Polymeric Nanocomposites for Visible-Light-Induced Photocatalysis. 2017 , 175-201	0
1287	Recent Advances in Processing of Stereocomplex-Type Polylactide. 2017 , 38, 1700454	91
1286	Recycling polymeric waste from electronic and automotive sectors into value added products. 2017 , 11, 1	9
1285	Environmental performance of bio-based and biodegradable plastics: the road ahead. 2017 , 46, 6855-6871	316

1284	Opinion: Why we need an international agreement on marine plastic pollution. 2017 , 114, 9994-9997	127
1283	Fostering Intelligent Moderation in the Next Generation: Insights from Remida-Inspired Reuse Materials Education. 2017 , 13, 234-250	3
1282	Illustrating Plastic Production and End-of-Life Plastic Treatment with Interlocking Building Blocks. 2017 , 94, 1746-1751	5
1281	Agricultural plastic waste spatial estimation by Landsat 8 satellite images. 2017 , 141, 35-45	43
1280	Photocatalytic degradation of polypropylene film using TiO ₂ -based nanomaterials under solar irradiation. 2017 , 133, 10-18	37
1279	Place, matters of concern, and pedagogy: Making impactful connections with our planet. 2017 , 38, 121-135	11
1278	The occurrence of microplastic contamination in littoral sediments of the Persian Gulf, Iran. 2017 , 24, 20459-20468	98
1277	Utilizing CO ₂ to suppress the generation of harmful chemicals from thermal degradation of polyvinyl chloride. 2017 , 162, 1465-1471	20
1276	A versatile optical assay plate fabricated from e-waste and its application towards rapid determination of Fe ³⁺ ions in water. 2017 , 41, 9731-9740	4
1275	Norwegian Waste-to-Energy: Climate change, circular economy and carbon capture and storage. 2017 , 126, 50-61	49
1274	Characterization of piezoelectric films of foamed polyethylene obtained by extrusion. 2017 , 28, 16639-16647	3
1273	Mechanical and chemical recycling of solid plastic waste. 2017 , 69, 24-58	858
1272	Polymer recycling in an open-source additive manufacturing context: Mechanical issues. 2017 , 17, 87-105	86
1271	Using fiber and liquid polymer to improve the behaviour of cement-stabilized soft clay. 2017 , 45, 592-602	62
1270	Fractionation of binary polymer blend based on size distribution of particles prepared by phase inversion method. 2017 , 125, 276-282	2
1269	Improvement potential of today's WEEE recycling performance: The case of LCD TVs in Belgium. 2017 , 11, 1	14
1268	Mechanical recyclability of technical biopolymers: Potential and limits. 2017 , 64, 287-295	14
1267	Plastics Increasing Value, Decreasing Lifetime. 2017 , 9-12	

1266	Towards the effective plastic waste management in Bangladesh: a review. 2017 , 24, 27021-27046	48
1265	Thermal and structural studies of carbon coated MoC synthesized via in-situ single step reduction-carburization. 2017 , 7, 3518	40
1264	UV and thermal stability of soft PVC plasticized with cardanol derivatives. 2017 , 164, 757-764	24
1263	Synthesis and characterization of gallic acid derivatives and their utilized as organic photo-stabilizers for poly (vinyl chloride). 2017 , 24, 1	11
1262	Preparation and characterization of 100% bio-based polylactic acid/palmitic acid microcapsules for thermal energy storage. 2017 , 6, 14	19
1261	Life cycle assessment of polyvinyl chloride production and its recyclability in China. 2017 , 142, 2965-2972	43
1260	Comprehensive analysis and quantification of national plastic flows: The case of Austria. 2017 , 117, 183-194	54
1259	An overview on PET waste recycling for application in packaging. 2017 , 21, 1-24	50
1258	The European PVC cycle: In-use stock and flows. 2017 , 123, 108-116	67
1257	Greening a Familiar General Chemistry Experiment: Coffee Cup Calorimetry to Determine the Enthalpy of Neutralization of an Acid-Base Reaction and the Specific Heat Capacity of Metals. 2017 , 94, 494-499	11
1256	Thermoplastic Starch: A Possible Biodegradable Food Packaging Material - A Review. 2017 , 40, e12447	118
1255	Characterization of wood plastic composites manufactured from recycled plastic blends. 2017 , 161, 469-476	86
1254	Plastic debris and microplastics along the beaches of the Strait of Hormuz, Persian Gulf. 2017 , 114, 1057-1062	111
1253	Recycling of plastic solid waste: A state of art review and future applications. 2017 , 115, 409-422	484
1252	Development of hydrophobicity and selective separation of hazardous chlorinated plastics by mild heat treatment after PAC coating and froth flotation. 2017 , 321, 193-202	39
1251	Constraints driven reverse logistics model for Plastic Solid Waste (PSW). 2017 ,	2
1250	Compostable Polymeric Ecomaterials: Environment-Friendly Waste Management Alternative to Landfills. 2017 , 1-31	2
1249	Environmental Analysis of Plastic Waste Handling. 2017 , 67-73	

1248	Finite element analysis of plastic recycling machine designed for production of thin filament coil. 2017 , 36, 411	2
1247	Polypropylene Composites Manufactured from Recycled Carbon Fibers from Aeronautic Materials Waste. 2017 , 20, 519-525	14
1246	Natural bacterial biodegradable medical polymers. 2017 , 257-277	6
1245	Evaluation of Structures and Morphologies of Recycled PC/PET Blends Fabricated by High-Shear Kneading Processing. 2017 , 32, 568-573	3
1244	Methods of Recycling, Properties and Applications of Recycled Thermoplastic Polymers. 2017 , 2, 24	183
1243	Revived Beauty: Research into Aesthetic Appreciation of Materials to Valorise Materials from Waste. 2017 , 9, 529	9
1242	The Molecular Level Characterization of Biodegradable Polymers Originated from Polyethylene Using Non-Oxygenated Polyethylene Wax as a Carbon Source for Polyhydroxyalkanoate Production. 2017 , 4,	25
1241	Enzymatic Degradation of Poly(ethylene 2,5-furanoate) Powders and Amorphous Films. 2017 , 7, 318	54
1240	Recycling of Rolling Stocks. 2017 , 4, 39	8
1239	Mikroplastik in Binnengewässern. 2017 , 1-35	3
1238	Recycling of polymer-polymer composites. 2017 , 263-277	8
1237	Using recycled polymers for the preparation of polymer nanocomposites: Properties and applications. 2017 , 197-226	2
1236	Recirculation: A New Concept to Drive Innovation in Sustainable Product Design for Bio-Based Products. 2016 , 22,	24
1235	Circular Economy Potential in the Carpet Industry. 2017 , 05,	
1234	Disposal of Plastics. 2017 , 187-195	3
1233	Mitigation measures to avert the impacts of plastics and microplastics in the marine environment (a review). 2018 , 25, 9293-9310	52
1232	Greening of business: A step towards sustainability. 2018 , 18, e1705	3
1231	A hierarchical classification approach for recognition of low-density (LDPE) and high-density polyethylene (HDPE) in mixed plastic waste based on short-wave infrared (SWIR) hyperspectral imaging. 2018 , 198, 115-122	33

1230	Life cycle assessment of bottled water: A case study of Green2O products. 2018 , 76, 734-743	27
1229	Influence of average ion energy and atomic oxygen flux per Si atom on the formation of silicon oxide permeation barrier coatings on PET. 2018 , 51, 145201	3
1228	Chitosan/Polyvinylpyrrolidone/MCM-41 Composite Hydrogel Films: Structural, Thermal, Surface, and Antibacterial Properties. 2018 , 70, 1700303	14
1227	Resurfacing and modernization of edible packaging material technology. 2018 , 19, 104-112	29
1226	Segmentation of interested and less interested consumers in sports equipment made of bio-based plastic. 2018 , 14, 53-65	20
1225	Development of a microwave thermogravimetric analyzer and its application on polystyrene microwave pyrolysis kinetics. 2018 , 130, 209-215	17
1224	Environmental impact of biodegradable food packaging when considering food waste. 2018 , 180, 325-334	97
1223	Environmental impact of a new industrial process for the recovery and valorisation of packaging materials derived from packaged food waste. 2018 , 14, 105-121	19
1222	Sustainable Polyester Elastomers from Lactones: Synthesis, Properties, and Enzymatic Hydrolyzability. 2018 , 140, 963-973	64
1221	Mechanical recycling of nanocellulose containing multilayer packaging films. 2018 , 135, 46237	10
1220	Analysis of the foaming mechanisms of materials based on high-density polyethylene (HDPE) crosslinked with different irradiation doses. 2018 , 135, 46276	2
1219	Quantifying nanoplastic-bound chemicals accumulated in <i>Daphnia magna</i> with a passive dosing method. 2018 , 5, 776-781	24
1218	Microplastics in Inland African Waters: Presence, Sources, and Fate. 2018 , 101-124	14
1217	Commonly Used Disposable Plastic Bags as a Source of Microplastic in Environment. 2018 , 99-106	1
1216	A life cycle assessment data analysis toolkit for the design of novel processes [A case study for a thermal cracking process for mixed plastic waste. 2018 , 180, 735-747	35
1215	A Carbomethoxylated Polyvalerolactone from Malic Acid: Synthesis and Divergent Chemical Recycling. 2018 , 7, 143-147	27
1214	Processes in informal end-processing of e-waste generated from personal computers in Vietnam. 2018 , 20, 1154-1178	9
1213	Application of tribo-electrostatic separation in the recycling of plastic wastes. 2018 , 114, 219-228	33

1212	Food packaging in the circular economy: Overview of chemical safety aspects for commonly used materials. 2018 , 193, 491-505	205
1211	A comparative assessment of single cylinder diesel engine characteristics with plasto-oils derived from municipal mixed plastic waste. 2018 , 166, 579-589	29
1210	A recyclability study of bagasse fiber reinforced polypropylene composites. 2018 , 152, 272-279	41
1209	Plastic flexible films waste management - A state of art review. 2018 , 77, 413-425	177
1208	Strategies for the Recovery and Recycling of Plastic Solid Waste (PSW): A Focus on Plastic Manufacturing Companies. 2018 , 21, 686-693	11
1207	Vitrimeric Silicone Elastomers Enabled by Dynamic Meldrum Acid-Derived Cross-Links. 2018 , 7, 482-486	99
1206	Plastic recycling in the Nordics: A value chain market analysis. 2018 , 76, 180-189	83
1205	Recent developments in recycling of polystyrene based plastics. 2018 , 13, 32-38	70
1204	Development of a closed-loop recycling process for discontinuous carbon fibre polypropylene composites. 2018 , 146, 222-231	50
1203	Environmental impact assessment framework for product packaging. 2018 , 29, 499-515	3
1202	Monomer recovery through advanced pyrolysis of waste high density polyethylene (HDPE). 2018 , 20, 1813-1823	51
1201	Quantification and characterization of microplastics in blue mussels (<i>Mytilus edulis</i>): protocol setup and preliminary data on the contamination of the French Atlantic coast. 2018 , 25, 6135-6144	63
1200	Influence of Solid-state Shear Milling on Structure and Mechanical Properties of Polypropylene/Polyethylene Blends. 2018 , 57, 682-689	1
1199	Catalysis as an Enabling Science for Sustainable Polymers. 2018 , 118, 839-885	422
1198	An overview of chemical additives present in plastics: Migration, release, fate and environmental impact during their use, disposal and recycling. 2018 , 344, 179-199	1105
1197	Spatial variability in the concentrations of metals in beached microplastics. 2018 , 129, 487-493	109
1196	A novel dry cleaning system for contaminated waste plastic purification in gas-solid media. 2018 , 171, 1472-1480	8
1195	Evaluation of the quality of postconsumer plastics obtained from disassembly-based recycling strategies. 2018 , 58, 485-492	11

1194	Mind the generation gap: Differences between young and old in everyday lexical categories. 2018 , 98, 12-25	13
1193	A dextran with unique rheological properties produced by the dextransucrase from <i>Oenococcus oeni</i> DSM 17330. 2018 , 179, 10-18	21
1192	Recent Trends in Green and Sustainable Chemistry & Waste Valorisation: Rethinking Plastics in a circular economy. 2018 , 9, 30-39	75
1191	Platinum-doped titanate nanotubes/reduced graphene oxide: photocatalytic activity and flame retardancy. 2018 , 5, 015018	
1190	Fabrication of self-reinforced polyester composites and their mechanical and flame retardant properties. 2018 , 37, 2436-2445	1
1189	Mechanical recycling: Compatibilization of mixed thermoplastic wastes. 2018 , 147, 245-266	111
1188	Host recycled poly(ethylene terephthalate) and guest PVA-grafted ZnO nanoparticles: prepared nanocomposites characterization. 2018 , 75, 1715-1730	6
1187	Combustion behaviors of wasted plastics coated around electric cables in electrically heated drop tube furnaces. 2018 , 20, 543-551	3
1186	PHB (poly-β-hydroxybutyrate) and its enzymatic degradation. 2018 , 29, 30-40	50
1185	Oil sorbents from plastic wastes and polymers: A review. 2018 , 341, 424-437	106
1184	Photocatalytic Properties and Plastic Degradation of TiO ₂ Nanocomposite with Synthetic-rutile from Natural Ore. 2018 , 65, 719-724	2
1183	Sustainable Packaging and the Circular Economy: An EU Perspective. 2018 ,	5
1182	The High Density Polyethylene Composite with Recycled Radiation Cross-Linked Filler of rHDPE. 2018 , 10,	10
1181	Recycling Plastics. 2018 , 1-63	1
1180	Modelling Sustainable Manufacturing practices for plastic part manufacturing organization using Interpretive Structural Modeling. 2018 ,	
1179	Prospective Biodegradable Plastics from Biomass Conversion Processes. 2018 ,	16
1178	Repetitive Implementation of Material Value Conservation and its Effects on the Mechanical Properties of Plastic Recycling Products. 2018 , 936, 116-120	7
1177	Tensile Strength Prediction of Polyethylene Terephthalate Bottle Ropes using Neuro - fuzzy. 2018 ,	0

1176	Development of Bottle Recycling Machine Using Machine Learning Algorithm. 2018 ,	2
1175	Investigations for Metal Matrix Composites Prepared by Using Waste Polymer-Based Sacrificial Rapid Pattern in Investment Casting. 2018 , 376-384	2
1174	Resource or waste? A perspective of plastics degradation in soil with a focus on end-of-life options. 2018 , 4, e00941	60
1173	Simulation on Effect of Preform Diameter in Injection Stretch Blow Molding. 2018 , 319, 012053	
1172	Amorphous Carbon Chips Li-Ion Battery Anodes Produced through Polyethylene Waste Upcycling. 2018 , 3, 17520-17527	20
1171	Formalization of Informal Waste Pickers Cooperatives in Blantyre, Malawi: A Feasibility Assessment. 2018 , 10, 1149	11
1170	Strength properties of polyethylene in bituminous mixtures for flexible pavement. 2018 ,	0
1169	Review on PCL, PBS, and PCL/PBS blends containing carbon nanotubes. 2018 , 12, 505-529	47
1168	Screening and Characterization of Novel Polyesterases from Environmental Metagenomes with High Hydrolytic Activity against Synthetic Polyesters. 2018 , 52, 12388-12401	28
1167	Compatibilization strategies toward new polymer materials from re-/up-cycled plastics. 2018 , 23, 740-757	5
1166	Plastic waste as a significant threat to environment - a systematic literature review. 2018 , 33, 383-406	46
1165	The true depth of the Mediterranean plastic problem: Extreme microplastic pollution on marine turtle nesting beaches in Cyprus. 2018 , 136, 334-340	29
1164	Marine debris in Trindade Island, a remote island of the South Atlantic. 2018 , 137, 180-184	40
1163	A Comprehensive Analysis of Plastics and Microplastic Legislation Worldwide. 2018 , 229, 1	56
1162	Land use mediated GHG emissions and spillovers from increased consumption of bioplastics. 2018 , 13, 125005	31
1161	Ductility and Toughness Improvement of Injection-Molded Compostable Pieces of Polylactide by Melt Blending with Poly(ϵ -caprolactone) and Thermoplastic Starch. 2018 , 11,	27
1160	Assessment of plastic waste materials degradation through near infrared spectroscopy. 2018 , 82, 71-81	22
1159	On the role of flame retardants in mechanical recycling of solid plastic waste. 2018 , 82, 198-206	44

1158	PET Bottle Recycling for Sustainable Textiles. 2018,	13
1157	Centrifugal dewatering performance in plastic films recycling. 2018, 80, 211-217	5
1156	Pyrolysis process to produce fuel from different types of plastic [a review]. 2018, 396, 012062	15
1155	Benzoic acid recovery via waste poly(ethylene terephthalate) (PET) catalytic pyrolysis using sulphated zirconia catalyst. 2018, 134, 621-631	36
1154	Biodegradability standards for carrier bags and plastic films in aquatic environments: a critical review. 2018, 5, 171792	109
1153	Fermentation optimization and mathematical modeling of glycerol-based microbial poly(3-hydroxybutyrate) production. 2018, 71, 1-11	10
1152	A DEMATEL approach for evaluating barriers for sustainable end-of-life practices. 2018, 29, 1065-1091	34
1151	Comparative study on the deposition of silicon oxide permeation barrier coatings for polymers using hexamethyldisilazane (HMDSN) and hexamethyldisiloxane (HMDSO). 2018, 51, 235201	6
1150	Enzymatic degradation of poly (butylene succinate-co-hexamethylene succinate). 2018, 155, 9-14	21
1149	Heavy Exposure of Waste Collectors to Polycyclic Aromatic Hydrocarbons in a Poor Rural Area of Middle China. 2018, 52, 8866-8875	7
1148	Technology advancing polymers and polymer composites towards sustainability: A review. 2018, 13, 108-112	31
1147	Solvent-based separation and recycling of waste plastics: A review. 2018, 209, 707-720	93
1146	Ingestion of marine debris by Wedge-tailed Shearwaters (<i>Ardenna pacifica</i>) on Lord Howe Island, Australia during 2005-2018. 2018, 133, 616-621	17
1145	First evidence of microplastic ingestion by fishes from the Amazon River estuary. 2018, 133, 814-821	113
1144	Agricultural plastic waste mapping using GIS. A case study in Italy. 2018, 137, 229-242	44
1143	Polylactic Acid Biocomposites Reinforced with Nanocellulose Fibrils with High Lignin Content for Improved Mechanical, Thermal, and Barrier Properties. 2018, 6, 10058-10068	81
1142	Characterization of concrete composites with recycled plastic aggregates from postconsumer material streams. 2018, 182, 561-572	41
1141	Specific testing of geotextiles and geosynthetics. 2018, 239-299	

1140	Production of biofuel precursor chemicals from the mixture of cellulose and polyvinylchloride in polar aprotic solvent. 2018 , 78, 894-902	8
1139	Sustainability Impact Assessment of Increased Plastic Recycling and Future Pathways of Plastic Waste Management in Sweden. 2018 , 3, 33	22
1138	Numerical Analysis to Improve the Ballistic Trajectory of an Air-Based Material Density Separator System. 2018 , 8, 359	
1137	Use of Irradiated Polymers after Their Lifetime Period. 2018 , 10,	4
1136	Recycling of Polymer-Based Multilayer Packaging: A Review. 2018 , 3, 1	162
1135	Experimental Investigation of the Productivity of a Wet Separation Process of Traditional and Bio-Plastics. 2018 , 5, 26	7
1134	Incineration of Nanoclay Composites Leads to Byproducts with Reduced Cellular Reactivity. 2018 , 8, 10709	11
1133	3D-printing Ocean plastic Boosting childrens Engagement with sustainability. 2018 , 16, 56-59	7
1132	Fused Particle Fabrication 3-D Printing: Recycled Materials' Optimization and Mechanical Properties. 2018 , 11,	75
1131	Impact of Plastic Labelling, Coloring and Printing on Material Value Conservation in the Products of Secondary Recycling. 2018 , 773, 384-389	9
1130	Approaches to Sustainable and Continually Recyclable Cross-Linked Polymers. 2018 , 6, 11145-11159	196
1129	An evaluation of hydrocyclones and the LARCODEMS cylindrical cyclone for the separation of waste plastics of proximate densities. 2018 , 79, 374-384	8
1128	Microplastic abundance and characteristics in French Atlantic coastal sediments using a new extraction method. 2018 , 243, 228-237	54
1127	Biopolymer blend with semiconductivity for next generation in electronic devices. 2018 , 124, 1	4
1126	Role of plastics in decoupling municipal solid waste and economic growth in the U.S. 2018 , 77, 147-155	12
1125	Circular economy and Cradle to Cradle in educational practice. 2018 , 15, 119-134	21
1124	Miniaturized Al/AgO coin shape and self-powered battery featuring painted paper electrodes for portable applications. 2018 , 273, 101-107	5
1123	A Review on Preparation and Properties of Cellulose Nanocrystal-Incorporated Natural Biopolymer. 2018 , 2, 149-166	19

1122	Temperature dependent separation of immiscible polymer blend in a melted state. 2018 , 77, 364-372	3
1121	Developing a set of sustainability indicators for product families based on the circular economy model. 2018 , 196, 1429-1442	54
1120	Environmental Aspects of Plastics. 2018 , 207-232	2
1119	Introduction to Polymer and Their Recycling Techniques. 2018 , 1-16	1
1118	Municipal solid waste management in Kitwe City. 2018 , 29, 1075-1092	3
1117	The present and future of e-waste plastics recycling. 2018 , 13, 102-107	54
1116	Current approaches to waste polymer utilization and minimization: a review. 2019 , 94, 8-21	89
1115	Approaches to solving China's marine plastic pollution and CO2 emission problems. 2019 , 31, 143-157	11
1114	Assessing the Causal Effect of Curbside Collection on Recycling Behavior in a Non-randomized Experiment with Self-reported Outcome. 2019 , 72, 1203-1223	4
1113	The potential of oxalic and glycolic acid based polyesters (review). Towards CO2 as a feedstock (Carbon Capture and Utilization [CCU]). 2019 , 119, 445-468	37
1112	Microbial degradation of four biodegradable polymers in soil and compost demonstrating polycaprolactone as an ideal compostable plastic. 2019 , 97, 105-114	59
1111	Waste Electrical and Electronic Equipment: A Review on the Identification Methods for Polymeric Materials. 2019 , 4, 32	15
1110	Sustainable, Reshapable Surfactant-Polyelectrolyte Plastics Employing Water as a Plasticizer. 2019 , 11, 31311-31316	5
1109	Biological Degradation of Polymers in the Environment. 2019 ,	15
1108	Photo-Induced Depolymerisation: Recent Advances and Future Challenges. 2019 , 3, 1059-1076	9
1107	Closing the loop for PET, PE and PP waste from households: Influence of material properties and product design for plastic recycling. 2019 , 96, 75-85	105
1106	An overview of the challenges and trade-offs in closing the loop of post-consumer plastic waste (PCPW): Focus on recycling. 2019 , 380, 120887	83
1105	The leaching of additive-derived flame retardants (FRs) from plastics in avian digestive fluids: The significant risk of highly lipophilic FRs. 2019 , 85, 200-207	20

1104	Life cycle assessment of biogas digester in small scale tapioca industry. 2019 , 258, 012017	0
1103	Solutions and Integrated Strategies for the Control and Mitigation of Plastic and Microplastic Pollution. 2019 , 16,	148
1102	Enhancing Pupils' Pro-environmental Knowledge, Attitudes, and Behaviours Toward Plastic Recycling: A Quasi-experimental Study in Primary Schools. 2019 , 159-188	2
1101	Occurrence and identification of microplastics in beach sediments from the Hauts-de-France region. 2019 , 26, 28010-28021	27
1100	Bioengineering a Future Free of Marine Plastic Waste. 2019 , 6,	15
1099	Ocean pollution and warming oceans: toward ocean solutions and natural marine bioremediation. 2019 , 495-518	4
1098	Plastics and Additives. 2019 , 7-35	
1097	Biological Valorization of Poly(ethylene terephthalate) Monomers for Upcycling Waste PET. 2019 , 7, 19396-19406	62
1096	Smart Approach of Solid Waste Management for Recycling of Polymers: A Review. 2019 , 5, 4-11	
1095	New ultrastiff bio-furan epoxy networks with high T _g : Facile synthesis to excellent properties. 2019 , 121, 109292	8
1094	Catalyzing the Hydrocracking of Low Density Polyethylene. 2019 , 58, 20601-20609	21
1093	Upcycling Single-Use Polyethylene into High-Quality Liquid Products. 2019 , 5, 1795-1803	105
1092	Molecular dynamics study of natural rubber-fullerene composites: connecting microscopic properties to macroscopic behavior. 2019 , 21, 19403-19413	13
1091	Circular use of plastics-transformation of existing petrochemical clusters into thermochemical recycling plants with 100% plastics recovery. 2019 , 22, e00124	19
1090	Challenges and prospects of plastic waste management in Nigeria. 2019 , 1, 117-126	21
1089	Miniaturized Near-Infrared (MicroNIR) Spectrometer in Plastic Waste Sorting. 2019 , 12,	34
1088	Plastic pollutants: effective waste management for pollution control and abatement. 2019 , 12, 72-84	78
1087	An agriculture-inspired nanostrategy towards flexible and highly efficient hybrid supercapacitors using ubiquitous substrates. 2019 , 66, 104054	25

1086	Biocatalysis explained: from pharmaceutical to bulk chemical production. 2019 , 4, 1878-1894	72
1085	Challenges and opportunities for reduction of single use plastics in healthcare: A case study of single use infant formula bottles in two Irish maternity hospitals. 2019 , 151, 104462	18
1084	Biodegradation of Cellulose in Laboratory-Scale Bioreactors: Experimental and Numerical Studies. 2019 , 27, 2793-2803	2
1083	Green Composite Materials from Biopolymers Reinforced with Agroforestry Waste. 2019 , 27, 2651-2673	24
1082	Highly elastic and degradable thermoset elastomers from CO ₂ -based polycarbonates and bioderived polyesters. 2019 , 10, 5265-5270	2
1081	Effect of injection timing on performance and emission characteristics of single cylinder diesel engine running on blends of diesel and waste plastic fuels. 2019 , 17, 209-215	7
1080	Polyethylene/phosphors composites, a novel treatment for LDPE plastic. 2019 , 96, 109336	1
1079	Materials flow analysis in support of circular economy development: Plastics in Trinidad and Tobago. 2019 , 150, 104436	32
1078	Towards a more circular economy for WEEE plastics - Part A: Development of innovative recycling strategies. 2019 , 100, 269-277	23
1077	Promoting Recycling of Mixed Waste Polymers in Wood-Polymer Composites Using Compatibilizers. 2019 , 4, 6	5
1076	Composition of Plastic Fractions in Waste Streams: Toward More Efficient Recycling and Utilization. 2019 , 11,	26
1075	Experimental Study of the Effect of Nano-silica on the Mechanical Properties of Concrete/PET Composites. 2019 , 23, 3660-3668	17
1074	Utilizing recycled PET blends with demolition wastes as construction materials. 2019 , 221, 200-209	41
1073	Compostable composites of wheat stalk micro- and nanocrystalline cellulose and poly(butylene adipate-co-terephthalate): Surface properties and degradation behavior. 2019 , 136, 48149	14
1072	Plastic waste from recycling centres: Characterisation and evaluation of plastic recyclability. 2019 , 95, 388-398	95
1071	Nanoedible films for food packaging: a review. 2019 , 54, 12290-12318	70
1070	Plastic waste product development: environment preservation efforts. 2019 , 243, 012149	5
1069	Sustainable Synthesis of Renewable Terpenoid-Based (Meth)acrylates Using the CHEM21 Green Metrics Toolkit. 2019 , 7, 11633-11639	25

1068	Femtosecond laser-induced breakdown spectroscopy studies for the identification of plastics. 2019 , 34, 1683-1692	17
1067	Recycling of End-of-Life Poly(bisphenol A carbonate) via Alkali Metal Halide-Catalyzed Phenolysis. 2019 , 8, 822-827	16
1066	Designed from Recycled: Turning Polyethylene Waste to Covalently Attached Polylactide Plasticizers. 2019 , 7, 11004-11013	29
1065	Separation mechanism of polyvinyl chloride and copper components from swollen electric cables by mechanical agitation. 2019 , 93, 54-62	8
1064	Stakeholder perceptions of marine plastic waste management in the United Kingdom. 2019 , 163, 77-87	28
1063	The drivers of household drinking water choices in Singapore: Evidence from multivariable regression analysis of perceptions and household characteristics. 2019 , 671, 1116-1124	8
1062	Smart Wearable Textiles with Breathable Properties and Repeatable Shaping in In Vitro Orthopedic Support from a Novel Biomass Thermoplastic Copolyester. 2019 , 304, 1900103	8
1061	A circular economy approach to plastic waste. 2019 , 165, 170-181	122
1060	Can biotechnology turn the tide on plastics?. 2019 , 57, 160-166	13
1059	Current influence of China's ban on plastic waste imports. 2019 , 1, 67-78	54
1058	Novel method for sustainable and selective separation of PVC and PET by the homogeneous dissociation of H ₂ O ₂ using ultrasonication. 2019 , 21, 1085-1094	4
1057	Ultrahigh-throughput screening system for directed polymer binding peptide evolution. 2019 , 116, 1856-1867	10
1056	Modification of low-molecular polylactic acid by CaF ₂ nanoparticles: A new approach to change its material properties. 2019 , 136, 47875	6
1055	Municipal solid waste (MSW) landfill: A source of microplastics? -Evidence of microplastics in landfill leachate. 2019 , 159, 38-45	225
1054	Modelling of a novel infrared recycler for reclaiming waste plastics from automotive vehicles. 2019 , 38, 740-751	1
1053	Joint effort among research infrastructures to quantify the impact of plastic debris in the ocean. 2019 , 14, 065001	17
1052	Environmental Deterioration of Biodegradable, Oxo-biodegradable, Compostable, and Conventional Plastic Carrier Bags in the Sea, Soil, and Open-Air Over a 3-Year Period. 2019 , 53, 4775-4783	144
1051	Morphology and Properties of a New Biodegradable Material Prepared from Zein and Poly(butylene adipate-terephthalate) by Reactive Blending. 2019 , 4, 5609-5616	11

1050	Green Principles for Vehicle Lightweighting. 2019 , 53, 4063-4077	12
1049	Introduction. 2019 , 3-20	2
1048	Depolymerization of End-of-Life Poly(bisphenol A carbonate) via Transesterification with Acetic Anhydride as Depolymerization Reagent. 2019 , 4, 2639-2643	13
1047	Ecosystem services impacts as part of building materials selection criteria. 2019 , 3-4, 100010	3
1046	Sustainable hydrophilization to separate hazardous chlorine PVC from plastic wastes using HO/ultrasonic irrigation. 2019 , 88, 28-38	9
1045	Assessing the Environmental Sustainability of Food Packaging: An Extended Life Cycle Assessment including Packaging-Related Food Losses and Waste and Circularity Assessment. 2019 , 11, 925	60
1044	Bio-based blends from poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and natural rubber for packaging applications. 2019 , 136, 47334	10
1043	Waste Characteristics Study and Recycling Practice Trend at Tuanku Abdul Halim MuĒdzam Shah Engineering Complex, UiTM. 2019 , 797, 65-73	
1042	Structure of the plastic-degrading Ideonella sakaiensis MHETase bound to a substrate. 2019 , 10, 1717	146
1041	Strategies to reduce the global carbon footprint of plastics. 2019 , 9, 374-378	285
1040	Recycling of Mixed Poly(Ethylene-terephthalate) and Poly(Lactic Acid). 2019 , 253, 02005	3
1039	3D-Printed Polyester-Based Prototypes for Cosmetic Applications-Future Directions at the Forensic Engineering of Advanced Polymeric Materials. 2019 , 12,	5
1038	Evaluation of the efficiency of odor removal from recycled HDPE using a modified recycling process. 2019 , 146, 89-97	26
1037	Current developments in chemical recycling of post-consumer polyethylene terephthalate wastes for new materials production: A review. 2019 , 225, 1052-1064	117
1036	Transformation of polyethylene into a vitrimer by nitroxide radical coupling of a bis-dioxaborolane. 2019 , 10, 3107-3115	59
1035	Utilization of metalized plastic waste of food packaging articles in geopolymers concrete. 2019 , 21, 1014-1026	16
1034	Use of bio-based polymers in agricultural exclusion nets: A perspective. 2019 , 180, 121-145	23
1033	Techniques for separation of plastic wastes. 2019 , 9-37	12

1032	Concrete reinforced with metalized plastic waste fibers. 2019 , 349-367	
1031	Sustainability of using recycled plastic fiber in concrete. 2019 , 441-460	11
1030	Hydraulic separation of plastic wastes. 2019 , 39-68	
1029	Recycling of plastic waste into tiles with reduced flammability and improved tensile strength. 2019 , 124, 299-307	31
1028	Comparison of cut-resistance performance of gloves made from virgin and recycled Para-Aramid fibres. 2019 , 507, 012001	2
1027	Microplastics: A Global Water Pollution Problem. 2019 , 1-15	0
1026	Community Approaches To Recycling Plastics. 2019 ,	1
1025	Microbial production of poly (3-hydroxybutyrate) (PHB) from rubber seed oil using <i>Cupriavidus necator</i> H16. 2019 , 398, 012008	2
1024	Simulation of Green Operations Supply Chain in Waste of Plastic. 2019 , 495, 012080	2
1023	Mechanical, rheological and anaerobic biodegradation behavior of a Poly(lactic acid) blend containing a Poly(lactic acid)-co-poly(glycolic acid) copolymer. 2019 , 170, 109018	13
1022	Ruthenium-Catalyzed Hydrogenative Depolymerization of End-of-Life Poly(bisphenol A carbonate). 2019 , 4, 12268-12271	15
1021	Plastics Waste [Consumer and Industry. 2019 , 73-96	
1020	Hydrogenative Depolymerization of End-of-Life Poly-(Bisphenol A Carbonate) Catalyzed by a Ruthenium-MACHO-Complex. 2019 , 8, 1410-1412	10
1019	Ensuring sustainability in plastics use in Africa: consumption, waste generation, and projections. 2019 , 31,	65
1018	Allocation Procedures for Generic Cascade Use Cases - An Evaluation Using Monte Carlo Analysis. 2019 , 959, 32-45	2
1017	Polyhydroxyalkanoate: a biodegradable polymer (a mini review). 2019 , 1378, 042007	10
1016	Chemical Recycling of End-of-Life Polyamide 6 via Ring Closing Depolymerization. 2019 , 4, 12638-12642	18
1015	Warpage Optimisation On The Front Panel Housing Moulded By Acrylonitrile Butadiene Styrene (ABS) (Virgin and Recycle) Material: A Review. 2019 , 551, 012025	

1014	Physical Aging of Polylactide-Based Graft Block Polymers. 2019 , 52, 8878-8894	14
1013	A Scientometric Review of Resource Recycling Industry. 2019 , 16,	14
1012	PMBD: a Comprehensive Plastics Microbial Biodegradation Database. 2019 , 2019,	36
1011	High-Performance Nylon-6 Sustainable Filaments for Additive Manufacturing. 2019 , 12,	19
1010	IoT Application Proposal in the Recycling of PET Bottles in Lima. 2019 ,	
1009	Metal matrix composite from recycled materials by using additive manufacturing assisted investment casting. 2019 , 207, 129-135	26
1008	Specific oligomer recovery behavior from cured unsaturated polyester by superheated steam degradation. 2019 , 161, 1-6	3
1007	Thermal Transformation of Metallized Plastic Packaging Waste into Value-Added Al/Al ₃ C ₄ /AlN Resources. 2019 , 7, 1723-1733	14
1006	Environmentally-friendly technology for rapid on-line recycling of acrylonitrile-butadiene-styrene, polystyrene and polypropylene using near-infrared spectroscopy. 2019 , 213, 838-844	14
1005	Poly(Alkyl Glycidate Carbonate)s as Degradable Pressure-Sensitive Adhesives. 2019 , 131, 1421-1425	3
1004	Circular supply chains in emerging economies – a comparative study of packaging recovery ecosystems in China and Brazil. 2019 , 57, 7248-7268	44
1003	Biotechnological tools for the effective management of plastics in the environment. 2019 , 49, 410-441	31
1002	Comparative study of mechanical characteristics of recycled PET fibres for automobile seat cover application. 2019 , 48, 992-1008	9
1001	Structure-related properties of bionanocomposites based on poly(lactic acid), cellulose nanocrystals and organic impact modifier. 2019 , 34, 143-156	10
1000	Tailoring Hydrocarbon Polymers and All-Hydrocarbon Composites for Circular Economy. 2019 , 40, e1800608	34
999	Life Cycle Assessment (LCA) in Municipal Waste Management Decision Making. 2019 , 377-402	2
998	The Role of Biodegradable Plastic in Solving Plastic Solid Waste Accumulation. 2019 , 469-505	18
997	Iranian experiences in terms of consumption of disposable single- use plastics: Introduction to theoretical variables for developing environmental health promotion efforts. 2019 , 65, 18-22	4

996	Destabilization of polyethylene and polyvinylchloride structure by marine bacterial strain. 2019 , 26, 1507-1516	46
995	Polymers from plants: Biomass fixed carbon dioxide as a resource. 2019 , 503-525	7
994	Emissions and Environmental Burdens Associated With Plastic Solid Waste Management. 2019 , 313-342	11
993	The Valorization of Plastic Via Thermal Means: Industrial Scale Combustion Methods. 2019 , 295-312	3
992	Processability and Degradability of PHA-Based Composites in Terrestrial Environments. 2019 , 20,	36
991	Tuning the interphase adhesion in high-density polyethylene/silica nanocomposites with ionic liquids. 2019 , 136, 47366	1
990	Major Technologies Implemented for Chemicals and Fuel Recovery. 2019 , 21-44	
989	Emergence of Nanoplastic in the Environment and Possible Impact on Human Health. 2019 , 53, 1748-1765	356
988	Use of Supercritical Water for the Liquefaction of Polypropylene into Oil. 2019 , 7, 3749-3758	57
987	mutagenicity and genotoxicity of raw and simulated leachates from plastic waste dumpsite. 2019 , 29, 403-410	3
986	Regulations on Recycling PET Bottles. 2019 , 23-35	3
985	Materials Recovery, Direct Reuse and Incineration of PET Bottles. 2019 , 37-60	2
984	Life Cycle Assessment (LCA) of PET Bottles. 2019 , 149-168	2
983	Evaluating the environmental impacts of recycling wind turbines. 2019 , 22, 316-326	40
982	Photodegradation and Biodegradation Under Thermophile Conditions of Mulching Films Based on Poly(Butylene Adipate-co-Terephthalate) and Its Blend with Poly(Lactic Acid). 2019 , 27, 352-363	20
981	Plastic bag use in South Africa: Perceptions, practices and potential intervention strategies. 2019 , 84, 320-328	44
980	Compound tribo-electrostatic separation for recycling mixed plastic waste. 2019 , 367, 43-49	10
979	Advancing sustainable consumption and production in cities - A transdisciplinary research and stakeholder engagement framework to address consumption-based emissions and impacts. 2019 , 213, 114-125	32

978	Poly(Alkyl Glycidate Carbonate)s as Degradable Pressure-Sensitive Adhesives. 2019 , 58, 1407-1411	20
977	How to manage biocomposites wastes end of life? A life cycle assessment approach (LCA) focused on polypropylene (PP)/wood flour and polylactic acid (PLA)/flax fibres biocomposites. 2019 , 83, 184-193	47
976	Interactions between microplastics and phthalate esters as affected by microplastics characteristics and solution chemistry. 2019 , 214, 688-694	102
975	Sustainability metrics for assessing manufacturing systems: a distance-to-target methodology. 2019 , 21, 2811-2834	8
974	Properties and characterization of wood plastic composites made from agro-waste materials and post-used expanded polyester foam. 2019 , 32, 951-966	7
973	A Review and Typology of Circular Economy Business Model Patterns. 2019 , 23, 36-61	287
972	Technical Feasibility of Zero Waste for Paper and Plastic Wastes. 2019 , 10, 1355-1363	9
971	Packaging Strategies That Save Food: A Research Agenda for 2030. 2019 , 23, 532-540	65
970	Polymer-Recycling of Bulk Plastics. 2020 , 432-454	4
969	Depolymerization of End-of-Life Poly(bisphenol A carbonate) via Alkali-Metal-Halide-Catalyzed Methanolysis. 2020 , 9, 359-363	13
968	Molecular mechanism of acetoacetyl-CoA enhanced kinetics for increased bioplastic production from 428. 2020 , 38, 827-840	5
967	Methyltrimethoxysilane-coated recycled polyethylene terephthalate aerogels for oil spill cleaning applications. 2020 , 239, 122064	30
966	A horizontal test method for biodegradation in soil of bio-based and conventional plastics and lubricants. 2020 , 242, 118392	13
965	Combustion and emission analysis of hydrogenated waste polypropylene pyrolysis oil blended with diesel. 2020 , 386, 121453	36
964	Behavior of microplastics and plastic film residues in the soil environment: A critical review. 2020 , 703, 134722	198
963	Co-gasification of palm kernel shell and polystyrene plastic: Effect of different operating conditions. 2020 , 93, 1045-1052	20
962	Politics and the plastic crisis: A review throughout the plastic life cycle. 2020 , 9, e360	86
961	Depolymerization of End-of-Life Poly(bisphenol A carbonate) via 4-Dimethylaminopyridine-Catalyzed Methanolysis. 2020 , 11, 4621-4629	9

960	Nonisothermal crystallization kinetics of PLA/nanosized YVO ₄ composites as a novel nucleating agent. 2020 , 137, 48340	5
959	Plastic Waste: Environmental Hazards, Its Biodegradation, and Challenges. 2020 , 99-133	9
958	Recyclability of Natural Fiber-Filled Thermoplastic Composites. 2020 , 215-218	1
957	Cleaner Production Tools and Environmental Management Practices. 2020 , 153-245	
956	Drivers and Barriers to Cleaner Production. 2020 , 375-399	
955	Modification of acidic and textural properties of a sulphated zirconia catalyst for efficient conversion of high-density polyethylene into liquid fuel. 2020 , 27, 55-65	7
954	Preparation and characterization of blended edible films manufactured using gelatin, tragacanth gum and, Persian gum. 2020 , 117, 108617	43
953	Entrapment in plastic debris endangers hermit crabs. 2020 , 387, 121703	25
952	Experimental investigation to identify the type of waste plastic pyrolysis oil suitable for conversion to diesel engine fuel. 2020 , 246, 119066	82
951	Separation and recycling of polymeric post-industrial waste from adhesive bandages. 2020 , 17, 1877-1884	3
950	LCA Analysis of Grafted Tomato Seedling Production in Turkey. 2020 , 12, 25	3
949	Rediscovery of nylon upgraded by interactive biorenewable nano-fillers. 2020 , 12, 2393-2405	12
948	Recycling Poly(ethylene-vinyl acetate) with Improved Properties through Dynamic Cross-Linking. 2020 , 53, 458-464	15
947	Physical-mechanical properties of wood panel composites produced with Qualea sp. sawdust and recycled polypropylene. 2020 , 27, 4858-4865	3
946	Functions and impacts of plastic/rubber wastes as eco-friendly aggregate in concrete \square A review. 2020 , 240, 117869	60
945	Production of a NiO/Al primary battery employing powder-based electrodes. 2020 , 41, 131-136	4
944	Validation of near infrared spectroscopy as an age-prediction method for plastics. 2020 , 154, 104555	14
943	Repurposing poly(monothiocarbonate)s to poly(thioether)s with organic bases. 2020 , 11, 309-314	7

942	A systematic review of the deposit-refund system for beverage packaging: Operating mode, key parameter and development trend. 2020 , 251, 119660	29
941	Poly(propylene carbonate)/poly(3-hydroxybutyrate)-based bionanocomposites reinforced with cellulose nanocrystal for potential application as a packaging material. 2020 , 31, 853-863	9
940	Sustainable polymers from biomass: Bridging chemistry with materials and processing. 2020 , 101, 101197	90
939	A review of the potential utilisation of plastic waste as adsorbent for removal of hazardous priority contaminants from aqueous environments. 2020 , 258, 113698	31
938	Stocks and flows of polyvinyl chloride (PVC) in China: 1980-2050. 2020 , 154, 104584	40
937	Foaming at the mouth: Ingestion of floral foam microplastics by aquatic animals. 2020 , 705, 135826	15
936	The influence of manufacturing technology on the properties of layered composites with polyester/glass recycle additive. 2020 , 36, 18-30	4
935	Waste Polypropylene Plastic Recycling toward Climate Change Mitigation and Circular Economy: Energy, Environmental, and Technoeconomic Perspectives. 2020 , 8, 16350-16363	35
934	An energy efficient production of high moisture barrier nanocellulose/carboxymethyl cellulose films via spray-deposition technique. 2020 , 250, 116911	12
933	Recent advances in biocatalysts engineering for polyethylene terephthalate plastic waste green recycling. 2020 , 145, 106144	45
932	A Critical Review of SCWG in the Context of Available Gasification Technologies for Plastic Waste. 2020 , 10, 6307	13
931	Towards An Operating Model For Attribution In Circular Economy. 2020 ,	
930	Plastic wastes: environmental hazard and instrument for wealth creation in Nigeria. 2020 , 6, e05131	32
929	Surface modification of cellulose nanofiber film with fatty acids for developing renewable hydrophobic food packaging. 2020 , 26, 100587	13
928	A low-cost LIBS detection system combined with chemometrics for rapid identification of plastic waste. 2020 , 117, 48-57	11
927	Impact of heat drying on the physical and environmental characteristics of the nanocellulose-based films produced via spray deposition technique. 2020 , 27, 10225-10239	4
926	Catalytic upcycling of high-density polyethylene via a processive mechanism. 2020 , 3, 893-901	78
925	The Importance of Biofilms to the Fate and Effects of Microplastics. 2020 ,	1

924	Reviewing environmental life cycle impacts of biobased polymers: current trends and methodological challenges. 2020 , 25, 2169-2189	9
923	Plastics and sustainable purchase decisions in a circular economy: The case of Dutch food industry. 2020 , 15, e0239949	12
922	Oil from plastic via hydrothermal liquefaction: Production and characterization. 2020 , 278, 115673	26
921	Plastic litter pollution along sandy beaches in the Caribbean and Pacific coast of Colombia. 2020 , 267, 115495	22
920	The role of technological innovation in plastic production within a circular economy framework. 2020 , 163, 105094	20
919	Analysis of volatile compounds causing undesirable odors in a polypropylene - high-density polyethylene recycled plastic resin with solid-phase microextraction. 2020 , 260, 127589	8
918	A multi-criteria assessment of alternative sustainable solid waste management of flexible packaging. 2020 , 31, 201-222	7
917	Recycling and Reusing Polyethylene Waste as Antistatic and Electromagnetic Interference Shielding Materials. 2020 , 2020, 1-15	6
916	Asymmetric Open-Closed Dimer Mechanism of Polyhydroxyalkanoate Synthase PhaC. 2020 , 23, 101084	17
915	Analysis of barriers that impede the elimination of single-use plastic in developing economy context. 2020 , 272, 122629	8
914	Characteristics investigation on biofilm formation and biodegradation activities of strain ISJ14 colonizing low density polyethylene (LDPE) surface. 2020 , 6, e04398	13
913	Synergistic effects of organoclay Cloisite 15A on recycled polyethylene terephthalate. 2020 , 9, 13087-13096	2
912	Beat the plastic: an approach to polyethylene terephthalate (PET) bottle waste management in Nigeria. 2020 , 2, 313-320	4
911	Recycling waste plastics as hollow fiber substrates to improve the anti-wettability of supported ionic liquid membranes for CO ₂ separation. 2020 , 276, 124194	6
910	Sustainability of flexible multilayer packaging: Environmental impacts and recyclability of packaging for bacon in block. 2020 , 1, 100001	7
909	Mechanical Properties of Cement-Based Materials with Recycled Plastic: A Review. 2020 , 12, 9060	4
908	Ethyl Lactate Production from the Catalytic Depolymerisation of Post-consumer Poly(lactic acid). 2020 , 28, 2956-2964	6
907	Properties of wood composite plastics made from predominant Low Density Polyethylene (LDPE) plastics and their degradability in nature. 2020 , 15, e0236406	2

906	Chemical Conversion of Polymer Wastes into Motor Fuels and Petrochemical Raw Materials (A Review). 2020 , 60, 751-761	3
905	Transnational Plastics: An Australian Case for Global Action. 2020 , 8,	10
904	Pyrolysis of waste polypropylene plastics for energy recovery: Influence of heating rate and vacuum conditions on composition of fuel product. 2020 , 209, 106522	24
903	Use of plastic mulch in agriculture and strategies to mitigate the associated environmental concerns. 2020 , 164, 231-287	13
902	Plastics and microplastics, effects on marine coastal areas: a review. 2020 , 27, 39913-39922	6
901	Conversion of Waste Plastic to Oils for Tribological Applications. 2020 , 8, 78	9
900	Post-collection Separation of Plastic Waste: Better for the Environment and Lower Collection Costs?. 2020 , 77, 127-142	8
899	Thermoplastic corn starch reinforced with pine wood fibre and calcium carbonate precipitate filler. 2020 , 1527, 012042	2
898	Biodegradable plastics: Green hope or greenwashing?. 2020 , 161, 111774	16
897	Plastic pollution on the beaches of outer Ambon Bay. 2020 , 584, 012058	1
896	Postcollection Separation of Plastic Recycling and Design-For-Recycling as Solutions to Low Cost-Effectiveness and Plastic Debris. 2020 , 12, 8415	4
895	Flash Graphene from Plastic Waste. 2020 , 14, 15595-15604	42
894	Sustainable financing for municipal solid waste management in Nepal. 2020 , 15, e0231933	9
893	Unraveling the Role of Plastic Waste Pollution in the Amvrakikos Wetlands National Park, Greece: The Stakeholders' Views. 2020 , 8, 549	3
892	Green chemistry and the plastic pollution challenge: towards a circular economy. 2020 , 22, 6310-6322	74
891	Ring-Opening Polymerization of Cyclic Esters in an Aqueous Dispersion. 2020 , 53, 7767-7773	3
890	Biocatalytic recycling of polyethylene terephthalate plastic. 2020 , 378, 20190273	15
889	Biopolymers modulate microbial communities in municipal organic waste digestion. 2020 , 96,	5

888	Characterization of petroleum-based plastics and their absorbed trace metals from the sediments of the Marina Beach in Chennai, India. 2020 , 32,	12
887	Investigating Detection of Floating Plastic Litter from Space Using Sentinel-2 Imagery. 2020 , 12, 2648	30
886	Glycolysis of PET Using 1,3-Dimethylimidazolium-2-Carboxylate as an Organocatalyst. 2020 , 8, 13362-13368	21
885	Rapid and Nondestructive On-Site Classification Method for Consumer-Grade Plastics Based on Portable NIR Spectrometer and Machine Learning. 2020 , 2020, 1-8	7
884	Can plastic waste management be a novel solution in combating the novel Coronavirus (COVID-19)? A short research note. 2021 , 39, 910-913	4
883	Design of automatic recycling system Phase I. 2020 ,	
882	Plastic Bottle Cap Recycling Characterization of Recyclate Composition and Opportunities for Design for Circularity. 2020 , 12, 10378	6
881	Extending the concept of pro-environmental action and behaviour: a binary perspective. 2020 , 26, 1764-1786	1
880	Adsorption Thermodynamics and Kinetics of Resin for Metal Impurities in Bis(2-hydroxyethyl) Terephthalate. 2020 , 12,	0
879	PET-Bottled Water Consumption in View of a Circular Economy: The Case Study of Salento (South Italy). 2020 , 12, 7988	4
878	Twin Screw Extrusion for Recycling of Thermoplastics. 2020 ,	
877	The Marine Plastic Litter Issue: A Social-Economic Analysis. 2020 , 12, 8677	24
876	Development of thermal insulation sandwich panels containing end-of-life vehicle (ELV) headlamp and seat waste. 2020 , 118, 402-415	7
875	Mechanical and Thermal Properties of Interlocking Bricks Utilizing Wasted Polyethylene Terephthalate. 2020 , 14,	10
874	The Industrial World in the Twenty-First Century. 2020 , 613-648	1
873	Three Propositions to Unify Circular Economy Research: A Review. 2020 , 12, 4069	35
872	Influence of nonylphenol from multilayer plastic films on artificial insemination of sows. 2020 , 412, 6519-6528	3
871	Reactive Compression Molding Post-Inverse Vulcanization: A Method to Assemble, Recycle, and Repurpose Sulfur Polymers and Composites. 2020 , 26, 10035-10044	29

870	From Trash to Cash: How Blockchain and Multi-Sensor-Driven Artificial Intelligence Can Transform Circular Economy of Plastic Waste?. 2020 , 10, 23	40
869	Making visible, rendering obscure: reading the plastic crisis through contemporary artistic visual representations. 2020 , 3,	2
868	A review on VOCs from recycled plastics. 2020 , 25, e00179	14
867	Organocatalysis for versatile polymer degradation. 2020 , 22, 3721-3726	27
866	The use of nanoadditives within recycled polymers for food packaging: Properties, recyclability, and safety. 2020 , 19, 1760-1776	22
865	Conversion of polyethylene waste into clean fuels and waxes via hydrothermal processing (HTP). 2020 , 273, 117726	17
864	The Chemical Recycling of PLA: A Review. 2020 , 1, 1-22	42
863	Reconceptualizing Urbanism: Insights From Maya Cosmology. 2020 , 2,	6
862	Nano-plastics and their analytical characterisation and fate in the marine environment: From source to sea. 2020 , 732, 138792	51
861	Hybrid life cycle assessment of potato pulp valorisation in biocomposite production. 2020 , 269, 122366	6
860	Density and composition of surface and buried plastic debris in beaches of Senegal. 2020 , 737, 139633	13
859	Spoilt - Ocean Cleanup: Alternative logistics chains to accommodate plastic waste recycling: An economic evaluation. 2020 , 5, 100115	3
858	Recycling. 2020 , 143-164	
857	Sorption of five organic compounds by polar and nonpolar microplastics. 2020 , 257, 127206	30
856	Sustainable alternative to bisphenol A epoxy resin: high-performance recyclable epoxy vitrimers derived from protocatechuic acid. 2020 , 11, 4500-4506	34
855	Persistence in soil of microplastic films from ultra-thin compostable plastic bags and implications on soil <i>Aspergillus flavus</i> population. 2020 , 113, 312-318	18
854	Upcycling of HDPE Waste using Additive Manufacturing: Feasibility and Challenges. 2020 ,	2
853	Why is there plastic packaging in the natural environment? Understanding the roots of our individual plastic waste management behaviours. 2020 , 740, 139985	32

852	Life Cycle Assessment of Compostable Coffee Pods: A US University Based Case Study. 2020 , 10, 9158	5
851	PET Polymer Recycling. 2020 , 59, 2316-2318	4
850	Identification of Commercial Oxo-Biodegradable Plastics: Study of UV Induced Degradation in an Effort to Combat Plastic Waste Accumulation. 2020 , 28, 2364-2376	5
849	An overview of waste-to-energy: feedstocks, technologies and implementations. 2020 , 1-22	2
848	Fresh and hardened properties of concrete containing different forms of plastic waste - A review. 2020 , 113, 157-175	37
847	Experimental and statistical study of the effect of temperature and waste ratio on the mechanical properties and cost of polystyrene polypropylene plastic blends. 2020 , 6, e04166	3
846	Assessment of Plastic Stocks and Flows in China: 1978-2017. 2020 , 161, 104969	26
845	Recent Advances in Sustainable Plastic Upcycling and Biopolymers. 2020 , 15, e1900489	51
844	Accelerated Weathering and Soil Burial Effect on Biodegradability, Colour and Texture of Coir/Pineapple Leaf Fibres/PLA Biocomposites. 2020 , 12,	38
843	Utilization of Municipal Plastic and Wood Waste in Industrial Manufacturing of Wood Plastic Composites. 2020 , 11, 5419-5430	20
842	Mono- and dimeric zinc(II) complexes for PLA production and degradation into methyl lactate via chemical recycling method. 2020 , 11, 2381-2389	17
841	Narrowing the Gap for Bioplastic Use in Food Packaging: An Update. 2020 , 54, 4712-4732	79
840	Legacy additives in a circular economy of plastics: Current dilemma, policy analysis, and emerging countermeasures. 2020 , 158, 104800	55
839	Controlled Polymerization of Epinadiene: Accessing Unusual Polymer Architectures with Biomass-Derived Monomers. 2020 , 9, 595-599	11
838	Thermoplastic Recycling: Properties, Modifications, and Applications. 2020 ,	2
837	Recycling of Bioplastics: Routes and Benefits. 2020 , 28, 2551-2571	86
836	Development of a new compound based on low-density polyethylene degraded with zeolite waste for the removal of diesel from water. 2020 , 271, 110939	3
835	In vitro chemical and physical toxicities of polystyrene microfragments in human-derived cells. 2020 , 400, 123308	35

834	Digitalization boosted recycling: Gamification as an inspiration for young adults to do enhanced waste sorting. 2020 ,	9
833	Material Science and Chemistry. 2020 , 43-160	
832	Suppliers and Manufacturers of Packaging. 2020 , 367-473	
831	Catalytic chemical recycling of biodegradable polyesters. 2020 , 179, 109241	26
830	Novel trends in the thermo-chemical recycling of plastics from WEEE containing brominated flame retardants. 2021 , 28, 59190-59213	11
829	Building a circular plastics economy with informal waste pickers: Recyclate quality, business model, and societal impacts. 2020 , 156, 104685	35
828	Investigations on the aging behavior of transparent bioplastics for optical applications. 2020 , 2, 424-433	6
827	Recovery of copper and aluminium from coaxial cable wastes using comparative mechanical processes analysis. 2021 , 42, 3205-3217	3
826	Kinetic Investigation on the Cationic Polymerization of o-Phthalaldehyde: Understanding Ring-Expansion Polymerization. 2020 , 53, 1543-1549	3
825	Materiality of Edible Film Packaging in Muscle Foods: A Worthwhile Conception. 2020 , 4, 117-132	15
824	The effect of waste incineration taxation on industrial plastic waste generation: A panel analysis. 2020 , 157, 104717	23
823	Polyester-based biodegradable plastics: an approach towards sustainable development. 2020 , 70, 413-430	35
822	Plastics in municipal drinking water and wastewater treatment plant effluents: challenges and opportunities for South Africa-a review. 2020 , 27, 12953-12966	12
821	A comprehensive assessment of microbiome diversity in <i>Tenebrio molitor</i> fed with polystyrene waste. 2020 , 262, 114281	30
820	Reinforcement of rubber nanocomposite thin sheets by percolation of pristine cellulose nanocrystals. 2020 , 152, 428-436	29
819	Impacts of nanoplastics on bivalve: Fluorescence tracing of organ accumulation, oxidative stress and damage. 2020 , 392, 122418	45
818	Occurrence, Fate and Fluxes of Plastics and Microplastics in Terrestrial and Freshwater Ecosystems. 2020 , 250, 1-43	9
817	Factors for eliminating plastic in packaging: The European FMCG experts' view. 2020 , 256, 120492	17

816	Combining Organic and Inorganic Wastes to Form Metal-Organic Frameworks. 2020 , 13,	6
815	The impact of government incentives and penalties on willingness to recycle plastic waste: An evolutionary game theory perspective. 2020 , 14, 1	22
814	Advanced Recovery Techniques for Waste Materials from IT and Telecommunication Equipment Printed Circuit Boards. 2020 , 12, 74	21
813	PET Recycling [Contributions of Crystallization to Sustainability. 2020 , 92, 452-458	17
812	Repeated-oral dose toxicity of polyethylene microplastics and the possible implications on reproduction and development of the next generation. 2020 , 324, 75-85	39
811	Thermal degradation of waste plastics under non-sweeping atmosphere: Part 2: Effect of process temperature on product characteristics and their future applications. 2020 , 261, 110112	17
810	Resource recycle efficiency improvement analysis for sharing bicycles: Value chain perspective. 2020 , 255, 120284	6
809	Thermal and catalytic decomposition of waste plastics and its co-processing with petroleum residue through pyrolysis process. 2020 , 265, 121639	48
808	UV Pretreatment Impairs the Enzymatic Degradation of Polyethylene Terephthalate. 2020 , 11, 689	21
807	Hydrogenative Depolymerization of End-of-Life Poly(bisphenol A carbonate) with in situ Generated Ruthenium Catalysts. 2020 , 5, 4231-4234	5
806	Important Step in Sustainability: Polyethylene Terephthalate Recycling and the Recent Developments. 2020 , 1-19	9
805	Model-based operational optimisation of a microbial bioprocess converting terephthalic acid to biomass. 2020 , 158, 107576	4
804	Facile synthesis of a Cu-based metal-organic framework from plastic waste and its application as a sensor for acetone. 2020 , 263, 121492	15
803	Spatial distribution of microplastic in the surface waters along the coast of Korea. 2020 , 155, 110729	19
802	A review of bio-degradable materials for fused deposition modeling machine. 2020 , 27, 1596-1600	10
801	Transparent lignin-containing wood nanofiber films with UV-blocking, oxygen barrier, and anti-microbial properties. 2020 , 8, 7935-7946	46
800	First evidence of microplastics bioaccumulation by marine organisms in the Port Blair Bay, Andaman Islands. 2020 , 155, 111163	39
799	Plastic Debris in the Marine Environment: History and Future Challenges. 2020 , 4, 1900081	45

798	Recent Advances in Bioplastics: Application and Biodegradation. 2020 , 12,	91
797	From cheap ethane to a plastic planet: Regulating an industrial global production network. 2020 , 66, 101479	8
796	Plastic recycling in additive manufacturing: A systematic literature review and opportunities for the circular economy. 2020 , 264, 121602	82
795	Distribution characteristics and mechanism of microplastics mediated by soil physicochemical properties. 2020 , 726, 138389	36
794	Life-Cycle Assessment of Recycling Postconsumer High-Density Polyethylene and Polyethylene Terephthalate. 2020 , 2020, 1-15	8
793	Current options for characterizing, sorting, and recycling polymeric waste. 2020 , 36, 284-303	25
792	Plastic waste in a circular economy. 2020 , 481-512	15
791	Mycelium Materials. 2021 , 710-718	4
790	The effect of process and structural parameters on the stability, thermo-mechanical and thermal degradation of polymers with hydrocarbon skeleton containing PE, PP, PS, PVC, NR, PBR and SBR. 2021 , 143, 2867-2882	20
789	Thermo-catalytic pyrolysis of polystyrene in batch and semi-batch reactors: A comparative study. 2021 , 39, 260-269	6
788	Performance of Lightweight Aggregates Comprised of Sediments and Thermoplastic Waste. 2021 , 12, 515-530	2
787	Towards Ecological Management: Identifying Barriers and Opportunities in Transition from Linear to Circular Economy. 2021 , 20, 5-19	10
786	Optimization of Supports in Bifunctional Supported Pt Catalysts for Polystyrene Hydrocracking to Liquid Fuels. 2021 , 64, 224-242	2
785	Production of exopolymer substances from the thermophilic chlorophyte <i>Graesiella</i> : industrial and ecological applications. 2021 , 33, 343-356	2
784	A thermogravimetric study of HDPE conversion under a reductive atmosphere. 2021 , 379, 192-204	5
783	Challenges and strategies for effective plastic waste management during and post COVID-19 pandemic. 2021 , 750, 141514	221
782	Waste materials in highway applications: An overview on generation and utilization implications on sustainability. 2021 , 283, 124581	20
781	Conversion and removal strategies for microplastics in wastewater treatment plants and landfills. 2021 , 406, 126715	53

780	Tertiary and quaternary recycling of thermoplastics by additive manufacturing approach for thermal sustainability. 2021 , 37, 2382-2386	8
779	A Cu doped TiO ₂ catalyst mediated Catalytic Thermo Liquefaction (CTL) of polyolefinic plastic waste into hydrocarbon oil. 2021 , 285, 119155	4
778	Microplastics in freshwater ecosystems: a recent review of occurrence, analysis, potential impacts, and research needs. 2021 , 28, 1341-1356	20
777	It's the product not the polymer: Rethinking plastic pollution. 2021 , 8, e1490	3
776	Contribution of compatibilizer backbone to degradation and retained functionality of multiple extruded polypropylene/poly(ethylene terephthalate) blends. 2021 , 138, 50044	2
775	Performance of Sisal/Hemp Bio-based Epoxy Composites Under Accelerated Weathering. 2021 , 29, 624-636	18
774	Dimensional stability and deformation analysis under mechanical loading of recycled PET-wood laminated composites with digital image correlation. 2021 , 280, 124472	7
773	Assessment of the environmental break-even point for deposit return systems through an LCA analysis of single-use and reusable cups. 2021 , 27, 228-241	14
772	Current scenario and challenges in using plastic wastes as oil absorbents. 2021 , 9, 104822	1
771	Ultrasonic Degradation of Polystyrene for Tailoring Molecular Weight and Polydispersity of Polystyrene Fragments . 2021 , 93, 289-296	
770	Recommended best practices for collecting, analyzing, and reporting microplastics in environmental media: Lessons learned from comprehensive monitoring of San Francisco Bay. 2021 , 409, 124770	26
769	Achieving negative emissions in plastics life cycles through the conversion of biomass feedstock. 2021 , 15, 430-453	5
768	Challenges and possible solutions to mitigate the problems of single-use plastics used for packaging food items: a review. 2021 , 58, 3251-3269	12
767	Upcycling of plastic waste into fluorescent carbon dots: An environmentally viable transformation to biocompatible C-dots with potential prospective in analytical applications. 2021 , 120, 675-686	21
766	A Review on the Applicability of Life Cycle Assessment to Evaluate the Technical and Environmental Properties of Waste Electrical and Electronic Equipment. 2021 , 29, 1333-1349	6
765	Sorption as a rapidly response for oil spill accidents: A material and mechanistic approach. 2021 , 407, 124842	21
764	The occurrence and transport of microplastics: The state of the science. 2021 , 758, 143936	48
763	Recent review of tribology, rheology of biodegradable and FDM compatible polymers. 2021 , 39, 781-788	9

762	Catalytic pyrolysis of polyolefin and multilayer packaging based waste plastics: A pilot scale study. 2021 , 149, 497-506	12
761	Microplastic pollution in neotropical rainforest, savanna, pine plantations, and pasture soils in lowland areas of Oaxaca, Mexico: Preliminary results. 2021 , 121, 107084	12
760	Development of multi-walled carbon nanotubes obtained from recycled plastics by single stage pyrolysis process. 2021 , 38, 1170-1173	0
759	End-of-life and waste management of disposable beverage cups. 2021 , 763, 143044	2
758	Network analysis of international trade in plastic scrap. 2021 , 27, 203-216	13
757	Material efficiency and climate change mitigation of passenger vehicles. 2021 , 25, 494-510	11
756	Tertiary recycling of plastics waste: an analysis of feedstock, chemical and biological degradation methods. 2021 , 23, 32-43	24
755	3D printing filament as a second life of waste plastics-a review. 2021 , 28, 12321-12333	48
754	Turning Plastic Wastes Into Textile Products. 2021 , 1-27	1
753	Plastic recycling and regeneration. 2021 , 339-365	1
752	Bioprospecting of gut microflora for plastic biodegradation. 2021 , 12, 1040-1053	7
751	Advantages of biopolymers over synthetic polymers: social, economic, and environmental aspects. 2021 , 351-372	10
750	Processing of bio-based polymers for industrial and medical applications. 2021 , 191-238	
749	Assessment of Bacterial Load in Polyethylene Terephthalate (PET) Bottled Water Marketed in Kathmandu Valley, Nepal. 2021 , 2021, 1-10	1
748	Advanced applications of green materials in agriculture. 2021 , 193-222	1
747	Bioplastic Matrices for Sustainable Agricultural and Horticultural Applications. 2021 , 399-429	
746	Conventional Plastics' Harmful Effects and Biological and Molecular Strategies for Biodegradable Plastics' Production. 2021 , 9, 242-254	1
745	Production of recycled EPS fibers by centrifugal spinning. 2021 , 26,	2

744	Poly(propylene vanillate): A Sustainable Lignin-Based Semicrystalline Engineering Polyester. 2021 , 9, 1383-1397	7
743	Fully Recyclable Polycarbonates from Simple, Bio-Derived Building Blocks. 2021 , 3, 730-736	2
742	Population's willingness to separate collection of plastic waste in Russian city. 2021 , 258, 08001	
741	Sustainable Waste Management of Engineering Plastics Generated from E-Waste: A Critical Evaluation of Mechanical, Thermal and Morphological Properties. 2021 , 29, 1763-1776	7
740	Investigation of performance and emission characteristics of single-cylinder DI diesel engine with plastic pyrolysis oil and diethyl ether blends. 1-5	3
739	Polyhydroxyalkanoates: naturally occurring microbial polymers suitable for nanotechnology applications. 2021 , 3-20	1
738	Poly(lactic acid) (PLA) and polyhydroxyalkanoates (PHAs), green alternatives to petroleum-based plastics: a review.. 2021 , 11, 17151-17196	56
737	Mitigating greenhouse gas emissions of municipal solid waste management system: case study of Chengdu, China. 2021 , 23, 812-825	1
736	Investigations into the Development of a Mycelium Biocomposite to Substitute Polystyrene in Packaging Applications. 2021 , 46, 2975-2984	8
735	Improving the Tensile and Tear Properties of Thermoplastic Starch/Dolomite Biocomposite Film through Sonication Process. 2021 , 13,	8
734	Economic and Environmental Aspects of Synthetic Rubber Production Waste Processing. 2021 , 581-587	
733	Analysis of costBenefit in life-cycle of plastic solid waste: combining waste flow analysis and life cycle cost as a decision support tool to the selection of optimum scenario. 2021 , 23, 13242-13260	3
732	Switching to Bioplastics for Sustaining our Environment. 2021 , 1-45	
731	Potential of petrochemicals from lignin. 2021 , 147-171	3
730	Mushroom Mycelia-Based Material: An Environmental Friendly Alternative to Synthetic Packaging. 2021 , 131-141	5
729	Role of polyoxometalates in converting plastic waste into fuel oil. 2021 , 333-355	1
728	You can't manage what you can't measure: The potential for circularity in Grenada's waste management system. 2021 , 164, 105170	12
727	The sustainable cycle of a new cacao-based bioplastic: from manufacturing to exploitable biodegradation products.. 2021 , 11, 29976-29985	1

726	Self-Healing Polymer Nanocomposite Materials by Joule Effect. 2021 , 13,	14
725	The Development of Efficient Contaminated Polymer Materials Shredding in Recycling Processes. 2021 , 13,	5
724	Drivers of single-use plastic waste generation: lessons from packaged water consumers in Ghana. 1	1
723	Comprehensive study of recycling of thermosetting polymer composites (Driving force, challenges and methods. 2021 , 207, 108596	17
722	Improvement in mechanical properties of recycled polypropylene composite by controlling the length distribution of glass fibers. 2021 , 42, 2171-2179	3
721	Towards Sustainable Concrete Composites through Waste Valorisation of Plastic Food Trays as Low-Cost Fibrous Materials. 2021 , 13, 2073	10
720	An Overview of Plastic Waste Generation and Management in Food Packaging Industries. 2021 , 6, 12	49
719	Polymeric composite materials for radiation shielding: a review. 2021 , 19, 1-34	43
718	Boosting Highly Ordered Porosity in Lanthanum Metal-Organic Frameworks for Ring-Opening Polymerization of ϵ -Butyrolactone. 2021 , 7, 463-479	8
717	Marine bacterial biodegradation of low-density polyethylene (LDPE) plastic. 2021 , 32, 127-143	14
716	A systematic scoping review of environmental, food security and health impacts of food system plastics. 2021 , 2, 80-87	22
715	Non-thermal plasma-assisted hydrogenolysis of polyethylene to light hydrocarbons. 2021 , 150, 106274	14
714	Indigenous development of single screw conveying machine for pyrolysis of waste plastics using nano zeolite particles in fixed bed reactor. 1-13	1
713	Optical Properties Improvement of Recycled Polypropylene with Material Value Conservation Schemes Using Virgin Plastic Blends. 1020, 199-205	1
712	Plastic recycling in a circular economy; determining environmental performance through an LCA matrix model approach. 2021 , 121, 331-342	49
711	Influence of repeated recycling on the quality of molded finished products. 1	1
710	Mechanical Property Assessment of Interlocking Plastic Pavers Manufactured from Electronic Industry Waste in Brazil. 2021 , 6, 15	0
709	Plastic credit: A consortium blockchain-based plastic recyclability system. 2021 , 121, 42-51	9

708	Upcycling of polypropylene with various concentrations of peroxydicarbonate and dilauroyl peroxide and two processing steps. 2021 , 138, 50659	2
707	Energy Potential of Plastic Waste Valorization: A Short Comparative Assessment of Pyrolysis versus Gasification. 2021 , 35, 3558-3571	13
706	Full Circle Recycling of Polysiloxanes via Room-Temperature Fluoride-Catalyzed Depolymerization to Repolymerizable Cyclics. 2021 , 3, 1828-1839	6
705	A novel acrylic acid-Schizochytrium sp. bio-based polymer: Design, synthesis, and properties. 2021 , 26, 102029	2
704	The plastic waste problem in Malaysia: management, recycling and disposal of local and global plastic waste. 2021 , 3, 1	34
703	General Aspects. 2021 , 1-63	
702	Degradation of Plastics in Simulated Landfill Conditions. 2021 , 13,	7
701	Operating modes and cost burdens for the European deposit-refund systems: A systematic approach for their analysis and design. 2021 , 288, 125600	5
700	Development of flame-retardant waterborne polyurethane dispersions (WPUDs) from sulfonated phosphorus-based reactive water-dispersible agents. 2021 , 18, 1037-1049	1
699	A Review on Utilization of Plastic Wastes in Making Construction Bricks. 2021 , 706, 012001	1
698	Valorisation of plastic waste via metal-catalysed depolymerisation. 2021 , 17, 589-621	6
697	Optimization of combined mixture and process variables for the pyrolysis oil yield from co-pyrolysis of polymeric wastes. 2021 , 30, 83-99	1
696	Effects of a Twin-Screw Extruder Equipped with a Molten Resin Reservoir on the Mechanical Properties and Microstructure of Recycled Waste Plastic Polyethylene Pellet Moldings. 2021 , 13,	2
695	Characterization and Impact of Waste Plastic Oil in a Variable Compression Ratio Diesel Engine. 2021 , 14, 2230	5
694	Trends in Polymer Development: Effects and Consolidation Processes. 2021 , 1107, 012108	
693	Nanotechnology Applications in Synthesis Of Bioplastic. 2021 , 1107, 012190	
692	Developments in the life cycle assessment of chemical recycling of plastic waste A review. 2021 , 293, 126163	38
691	Recycling of polymer blends. 2021 , 4, 53-69	6

690	Roadmap to Biodegradable Plastics Current State and Research Needs. 2021 , 9, 6170-6187	30
689	Conversion of Waste Plastics into Value-Added Carbonaceous Fuels under Mild Conditions. 2021 , e2005192	19
688	Collaborations for circular food packaging: The set-up and partner selection process. 2021 , 26, 733-740	9
687	Hygienic Evaluation of Working Conditions of the Process of Mechanical Processing of PET Bottle. 2021 , 6, 133-138	
686	Assessment of municipal solid waste management system in Lae City, Papua New Guinea in the context of sustainable development. 2021 , 1-31	6
685	Quantitative analysis of residential plastic recycling in New York City. 2021 , 39, 703-712	0
684	Treating and reusing wastewater generated by the washing operations in the non-hazardous plastic solid waste recycling process: Advanced method vs. conventional method. 2021 , 284, 112011	6
683	Plant-Origin Stabilizer as an Alternative of Natural Additive to Polymers Used in Packaging Materials. 2021 , 22,	2
682	Single and bulk identification of plastics in the recycling chain using Chipless RFID tags. 2021 ,	1
681	Dynamic flows of polyethylene terephthalate (PET) plastic in China. 2021 , 124, 273-282	11
680	Environmental and economic implications of U.S. postconsumer plastic waste management. 2021 , 167, 105391	7
679	Algae biopolymer towards sustainable circular economy. 2021 , 325, 124702	59
678	Integrated User-Oriented Service for 3D Printing Environments with Recycled Material from Maritime Plastic Waste. 2021 , 11, 3787	2
677	An ecotoxicological approach to microplastics on terrestrial and aquatic organisms: A systematic review in assessment, monitoring and biological impact. 2021 , 84, 103615	15
676	Open Source Filament Diameter Sensor for Recycling, Winding, and Additive Manufacturing Machines. 2021 , 143,	1
675	Microplastics occurrence in the commercial Southeast Asian seafood and its impact on food safety and security: A review. 2021 , 756, 012008	
674	Systems Analysis Approach to Polyethylene Terephthalate and Olefin Plastics Supply Chains in the Circular Economy: A Review of Data Sets and Models. 2021 , 9, 7403-7421	9
673	Catalytic pyrolysis of recycled HDPE, LDPE, and PP. 147776062110194	1

672	Expanding Policy for Biodegradable Plastic Products and Market Dynamics of Bio-Based Plastics: Challenges and Opportunities. 2021 , 13, 6170	17
671	Optimization of Extrusion-Based 3D Printing Process Using Neural Networks for Sustainable Development. 2021 , 14,	5
670	Air gasification of polyethylene terephthalate using a two-stage gasifier with active carbon for the production of H ₂ and CO. 2021 , 223, 120122	5
669	Advances in Ultra-Trace Analytical Capability for Micro/Nanoplastics and Water-Soluble Polymers in the Environment: Fresh Falling Urban Snow. 2021 , 276, 116698	7
668	Sustainable approach to produce 3D-printed continuous carbon fiber composites: A comparison of virgin and recycled PETG. 2021 , 42, 4253-4264	3
667	Strategic Possibility Routes of Recycled PET. 2021 , 13,	22
666	Recycling of post-consumer plastic packaging waste in the EU: Recovery rates, material flows, and barriers. 2021 , 126, 694-705	26
665	The Chemical Recycling of Polyesters for a Circular Plastics Economy: Challenges and Emerging Opportunities. 2021 , 14, 4041-4070	40
664	A Preliminary Study on Microplastic Occurrences in Surface Waters of Ousudu Lake, Pondicherry, India.. 35-48	
663	Environmentally friendly polymeric films based on biocarbon, synthetic zeolite and PVP for agricultural chemistry. 1	0
662	Zooming in on Polymer Chemistry and Designing Synthesis of High Sulfur-Content Polymers for Virtual Undergraduate Laboratory Experiment. 2021 , 98, 2062-2073	6
661	Inspired by nature: Microbial production, degradation and valorization of biodegradable bioplastics for life-cycle-engineered products. 2021 , 53, 107772	10
660	A Roadmap for Environmental Sustainability of Plastic Use in Anesthesia and the Perioperative Arena. 2021 , 135, 729-737	0
659	Experimental investigation on bending strength of compacted plastic-concrete. 2021 , 169, 105521	4
658	Plastic end-of-life alternatives, with a focus on the agricultural sector. 2021 , 32, 100681	3
657	Life Cycle Assessment of Bioplastics and Food Waste Disposal Methods. 2021 , 13, 6894	4
656	Vapor- liquid equilibrium for the n-dodecane + phenol and n-hexadecane + phenol systems at 523 K and 573 K. 2021 , 537, 112991	3
655	Recycling and rheology of poly(lactic acid) (PLA) to make foams using supercritical fluid. 2021 , 33, 067119	3

654	Mechanistic aspects of poly(ethylene terephthalate) recycling-toward enabling high quality sustainability decisions in waste management. 2021 , 28, 43074-43101	3
653	Current Progress on Marine Microplastics Pollution Research: A Review on Pollution Occurrence, Detection, and Environmental Effects. 2021 , 13, 1713	4
652	PAH and POP Presence in Plastic Waste and Recyclates: State of the Art. 2021 , 14, 3451	4
651	Low-pressure hydrothermal processing of mixed polyolefin wastes into clean fuels. 2021 , 294, 120505	3
650	Potential Uses of Musaceae Wastes: Case of Application in the Development of Bio-Based Composites. 2021 , 13,	1
649	Sustainable Green Lightweight Concrete Containing Plastic-Based Green Lightweight Aggregate. 2021 , 14,	1
648	Circular Materials and Circular Design-Review on Challenges Towards Sustainable Manufacturing and Recycling. 2021 , 1-15	8
647	Forecasting of Non-Carcinogenic Risk for Population Health from Manufacturing of Mechanical Processing of Secondary Polymers. 2021 , 6, 212-219	
646	An experimental study and sustainability assessment of plastic waste as a binding material for producing economical cement-less paver blocks. 2021 , 26, 101008-101008	3
645	Perspectives on sustainable food packaging: Is bio-based plastics a solution?. 2021 , 112, 839-846	23
644	Advantages and Disadvantages of Bioplastics Production from Starch and Lignocellulosic Components. 2021 , 13,	21
643	Highlights from a review of microplastics in marine sediments. 2021 , 777, 146225	10
642	Sustainability governance and contested plastic food packaging [An integrative review. 2021 , 306, 127111	19
641	Thermo-mechanical variability of post-industrial and post-consumer recycle PC-ABS. 2021 , 99, 107216	3
640	A framework for assessing the circularity and technological maturity of plastic waste management strategies in hospitals. 2021 , 306, 127169	9
639	Plastic-based sustainable synthetic aggregate in Green Lightweight concrete [A review. 2021 , 292, 123321	5
638	Plastic Recovery and Utilization: From Ocean Pollution to Green Economy. 2021 , 9,	2
637	Improvement of Subgrade Characteristics Using Waste Plastic Bottle. 2021 , 2, 1-7	

636	Synergistic effect of UV, thermal, and chemical treatment on biological degradation of low-density polyethylene (LDPE) by <i>Thermomyces lanuginosus</i> . 2021 , 193, 513	1
635	Plastics in regurgitated Flesh-footed Shearwater (<i>Ardenna carneipes</i>) boluses as a monitoring tool. 2021 , 168, 112428	1
634	Synthetic Biopolymers and Their Composites: Advantages and Limitations-An Overview. 2021 , 42, e2100130	26
633	Toward polymer upcycling-adding value and tackling circularity. 2021 , 373, 66-69	61
632	Vitrimers: Current research trends and their emerging applications. 2021 ,	19
631	Circular economy in biocomposite development: State-of-the-art, challenges and emerging trends. 2021 , 5, 100138	21
630	Preparation and Properties of Wood Plastic Composites with Desirable Features Using Poplar and Five Recyclable Plastic Wastes. 2021 , 11, 6838	1
629	Biodegradable Packaging Materials from Animal Processing Co-Products and Wastes: An Overview. 2021 , 13,	6
628	Plastic additive oleamide elicits hyperactivity in hermit crabs. 2021 , 169, 112533	3
627	Separation of virgin plastic polymers and post-consumer mixed plastic waste by sinking-flotation technique. 2021 , 1	1
626	Single-Use Plastic Bans: Exploring Stakeholder Perspectives on Best Practices for Reducing Plastic Pollution. 2021 , 8, 81	2
625	Mapping and Visualizing Research Output on Global Solid Waste Management: A Bibliometric Review of Literature. 1-29	2
624	An Evaluation of Recycled Polymeric Materials Usage in Denim with Lifecycle Assessment Methodology.	
623	Circulatory Management of Polymer Waste: Recycling into Fine Fibers and Their Applications. 2021 , 14,	4
622	Bioplastics advances and their role in the management of plastic pollution. 229-240	
621	Reusing plastic waste in the production of bricks and paving blocks: a review. 1-34	1
620	Utilisation of plastic waste as aggregate in construction materials: A review. 2021 , 296, 123669	15
619	Materials of biological origin and biofuels: Small environmental footprint and epigenetic impact (Review). 2021 , 1,	0

618	Eugenol, a Promising Building Block for Biobased Polymers with Cutting-Edge Properties. 2021 , 22, 3625-3648	7
617	Plastic debris increases circadian temperature extremes in beach sediments. 2021 , 416, 126140	6
616	Why is Recycling of Postconsumer Plastics so Challenging?. 2021 , 3, 4325-4346	26
615	Impacts and mitigation measures of plastic waste: A critical review. 2021 , 90, 106642	7
614	From outbreak of COVID-19 to launching of vaccination drive: invigorating single-use plastics, mitigation strategies, and way forward. 2021 , 28, 55811-55845	8
613	Environmental impact of bioplastic use: A review. 2021 , 7, e07918	26
612	Microplastics reduce net population growth and fecal pellet sinking rates for the marine copepod, <i>Acartia tonsa</i> . 2021 , 284, 117379	6
611	How COVID-19 Could Change the Economics of the Plastic Recycling Sector. 2021 , 6, 64	1
610	A sustainable approach towards utilization of plastic waste for an efficient electrode in microbial fuel cell applications. 2021 , 417, 125992	10
609	Fabrication of recyclable nucleating agent and its effect on crystallization, gas barrier, thermal, and mechanical performance of Poly(-lactide). 2021 , 231, 124121	4
608	Accuracy improvement in plastics classification by laser-induced breakdown spectroscopy based on a residual network. 2021 , 29, 33269-33280	2
607	Comparative study of mechanical properties between irradiated and regular plastic waste as a replacement of cement and fine aggregate for manufacturing of green concrete. 2021 , 13, 101563-101563	5
606	Assessment of plastic waste generation and its feasibility for establishment of plastic waste refinery. 2021 , 14, 1	1
605	New bio-based sustainable polymers and polymer composites based on methacrylate derivatives of furfural, solketal and lactic acid. 2021 , 28, 102721	4
604	Mechanical Properties of Composite Materials from Waste Poly(ethylene terephthalate) Reinforced with Glass Fibers and Waste Window Glass. 2021 , 2021, 1-14	4
603	Tackling the Circular Economy Challenges Composites Recycling: Used Tyres, Wind Turbine Blades, and Solar Panels. 2021 , 5, 243	12
602	Circular Economy of Plastics: Wishful Thinking or A Way Forward?. 1	
601	Grafting of poly(ϵ -caprolactone) from Abaca cellulose fibers via ring-opening polymerization resulting in facile one-pot biocomposites. 2021 , 2, 297	2

600	Zn(II)- and Mg(II)-Complexes of a Tridentate {ONN} Ligand: Application to Poly(lactic acid) Production and Chemical Upcycling of Polyesters. 2021 , 54, 8453-8469	3
599	Syngas production from polyolefins in a semi-batch reactor system. 2021 , 67, e17479	1
598	Utilization of Plastic Wastes for Sustainable Environmental Management: A Review. 2021 , 14, 3985-4006	5
597	Retreatment of Polymer Wastes by Disintegrator Milling.	
596	Sustainable Polymers from Recycled Waste Plastics and Their Virgin Counterparts as Bitumen Modifiers: A Comprehensive Review. 2021 , 13,	6
595	Application of Waste Plastic Films in Road Infrastructure and Construction. 2021 , 2,	1
594	Advances in barrier coatings and film technologies for achieving sustainable packaging of food products [A review]. 2021 , 115, 461-485	20
593	Monitoring aquaculture fisheries using Sentinel -2 images by identifying plastic fishery rings. 2021 ,	
592	Characterization of 3D Printing on Jute Fabrics. 2021 , 13,	4
591	Overview of polyvinyl chloride (PVC) waste management practices in the Nordic countries. 2021 , 4, 100246	3
590	Production of poly-hydroxy-butyrate using nitrogen removing methanotrophic mixed culture bioreactor. 2021 , 132, 351-358	
589	Prospective evaluation of circular economy practices within plastic packaging value chain through optimization of life cycle impacts and circularity. 2021 , 173, 105691	8
588	The paradigm in conversion of plastic waste into value added materials. 2021 , 4, 100254	3
587	Choose to reuse! The effect of action-close reminders on pro-environmental behavior. 2021 , 110, 102539	1
586	Particle trajectory model for tribo-electrostatic separating mixed granular plastics. 2021 , 4, 100219	
585	Key ingredients and recycling strategy of personal protective equipment (PPE): Towards sustainable solution for the COVID-19 like pandemics. 2021 , 9, 106284	9
584	Synergistic effects of CO on complete thermal degradation of plastic waste mixture through a catalytic pyrolysis platform: A case study of disposable diaper. 2021 , 419, 126537	4
583	Additive manufacturing-based recycling of laboratory waste into energy harvesting device for self-powered applications. 2021 , 88, 106255	21

582	Preparation and properties of renewable polyesters based on lignin-derived bisphenol. 2021 , 233, 124202	1
581	State of the art in recycling waste thermoplastics and thermosets and their applications in construction. 2021 , 174, 105776	13
580	Life cycle assessment of plastic waste end-of-life for India and Indonesia. 2021 , 174, 105774	6
579	Strong, ductile and biodegradable polylactic acid/lignin-containing cellulose nanofibril composites with improved thermal and barrier properties. 2021 , 171, 113898	8
578	Occurrence, distribution and affecting factors of microplastics in agricultural soils along the lower reaches of Yangtze River, China. 2021 , 794, 148694	22
577	Legislation to limit the environmental plastic and microplastic pollution and their influence on human exposure. 2021 , 288, 117708	10
576	Applying confocal Raman spectroscopy and different linear multivariate analyses to sort polyethylene residues. 2021 , 426, 131344	5
575	Performance modifying techniques for recycled thermoplastics. 2021 , 175, 105887	4
574	Using ATR-FTIR spectra and convolutional neural networks for characterizing mixed plastic waste. 2021 , 155, 107547	1
573	Sustainable biocomposite development using halloysite nanotubes and polylactic acid. 2022 , 245-264	
572	Circular materials An essay on challenges with current manufacturing and recycling strategies as well as on the potential of life cycle integrated designs. 2022 , 359-372	1
571	Complete digestion/biodegradation of polystyrene microplastics by greater wax moth (<i>Galleria mellonella</i>) larvae: Direct in vivo evidence, gut microbiota independence, and potential metabolic pathways. 2022 , 423, 127213	3
570	Practicing Circular Economy in India. 2022 , 179-196	
569	Recovery and Recycling of Polymeric and Plastic Materials. 2021 , 15-41	
568	Recycled Thermoplastics: Textile Fiber Production, Scientific and Recent Commercial Developments. 2021 , 169-192	2
567	Community Waste Plastic Recycling System Through Plastic Injection Molding. 2021 , 335, 03009	0
566	The Use of Eco-friendly Recycled Polymer Composites in Boat Building. 2021 , 3707-3732	
565	Second Life of Polymeric-Based Materials: Strategies and Performance. 2021 , 1743-1757	

- 564 Polycarbonate Plastics and Neurological Disorders: From Exposure to Preventive Interventions. **2021**, 147-183
- 563 Disposal and recycling of plastics. **2021**, 46, 7875-7880 1
- 562 Thermosetting Polymers: A Review on Primary, Secondary, Tertiary and Quaternary Recycling. **2021**,
- 561 Current Technologies in Depolymerization Process and the Road Ahead. **2021**, 13, 24
- 560 Online media reveals a global problem of discarded containers as deadly traps for animals. **2021**, 11, 267 5
- 559 Recycling of used alginate impression materials into final polishing powder for methacrylate denture base resins. **2021**, 21, 1-6
- 558 Research of Kinetics of Cracking of Wastes of Synthetic Rubber by Pyrolytic Gas Chromatography. **2021**, 1051-1057
- 557 Engineering Strategies for Efficient and Sustainable Production of Medium-Chain Length Polyhydroxyalkanoates in Pseudomonads. **2021**, 581-660
- 556 Biodegradability and property assessment of different categorized polymeric films. **2021**, 43, 2014-2024 1
- 555 H-USY and H-ZSM-5 zeolites as catalysts for HDPE conversion under a hydrogen reductive atmosphere. **2021**, 5, 1134-1147 3
- 554 Plastic Product Life Cycle Assessment. **2021**,
- 553 Protein-Based Bioplastics from Biowastes: Sources, Processing, Properties and Applications. **2021**, 137-176 1
- 552 A Review on GSCM and Green Manufacturing Concepts in Plastic Industry. **2021**,
- 551 An Overview on the Environmental Impact of Food Packaging. **2021**, 1-14
- 550 Innovative Use of Plastic for a Clean and Sustainable Environmental Management: Learning Cases from Ghana, Africa. **2021**, 5, 12 23
- 549 Effect of starch type on the film properties of native starch based edible films. **2021**, 44, 3903-3907 4
- 548 Qualitative and energy recovery potential analysis: plastic-derived fuel oil versus conventional diesel oil. 1 3
- 547 Make or break: Mg(II)- and Zn(II)-catalen complexes for PLA production and recycling of commodity polyesters. **2021**, 12, 1086-1096 6

546	Iron-catalysed synthesis and chemical recycling of telechelic 1,3-enchaind oligocyclobutanes. 2021 , 13, 156-162	14
545	Valorizing plastic waste by insect consumption. 2021 , 1, 1-9	2
544	Introduction to Recycling. 2021 , 1-13	1
543	Recycling of Waste Rubbers into Value-Added Products. 2021 , 69-94	
542	Recirculation potential of post-consumer /industrial bio-based plastics through mechanical recycling - Techno-economic sustainability criteria and indicators. 2021 , 183, 109217	29
541	Recycling of Plastics into Advance Carbon Nanomaterials and Their Application in Energy Storage System. 2021 , 259-281	0
540	Analysis and Control of Light Hydrocarbon Gases in the Pyrolysis/Combustion Process of Several Solid Wastes. 1005-1012	1
539	Mechanical Recycling of Packaging Plastics: A Review. 2021 , 42, e2000415	147
538	Mushroom Packages. 2019 , 1-25	3
537	Automotive Plastics and Sustainability. 2017 , 29-77	1
536	Compostable Polymeric Ecomaterials: Environment-Friendly Waste Management Alternative to Landfills. 2019 , 2733-2764	1
535	Sustainability Issues Affecting the Successful Management and Recycling of End-of-Life Vehicles in Canada and the United States. 2014 , 223-245	1
534	Exergetic Life Cycle Assessment: An Improved Option to Analyze Resource Use Efficiency of the Construction Sector. 2013 , 313-321	2
533	Advancements in Recycled Polyesters. 2020 , 31-48	1
532	Microalgae as Sustainable Producers of Bioplastic. 2020 , 373-396	4
531	Segregation and Recycling of Plastic Solid Waste: A Review. 2020 , 205-221	1
530	Unsustainable Management of Plastic Wastes in India: A Threat to Global Warming and Climate Change. 2020 , 235-244	2
529	Regeneration and Recovery of Plastics. 2020 ,	7

528	Metalated porphyrins as versatile visible light and NIR photoinitiators of polymerization. 2020 , 139, 110019	17
527	Separation of polyvinylchloride (PVC), polystyrene (PS) and polyethylene terephthalate (PET) granules using various chemical agents by flotation technique. 2018 , 194, 368-376	24
526	Challenges of plastic waste generation and management in sub-Saharan Africa: A review. 2020 , 110, 24-42	41
525	Evaluation of a panel of spermatological methods for assessing reprotoxic compounds in multilayer semen plastic bags. 2020 , 10, 22258	3
524	Microplastics in the Environment. 2018 , 60-81	8
523	Characterisation of micropores in plasma deposited SiO _x films by means of positron annihilation lifetime spectroscopy. 2020 , 53, 475205	2
522	Durability of Repetitive Polypropylene Recycling: Challenge on Securing The Mechanical Properties. 1003, 012127	1
521	Plastic-degrading potential across the global microbiome correlates with recent pollution trends.	2
520	Subcritical Water Hydrolysis of Gelatin in Used X-Ray and Lith Films. 2011 , 44, 963-968	2
519	Bioplastics [An Eco-friendly Alternative to Petrochemical Plastics. 2019 , 14, 49-59	31
518	Accelerated Weathering of Recycled Polypropylene Packaging Bag Composites Reinforced with Wheat Straw Fibers. 2016 , 66, 485-494	1
517	Multistate Evaluation of Plant Growth and Water Use in Plastic and Alternative Nursery Containers. 2015 , 25, 42-49	8
516	A Cost-Effectiveness Analysis for Incineration or Recycling of Dutch Household Plastics.	3
515	Metagenomic Exploration of Plastic Degrading Microbes for Biotechnological Application. 2020 , 21, 253-270	21
514	Promoting Sustainable and Circular Plastics Use in Egipt with Implementation of Ecodesign Principles. 2019 , 1, 441-448	1
513	Marine microbe with potential to adhere and degrade plastic structures. 2017 , 1, 130-130	2
512	Wet Extrusion of Wood Powder Using a Cellulose Derivative. 2020 , 74, 516-524	3
511	CHARACTERIZATION OF PLASTIC MATERIALS PRESENT IN MUNICIPAL SOLID WASTE: PRELIMINARY STUDY FOR THEIR MECHANICAL RECYCLING. 2018 , In Press, 1	4

510	Georeferencing of agricultural plastic waste. 2016 , 71-82	8
509	Understanding individual and population-level effects of plastic pollution on marine megafauna. 2020 , 43, 234-252	25
508	Marine Environmental Plastic Pollution: Mitigation by Microorganism Degradation and Recycling Valorization. 2020 , 7,	24
507	Preparation of Sawdust-Filled Recycled-PET Composites via Solid-State Compounding. 2020 , 8, 100	3
506	Polymer Consumption, Environmental Concerns, Possible Disposal Options, and Recycling for Water Treatment. 200-222	3
505	Analyses of the Recycling Potential of Medical Plastic Wastes. 2020 , 178-199	1
504	White Pollution. 2020 , 52-81	5
503	Carbon in global waste and wastewater flows ¶Its potential as energy source under alternative future waste management regimes. 45, 105-113	14
502	Plastics waste management: A review of pyrolysis technology. 2021 , 1, 50-69	11
501	Influencia de la velocidad en las asas recicladas de polietileno de alta densidad probada con un mEdodo adaptado especfico industrial. 2021 , 20,	
500	Disposable Food Packaging and Serving Materials-Trends and Biodegradability. 2021 , 13,	2
499	Separation of PET and PS from PET / PS / PP plastic mixture and their use in synthesis of composite floating sorbent materials for dyes removal.	1
498	Investigating the Knowledge and Attitudes towards Plastic Pollution among the Youth in Nairobi, Kenya. 2021 , 10, 408	0
497	Determinants of Unsafe Plastic Waste Disposal among Households in the Tamale Metropolitan Area, Ghana. 2021 , 2021, 9974029	0
496	Microwave heating performances of low density polyethylene (LDPE) plastic particles. 2021 , 160, 105356	3
495	Plastic-Degrading Potential across the Global Microbiome Correlates with Recent Pollution Trends. 2021 , 12, e0215521	13
494	Recyclability of new polylactide based biodegradable materials with plant extracts containing natural polyphenols. 2021 , e00351	0
493	Thermal Behavior of Mixed Plastics at Different Heating Rates: I. Pyrolysis Kinetics. 2021 , 13,	4

492	Micro- and nanoplastic transfer, accumulation, and toxicity in humans.. 2021 , 28, 62-69	3
491	Perspectives on the Role of Enzymatic Biocatalysis for the Degradation of Plastic PET. 2021 , 22,	4
490	Effects of high-molecular-weight polyvinyl chloride on <i>Xenopus laevis</i> adults and embryos: the mRNA expression profiles of Myf5, Esr1, Bmp4, Pax6, and Hsp70 genes during early embryonic development. 2021 , 1	0
489	Imidazolium-based ionic liquid-assisted processing of natural biopolymers containing amine/amide functionalities for sustainable fiber production. 2021 , 14, 100082	1
488	Fluorescent Polyethylene by In Situ Facile Synthesis of Carbon Quantum Dots Facilitated by Silica Nanoparticle Agglomerates.	2
487	Chemical recycling of plastics assisted by microwave multi-frequency heating. 2021 , 5, 100297	1
486	The microplastic pollution in beaches that served as historical nesting grounds for green turtles on Hainan Island, China. 2021 , 173, 113069	2
485	Case studies in the applications of additive manufacturing for the medical field: with a focus on plastic parts. 2012 , 1,	
484	CHAPTER 9:Packaging Applications of Polyhydroxyalkanoates (PHAs). 2014 , 208-226	
483	Feedstock Recycling Technology from Polyester Wastes. 2014 , 52, 17-25	1
482	A Study on Mechanical Properties for Recycling of PVC Scraps. 2015 , 24, 45-53	
481	Design of Used PET Bottles Crushing Machine for Small Scale Industrial Applications. 2017 , 3, 157-168	0
480	ECOLOGICAL AND HYGIENIC EVALUATION OF POLYMER WASTE MECHANICAL RECYCLING TECHNOLOGY. 2018 , 1, 122	2
479	PPI4Waste Project: Current Practice and New Trends in Waste Management Sector. 2018 , 431-446	
478	Techno-economic Analysis of Energy Recovery from Plastic Waste. 2018 , 13-24	
477	Low incidence of plastic ingestion among three fish species significant for human consumption on the island of Newfoundland, Canada.	
476	Plastic pollution and World Environment Day 2018. 2018 , 3,	
475	Experience and overview of solving problem of polymer packaging in the world and Ukraine. 2018 , 2018,	

- 474 Development of a Preliminary Framework for the Reduction of Plastics in Packaging. **2019**, 251-262
- 473 Using Plastic Bags in Roadways. **2019**, 10, 456-460
- 472 Pivô mot sirkulære forretningsmodeller i varehandelen. **2019**, 35, 46-60
- 471 Responsible Consumption and Production. **2020**, 1-9
- 470 Análise dos copos descartáveis após 100 anos de uso.
- 469 Avaliação dos impactos ambientais de um processo industrial utilizando como matéria-prima policarbonatos virgem e reciclado. **2019**, 24, 1103-1113 ○
- 468 Reciclado de desechos plásticos en Laboratorio de Manufactura. 16-23
- 467 Implementation of Circular Practices in Small and Medium Enterprises in Developing Countries. **2020**, 144-166
- 466 Investigation of Recycled Acrylonitrile Butadiene Styrene for Additive Manufacturing. **2020**, 130-154
- 465 Second Life of Polymeric-Based Materials: Strategies and Performance. **2020**, 1-15
- 464 Polymer Consumption, Environmental Concerns, Possible Disposal Options, and Recycling for Water Treatment. **2020**, 691-708 1
- 463 Microplastics in Environment and Effects on Biota. **2020**, 4, 228-245 ○
- 462 Structural basis of terephthalate recognition by solute binding protein TphC. **2021**, 12, 6244 4
- 461 Antibacterial and Antifungal Properties of Electrospun Recycled PET Polymeric Fibers Functionalized with Zinc Oxide Nanoparticles. **2021**, 13, 1
- 460 Effect of Waste Polyethylene and Wax-Based Additives on Bitumen Performance. **2021**, 13, 3
- 459 Quantifying Energy and Greenhouse Gas Emissions Embodied in Global Primary Plastic Trade Network. ○
- 458 Study of the Degradation of Biobased Plastic after Stress Tests in Water. **2021**, 11, 1330 1
- 457 Exposure to leachates from post-consumer plastic and recycled rubber causes stress responses and mortality in a copepod *Limnocalanus macrurus*. **2021**, 173, 113103 3

- 456 Appraisal of public awareness regarding plastic waste in the Tangail Municipality, Bangladesh. **2021**, 78, 900-913 0
- 455 The Use of Ecofriendly Recycled Polymer Composites in Boat Building. **2020**, 1-26
- 454 Plastic Pollution and Its Remedies. **2020**, 142-159
- 453 Sorption of Potentially Toxic Elements to Microplastics. **2020**, 1-16 1
- 452 Plastic Pollution in the Oceans: A Systemic Analysis Status Quo and Possible Sustainable Solutions. **2020**, 221-243
- 451 Innovations in Recycling for Sustainable Management of Solid Wastes. **2020**, 177-210
- 450 Myco-degradation of plastics. **2020**, 25-34
- 449 Environmental and Health Implications of Plastic Pollution. **2020**, 38-58 1
- 448 Microplastic Vulnerability in the Sediments of the Sabarmati River of India. **2020**, 127-138 2
- 447 Plastic Products Manufacturing Strategies. **2020**,
- 446 Responsible Consumption and Production. **2020**, 544-551 1
- 445 Plastics Recycling Processes and Public Attitudes. **2020**,
- 444 Chemical Assisted Thermoplastic Joining for Sustainability. **2020**,
- 443 ??????????????????????. **2020**, 74, 508-515
- 442 Polymer Consumption, Environmental Concerns, Possible Disposal Options, and Recycling for Water Treatment. **2020**, 971-989
- 441 Detrimental Impact of Plastic Outcome on Agriculture. **2020**, 122-141
- 440 PLASTICS AS CONTEMPORARY MATERIAL IN ARCHITECTURE FOR HEALTH AND SUSTAINABLE CONSTRUCTION. **2018**, 5, 96-102
- 439 Improvised centrifugal spinning for the production of polystyrene microfibers from waste expanded polystyrene foam and its potential application for oil adsorption. **2021**, 68, 1

- 438 Recyclability and Redesign Challenges in Multilayer Flexible Food Packaging-A Review. **2021**, 10, 4
- 437 PlasticsIncreasing Value, Decreasing Lifetime. **2020**, 9-13
- 436 Environmental Analysis of Plastic Waste Handling. **2020**, 77-83
- 435 Microbial Degradation of Plastics and Its Biotechnological Advancement. **2021**, 1-30 1
- 434 Design as a Driver for Behavioural Change: Oceans and Plastics, Approaches for a Shift Towards Sustainability. **2021**, 456-469
- 433 Influence of Degradation of PLA with High Degree of Crystallinity on Fungal Community Structure in Compost. **2020**, 28, 169-178 1
- 432 The true cost of solving the plastic waste challenge in developing countries: The case of Ghana. **2022**, 330, 129649 1
- 431 Polymer Municipal Solid Waste in the Environment and Methods for Their Processing. **2021**, 63, 227-236
- 430 Investigating the Economic Feasibility of Community-Scale Plastic Recycling Facilities. **2021**, 0
- 429 Potential Use of Microbial Enzymes for the Conversion of Plastic Waste Into Value-Added Products: A Viable Solution.. **2021**, 12, 777727 2
- 428 A Review of Technologies for Managing Plastic Solid Wastes. **2022**, 25-49
- 427 Ternary waste plastic blends for binding and adhesion. 1-11 1
- 426 Sustainable Solid Waste Management: A Critical Review. **2022**, 1-8 0
- 425 Drivers to Sustainable PSWs Management: A Review. **2022**, 61-75
- 424 Towards Higher Quality of Recycled Plastics: Limitations from the Material Perspective. **2021**, 13, 13266 1
- 423 Designing Value Chains of Plastic and Paper Carrier Bags for a Sustainable and Circular Economy. 1
- 422 Post-consumer Plastic Solid Wastes: Recent Research Trends. **2022**, 9-24
- 421 What Shall We Do With a Sea of Plastics? A Systematic Literature Review on How to Pave the Road Toward a Global Comprehensive Plastic Governance Agreement. **2021**, 8, 2

420	Progress in valorisation of agriculture, aquaculture and shellfish biomass into biochemicals and biomaterials towards sustainable bioeconomy. 2021 , 291, 133036	1
419	Growing environmental footprint of plastics driven by coal combustion.	8
418	H ₂ -enriched gaseous fuel production via co-gasification of an algae-plastic waste mixture using Aspen PLUS. 2021 ,	1
417	Fabrication of biopolymer nanofibers from natural sources. 004051752110550	
416	Potential use of recycled plastic and rubber aggregate in cementitious materials for sustainable construction: A review. 2021 , 329, 129736	14
415	Scalable Synthesis of Pt/SrTiO Hydrogenolysis Catalysts in Pursuit of Manufacturing-Relevant Waste Plastic Solutions. 2021 ,	1
414	Addressing the Challenge of Microfiber Plastics as the Marine Pollution Crisis Using Circular Economy Methods: a Review. 2021 , 3, 1	0
413	Re-use of Plastic ProductsMaterials Perspective. 2021 ,	
412	Ring opening polymerization of ϵ -acetoxymethylvalerolactone, a triacetic acid lactone derivative. 2021 , 12, 6724-6730	1
411	Recycling of waste poly(vinyl chloride) fill materials to produce new polymer composites with propylene glycol plasticizer and waste sawdust of Albizia lebbeck wood. 2021 , 4, 100221	3
410	Overview of renewable polysaccharide-based composites for biodegradable food packaging applications.	6
409	Additive manufacturing of recycled plastics: Strategies towards a more sustainable future. 2022 , 335, 130236	2
408	Impact of nanoparticles on the environmental sustainability of polymer nanocomposites based on bioplastics or recycled plastics A review of life-cycle assessment studies. 2022 , 335, 130322	5
407	Industrial recycling of end-of-life vehicle windshield glass by mechanical beneficiation and complete recovery of polyvinyl butyral. 2022 , 334, 130192	2
406	Towards novel lignin-based aromatic polyesters: In-depth study of the thermal degradation and crystallization of poly(propylene vanillate). 2022 , 709, 179145	0
405	Recent advances in plastic degradation - From microbial consortia-based methods to data sciences and computational biology driven approaches.. 2021 , 426, 128086	9
404	Enhancements of sustainable plastics manufacturing through the proposed technologies of materials recycling and collection. 2022 , 31, e00376	0
403	Effect of biofilm formation on different types of plastic shopping bags: Structural and physicochemical properties.. 2021 , 206, 112542	3

402	Estimated material metabolism and life cycle greenhouse gas emission of major plastics in China: A commercial sector-scale perspective. 2022 , 180, 106161	3
401	Main Group Complexes in Polymer Synthesis. 2021 ,	
400	Design and Assessment of a Material Recycling Facility (MRF) in a Middle-Scale Residential Area.	
399	Exploring the theoretical effects of landfill based microplastic accumulation on the hydro-mechanical properties of porous soil media. 2022 , 26, 100332	0
398	Separation of Multi-Material Polymer Combinations Produced by Joining Using Pin-like Structures. 2022 , 6, 13	0
397	A review of atmospheric microplastics pollution: In-depth sighting of sources, analytical methods, physiognomies, transport and risks.. 2022 , 822, 153339	3
396	Micro and nano effects of recycled plastic waste to reinforce and enhance in biocomposites. 2022 , 195-211	
395	Microplastic Pollution in the Black Sea: An Overview of the Current Situation. 2022 , 167-186	1
394	Shredder machine for plastic recycling: A review paper. 2022 , 1217, 012007	0
393	Innovations in food packaging Sustainability challenges and future scenarios. 2022 , 375-392	0
392	Plastic waste management practices pertaining to India with particular focus on emerging technologies.. 2022 , 1	0
391	A Review of Current Design and Construction Practice for Road Kerbs and a Sustainability Analysis. 2022 , 14, 1230	0
390	Spectroscopy: A promising tool for plastic waste management. 2022 , 149, 116534	1
389	A review of the cost and effectiveness of solutions to address plastic pollution.. 2022 , 1	5
388	Chain-Extending Modification for Value-Added Recycled PET: A Review. 1-30	1
387	Recycled Polymer for FDM 3D Printing Filament Material: Circular Economy for Sustainability of Additive Manufacturing. 2022 , 243-261	
386	Recent advances in chemical recycling of polyethylene terephthalate waste into value added products for sustainable coating solutions Hope vs. hype.	7
385	Outside the Safe Operating Space of the Planetary Boundary for Novel Entities.. 2022 ,	58

384	The treatment of the organic fraction of municipal solid waste (OFMSW) as a possible source of micro- and nano-plastics and bioplastics in agroecosystems: a review. 2022 , 9,	2
383	COMPARATIVE STUDY ON DEGRADATION OF POLYLACTIC ACID/ SYZYGIUM AROMATICUM COMPOSITES AGEING IN OUTDOOR ENVIRONMENT AND SOIL BURIAL. 2022 , 23, 396-411	
382	Fatigue resistance of waste plastic-modified asphalt. 2022 , 145-162	0
381	Dhaka Sitting on a Plastic Bomb: Issues and Concerns around Waste Governance, Water Quality, and Public Health. 2022 , 3, 18-30	0
380	Impact of recycled plastic biocomposites on the economy and socioenvironment. 2022 , 247-259	
379	Resources and energy recovery with recycled plastic biocomposites. 2022 , 261-280	
378	Reaction Mechanisms Applied to Starch Modification for Biodegradable Plastics: Etherification and Esterification. 2022 , 2022, 1-10	
377	Recycling of Plastics in the United States: Plastic Material Flows and Polyethylene Terephthalate (PET) Recycling Processes.. 2022 , 10, 2084-2096	6
376	Towards achieving sustainable bioplastics production and nutrient recovery from wastewater: a comprehensive overview on polyhydroxybutyrate.	2
375	My Parents Taught Me Green Was My Growth! The Role of Intergenerational Transmission of Ecological Values in Young Adults' Pro-Environmental Behaviors and Their Psychosocial Mechanisms.. 2022 , 19,	1
374	Enhancement of PET biodegradation by anchor peptide-cutinase fusion protein.. 2022 , 156, 110004	1
373	Biodegradable plastic applications towards sustainability: A recent innovations in the green product. 2022 , 6, 100404	15
372	Waste plastic resource recovery from landfilled refuse: A novel waterless cleaning method and its cost-benefit analysis.. 2022 , 306, 114462	0
371	Environmental impacts of plastic packaging of food products. 2022 , 180, 106156	4
370	Nanocatalyzed upcycling of the plastic wastes for a circular economy. 2022 , 458, 214422	2
369	Experimental evaluation of microplastic consumption by using a size-fractionation approach in the planktonic communities.. 2022 , 821, 153045	1
368	Regulations to Minimize the Entry of Plastic Waste Into the Oceans. 2022 , 49-80	0
367	Strategies to Cope with the Plastic Pollution in the Sea. 2022 , 101-118	

- 366 Turning Plastic Wastes into Textile Products. **2022**, 1257-1283
- 365 Biodegradation of the Macroplastic Waste Using Microbial Approach. **2022**, 119-141
- 364 Different Waste Management Methods, Applications, and Limitations. **2022**, 21-58 0
- 363 Plastic Recycling for Energy Production. **2022**, 411-447 1
- 362 The Float-Sink Behavior of Selected Pre-microwave Irradiated Plastics by Surface Adsorption of Several Dual Depressants. 1 1
- 361 Extending Resource Value-Based Circular Economy Business Model in Emerging Economies: Lessons from India. 227853372110703 0
- 360 Assessment of processibility and properties of raw post-consumer waste polyethylene in the rotational moulding process. **2022**, 1 1
- 359 Pyrolysis of polyolefin plastic waste and potential applications in asphalt road construction: A technical review. **2022**, 180, 106213 2
- 358 A review on chemometric techniques with infrared, Raman and laser-induced breakdown spectroscopy for sorting plastic waste in the recycling industry. **2022**, 180, 106217 7
- 357 Nanocatalyzed Upcycling of the Plastic Wastes for a Circular Economy.
- 356 Plastic-Free Bioactive Paper Coatings, Way to Next-Generation Sustainable Paper Packaging Application: A Review. **2022**, 12, 9-27 1
- 355 Recent advances in renewable polymer/metal oxide systems used for tissue engineering. **2022**, 395-445
- 354 Glass Waste as Fine Aggregate Filler Replacement in Concrete Addition of Superplasticizer. **2022**, 45-61
- 353 Jet fuel-range hydrocarbon production from catalytic pyrolysis of low-density polyethylene by metal-loaded activated carbon. 1
- 352 Sorption of Potentially Toxic Elements to Microplastics. **2022**, 625-640
- 351 Assessing the Reusability of 3D Printer Filaments with Reference to Legal Aspects of Sustainability. **2022**, 129-137
- 350 Numerical Analysis to optimise the Effective Thermal resistance of novel waste plastic/SiO₂ composite roofing tiles for Residential buildings.
- 349 Nanoedibles: Recent Trends and Innovations. **2022**, 481-488

348	Awareness of health and environmental hazards of plastic bag use and available substitutes among health workers of two hospitals in a rural area of Northwest Nigeria. 2022 , 7, 16	
347	Terminology and dimensions of sustainability, life cycle assessment, and characteristics of sustainable polymer materials. 2022 , 17-29	
346	Combined Effect of Microplastics and Cd Alters the Enzymatic Activity of Soil and the Productivity of Strawberry Plants.. 2022 , 11,	5
345	Characterization of Recycled/Virgin Polyethylene Terephthalate Composite Reinforced with Glass Fiber for Automotive Applications. 2022 , 6, 59	0
344	Recent Advances in Biological Recycling of Polyethylene Terephthalate (PET) Plastic Wastes.. 2022 , 9,	1
343	Impact of China's National Sword Policy on the U.S. Landfill and Plastics Recycling Industry. 2022 , 14, 2456	1
342	Life Cycle Assessment (LCA) of Plastics. 2022 , 245-266	
341	Sorting, Depolymerizing, and Recycling Polymers: The Long Road to a Circular Plastics Economy. 1-30	
340	ATR-FTIR Spectroscopy Combined with Chemometric Methods for the Classification of Polyethylene Residues Containing Different Contaminants. 1	1
339	Applications, treatments, and reuse of plastics from electrical and electronic equipment. 2022 ,	1
338	Litter and plastic monitoring in the Indian marine environment: A review of current research, policies, waste management, and a roadmap for multidisciplinary action.. 2022 , 176, 113424	2
337	Biobased Seawater-Degradable Poly(butylene succinate-l-lactide) Copolyesters: Exploration of Degradation Performance and Degradation Mechanism in Natural Seawater. 2022 , 10, 3191-3202	2
336	Bio-Based and Biodegradable Plastics as Alternatives to Conventional Plastics. 2022 , 170-186	
335	Advancements in Biodegradable Active Films for Food Packaging: Effects of Nano/Microcapsule Incorporation.. 2022 , 11,	4
334	A Sustainable Approach to Build Insulated External Timber Frame Walls for Passive Houses Using Natural and Waste Materials. 2022 , 13, 522	0
333	Chemical Recycling of Polystyrene to Valuable Chemicals via Selective Acid-Catalyzed Aerobic Oxidation under Visible Light.. 2022 ,	8
332	Current Trends, Challenges, and Opportunities for Plastic Recycling. 2022 , 205-221	0
331	Polyethylenes: A Vital Recyclable Polymer.	0

330	Landmark treaty on plastic pollution must put scientific evidence front and centre.. 2022 , 603, 202	0
329	Disposal of plastic waste in Ghana: the knowledge, attitude and practices of households in the Tamale metropolis. 1-10	0
328	Sustainable Biocomposites for Structural Applications with Environmental Affinity.. 2022 ,	0
327	Transport fuel from waste plastics pyrolysis [A review on technologies, challenges and opportunities. 2022 , 258, 115451	4
326	Crystallization of microbial polyhydroxyalkanoates: A review.. 2022 ,	0
325	Preventing emissions of hazardous organic compounds from bituminous composites. 2022 , 344, 131067	3
324	Impact of plastic bags on the benthic system of a tropical estuary: An experimental study.. 2022 , 178, 113623	0
323	China's roadmap to plastic waste management and associated economic costs.. 2022 , 309, 114686	3
322	Heavy metals, PAHs and POPs in recycled polyethylene samples of agricultural, post-commercial, post-industrial and post-consumer origin.. 2022 , 144, 113-121	1
321	The message on the bottle: Rethinking plastic labelling to better encourage sustainable use. 2022 , 132, 109-118	1
320	Marine bacterial based enzymatic degradation of low-density polyethylene (LDPE) plastic. 2022 , 10, 107437	1
319	Low temperature upcycling of polyethylene to gasoline range chemicals: Hydrogen transfer and heat compensation to endothermic pyrolysis reaction over zeolites. 2022 , 10, 107492	0
318	A comprehensive review on integrative approach for sustainable management of plastic waste and its associated externalities.. 2022 , 153973	4
317	Life cycle climate change mitigation through next-generation urban waste recovery systems in high-density Asian cities: A Singapore Case Study. 2022 , 181, 106265	0
316	Junk food: Polymer composition of macroplastic marine debris ingested by green and loggerhead sea turtles from the Gulf of Oman.. 2022 , 154373	
315	Plastics: The good, the bad and the ugly. 2021 , 16, 170-179	
314	Lignin-Inspired Polymers with High Glass Transition Temperature and Solvent Resistance from 4-Hydroxybenzotrile, Vanillonitrile, and Syringonitrile Methacrylates.. 2021 , 9, 16874-16880	0
313	Waste Plastic Management via Pyrolysis as Sustainable Route. 2022 , 409-423	0

312	Acceptability of Edible Food Packaging in Slovakia: A Case Study on Young Generation. 2021 , 5,	
311	Chemical Recycling of Mixed Plastics in Electronic Waste Using Solvent-Based Processing. 2022 , 10, 66	3
310	Using Waste Plastics as Asphalt Modifier: A Review.. 2021 , 15,	4
309	Conversion of Plastic Waste into Supports for Nanostructured Heterogeneous Catalysts: Application in Environmental Remediation. 2022 , 5, 35-66	0
308	A Study on Recycling the Plastic Wastes with Bamboo on Making Wall Tiles. 2021 ,	
307	Recoverable Thermo-Responsive Polymeric Surfactants for the Synthesis of Bulk Plastics from Latexes. 2022 , 4, 270-279	1
306	Minimizing Oxygen Permeability in Chitin/Cellulose Nanomaterial Coatings by Tuning Chitin Deacetylation. 2022 , 10, 124-133	2
305	Research Trends in Flotation of Waste-plastics and Its Use as Functional Materials. 2020 , 29, 15-26	
304	Waste to white light: a sustainable method for converting biohazardous waste to broadband white LEDs.. 2022 , 12, 11443-11453	0
303	The critical role of Asp206 stabilizing residues on the catalytic mechanism of the Ideonella sakaiensis PETase.	0
302	Industrial chemicals as micropollutants in the environment. 2022 , 13-44	
301	Plastic Waste Management Strategies and Their Environmental Aspects: A Scientometric Analysis and Comprehensive Review.. 2022 , 19,	4
300	Conversion of Plastic Waste to Carbon-Based Compounds and Application in Energy Storage Devices.. 2022 , 7, 13403-13435	5
299	Conversion of waste plastics into carbonaceous adsorbents and their application for wastewater treatment. 1-19	0
298	Plastics and climate change breaking carbon lock-ins through three mitigation pathways. 2022 , 5, 361-376	6
297	Are Reliable and Emerging Technologies Available for Plastic Recycling in a Circular Economy?.	1
296	Risk perception and risk realities in forming legally binding agreements: The governance of plastics. 2022 , 134, 67-74	0
295	First record of plastiglomerates, pyroplastics, and plasticrusts in South America.. 2022 , 155179	0

294 Data_Sheet_1.PDF. **2020**,

293 Table_1.XLSX. **2019**,

292 Integration of Upcycling and Closed-Loop Recycling through Alternative Cyclization-Depolymerization. 0

291 Application of Internet of Things (IoT) in Waste Management. **2022**, 297-311

290 Utter Trash: (Mis-)Alignment of Plastic Recycling Policies and Human Behavior.

289 Fast successive self-nucleation and annealing (SSA) thermal fractionation protocol for the characterization of polyolefin blends from mechanical recycling. 0

288 Multilayer Packaging in a Circular Economy.. **2022**, 14, 3

287 A Review on Importance of Biodegradable Packaging for Foods and Pharmaceuticals. **2022**, 18,

286 Biosensor and chemo-enzymatic one-pot cascade applications to detect and transform PET-derived terephthalic acid in living cells. **2022**, 104326 1

285 Recycling of plastic wastes generated from COVID-19: A comprehensive illustration of type and properties of plastics with remedial options.. **2022**, 155895 2

284 Influence of Multiple Thermomechanical Processing of 3D Filaments Based on Polylactic Acid and Polyhydroxybutyrate on Their Rheological and Utility Properties. **2022**, 14, 1947 1

283 Charging plastic bags: Perceptions from Japan. **2022**, 1, e0000011 2

282 Analysis of volatile organic compounds produced during incineration of non-degradable and biodegradable plastics.. **2022**, 134946 1

281 Increasing rates of convenience food packaging use at HEIs: a case study of the Neelsie student centre, Stellenbosch University. **2022**, 107, 70-78 0

280 Microplastics in the environment: their sources, distribution, and dangerous status. **2022**, 233, 1 0

279 Microplastic Pollution Focused on Sources, Distribution, Contaminant Interactions, Analytical Methods, and Wastewater Removal Strategies: A Review.. **2022**, 19, 4

278 Recycling and Reutilizing Polymer Waste via Electrospun Micro/Nanofibers: A Review. **2022**, 12, 1663 2

277 Cereal and Confectionary Packaging: Assessment of Sustainability and Environmental Impact with a Special Focus on Greenhouse Gas Emissions.. **2022**, 11, 0

276	Scientometric analysis and critical review of fused deposition modeling in the plastic recycling context. 2022 , 2, 100008	1
275	Valorization of plastic wastes for production of fuels and value-added chemicals through pyrolysis □ A review. 2022 , 32, 101316	3
274	Effects of plastic coating on the physical and mechanical properties of the artificial aggregate made by fly ash. 2022 , 360, 132187	0
273	Characterization of biofilms formed on polystyrene microplastics (PS-MPs) on the shore of the Tuul River, Mongolia.. 2022 , 113329	0
272	Recycled (Bio)Plastics and (Bio)Plastic Composites: A Trade Opportunity in a Green Future. 2022 , 14, 2038	0
271	Electroediting of Soft Polymer Backbones.. 2022 ,	1
270	A Literature Review on Sustainability of Bio-Based and Biodegradable Plastics: Challenges and Opportunities. 2022 , 119, 1611-1647	
269	Catalytic pyrolysis of low density polyethylene and polypropylene wastes to fuel oils by N-clay. 2022 , 33, 50-55	
268	When one cannot bypass the byproducts: Plastic packaging waste embedded in production and export.	0
267	Material flow analysis of China's five commodity plastics urges radical waste infrastructure improvement. 2022 , 2, 025002	
266	Layer-by-layer stacking, low-temperature welding strategy to effectively recycle biaxially-oriented polypropylene film waste. 2022 , 125006	
265	Investigative Studies on Recycled High-Density Polyethylene and Polypropylene Pellets for Stabilization of Kaolinite Rich Soils. 2022 , 34,	
264	Ignored microplastic sources from plastic bottle recycling. 2022 , 838, 156038	
263	Recycling and reusing of polymers and plastics. 2022 , 119-139	
262	Hybrid Novel Additive Manufacturing for Sustainable Usage of Waste. 2022 , 2022, 1-12	
261	COVID-19 Biomedical Plastics Wastes□challenges and Strategies for Curbing the Environmental Disaster. 2022 , 14, 6466	
260	Closing the Carbon Loop in the Circular Plastics Economy. 2200247	1
259	Towards closed-loop material flow in additive manufacturing: Recyclability analysis of thermoplastic waste. 2022 , 132427	1

- 258 Thermal, morphological, rheological and deformation under mechanical loading analyses of recycled polyethylene terephthalates. **2022**, ○
- 257 Roadmap to sustainable plastic waste management: a focused study on recycling PET for triboelectric nanogenerator production in Singapore and India. ○
- 256 Packaging design for the circular economy: A systematic review. **2022**, 2
- 255 END-OF-LIFE SCENARIOS FOR POLY(LACTIC ACID). **2022**, 559-579
- 254 Elucidating the surface macroplastic load, types and distribution in mangrove areas around Cebu Island, Philippines and its policy implications. **2022**, 156408 ○
- 253 Converting waste plastics into construction applications: A business perspective. **2022**, 96, 106814 ○
- 252 Introduction Circular Economy of Polymers and Recycling Technologies. 1-21
- 251 Synthesis of cyclic Epinane carbonate as a potential monomer for bio-based polymers. **2022**, 12, 17454-17465 ○
- 250 A Lifecycle Framework for Industrial Decarbonization. **2022**, 161-167
- 249 Investigation on the Behavior of the Plastone Blocks Made with Waste Plastics and Aggregates as Substitute for Cement Concrete Paver Blocks. ○
- 248 A Review of Sorting and Separating Technologies Suitable for Compostable and Biodegradable Plastic Packaging. 3, ○
- 247 Blue Seas: Freeing the Seas from Plastics. **2022**, 181-283
- 246 Sustainable polymers. **2022**, 2, 4
- 245 The effects of environmental information provision on plastic bag use and marine environment status in the context of the environmental levy in Greece. ○
- 244 Micrococcus luteus strain CGK112 isolated from cow dung demonstrated efficient biofilm-forming ability and degradation potential toward high-density polyethylene (HDPE). **2022**, 204, ○
- 243 Mechanochemical modification of crosslinked low-density polyethylene: Effect of solid-state shear pulverization on crosslinks, branches, and chain lengths. ○
- 242 Does Policy on Plastic Waste Support Higher Waste Management Hierarchy Options?. **2022**, 7, 36 ○
- 241 Impact of Micro and Nanoplastics in the Marine Environment. **2022**, 172-225

- 240 Processability and Physical Properties of Compatibilized Recycled HDPE/Rice Husk Biocomposites. **2022**, 6, 67 3
- 239 Additive manufacturing of jute fiber reinforced polymer composites: A concise review of material forms and methods. 1
- 238 Mechanical Recycling of Metal-Bonded Multilayered Flexible Packaging. **2022**, 11, 20210057
- 237 The Effect of Microplastics on Living Things. **2022**, 31, 94-98
- 236 Fracture Toughness of Polymer Interfaces Compatibilized with Nanoparticle Brushes. 0
- 235 Microplastic pollution at Qilianyu, the largest green sea turtle nesting grounds in the northern South China Sea. 10, e13536 1
- 234 Investigations on Primary and Secondary Recycling of PLA and its Composite for Biomedical and Sensing Applications. 1
- 233 Alloy Profusion, Spice Metals, and Resource Loss by Design. **2022**, 14, 7535 0
- 232 Eco-friendly wood-plastic composites from laminate sanding dust and waste poly(propylene) food pails. **2022**, 149, 96-104 2
- 231 Emulsion templated porous funnel from polypropylene waste for efficient oil separation and spillage management. **2022**, 650, 129563 2
- 230 Leveraging blockchain concepts as watermarkers of plastics for sustainable waste management in progressing circular economy. **2022**, 213, 113631 6
- 229 Comprehensive understanding the impacts of dietary exposure to polyethylene microplastics on genetically improved farmed tilapia (*Oreochromis niloticus*): tracking from growth, microbiota, metabolism to gene expressions. **2022**, 841, 156571 2
- 228 Packaging Applications of Fungal Mycelium-Based Biodegradable Composites. **2022**, 189-208
- 227 Sa'ah: Creative Eco-friendly Mobile Applicatio That Encourages Living Sustainably. **2022**,
- 226 Initial survey on microplastic waste in coastal water in Nam Dinh. **2022**, 22, 209-216
- 225 Green Polymer Chemistry and Bio-Based Plastic. **2022**, 77-103
- 224 YAIL TEXNOLOGYA, KARBON MENECEMENT, ALTERNATIF VIBRPA OLUNAN ENERJI, AZERBAYCAN NEMUNESINDI, **2022**, 19, 93-104
- 223 Plastic Waste in India: overview, impact, and measures to mitigate: Review. **2022**, 10, 456-473 0

222	Feasibilities of producing high-value carbon nanotubes from waste plastics by spray pyrolysis. 2022 , 105613	
221	Optimal strategy to sort plastic waste considering economic feasibility to increase recycling efficiency. 2022 ,	0
220	Material flow analysis of a post-consumer plastic packaging recycling system in The Netherlands: a focus on beverage carton.	0
219	Sustainable plastic waste management in a circular economy. 2022 , e09984	2
218	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. 2022 , 181, 113926	1
217	Green product innovation: A means towards achieving global sustainable product within biodegradable plastic industry. 2022 , 363, 132506	1
216	Time-gated Raman spectroscopy of recovered plastics. 2022 , 181, 113894	0
215	Molecular and Biochemical Differences of the Tandem and Cold-Adapted PET Hydrolases Ple628 and Ple629, Isolated From a Marine Microbial Consortium. 10,	1
214	MORPHO-STRUCTURAL AND THERMO-MECHANICAL CHARACTERIZATION OF RECYCLED POLYPROPYLENE AND POLYSTYRENE FROM MIXED POST-CONSUMER PLASTIC WASTE. 2022 , 108332	0
213	Development of an inter-confirmatory plastic characterization system using spectroscopic techniques for waste management. 2022 , 150, 339-351	0
212	Mechanical Properties of Injection Molded PP/PET-Nanofibril Composites and Foams. 2022 , 14, 2958	2
211	Macroplastic abundance at Lake Singkarak riparian, West Sumatera. 2022 , 1062, 012025	0
210	Systematic review: Analysis of the use of D-limonene to Reduce the Environmental Impact of Discarded Expanded Polystyrene (EPS).. 2022 , 1048, 012003	
209	Estimation of some heavy metals' contamination in waste newspapers. 2022 , 194,	
208	Design of data feature-driven 1D/2D convolutional neural networks classifier for recycling black plastic wastes through laser spectroscopy. 2022 , 53, 101695	1
207	Economical Chemical Recycling of Complex PET Waste in the Form of Active Packaging Material. 2022 , 14, 3244	1
206	Engineering, Recyclable, and Biodegradable Plastics in the Automotive Industry: A Review. 2022 , 14, 3412	4
205	Using Recycled Concrete Powder, Waste Glass Powder, and Plastic Powder to Improve the Mechanical Properties of Compacted Concrete: Cement Elimination Approach. 2022 , 2022, 1-12	1

204	Food Packaging Materials with Special Reference to Biopolymers-Properties and Applications.	4
203	Sustainable recycling technologies for thermoplastic polymers and their composites: A review of the state of the art.	0
202	Circularly Recyclable Polymers Featuring Topochemically Weakened Carbon-Carbon Bonds.	3
201	Coronas of micro/nano plastics: a key determinant in their risk assessments. 2022 , 19,	3
200	Closing the loop on plastics in Europe: The role of data, information and knowledge. 2022 , 33, 942-951	2
199	An alternative to discarded plastic: A report of polymer optical fiber made from recycled materials for the development of biosensors. 2022 , 72, 103001	1
198	A typology and assessment of innovations for circular plastic packaging. 2022 , 369, 133313	0
197	Rethinking the use of bio-based plastics to accelerate the decarbonization of our society. 2022 , 186, 106593	
196	Microplastic pollution in soils, plants, and animals: A review of distributions, effects and potential mechanisms. 2022 , 850, 157857	2
195	Engineering properties and environmental impact assessment of green concrete prepared with PVC waste powder: A step towards sustainable approach. 2022 , 17, e01404	1
194	Optimisation of mechanical properties of polyethylene terephthalate fibre/fly ash hybrid concrete composite. 2022 , 17, e01395	
193	Fused deposition modelling approach using 3D printing and recycled industrial materials for a sustainable environment: a review. 2022 , 122, 2125-2138	3
192	Transitional probabilities for plastic waste management and implication on sustainability. 2022 , 8,	0
191	Separation of plastic wastes using froth flotation [An overview. 2022 , 308, 102769	1
190	Utilization of agricultural waste as an alternative for packaging films. 2022 , 188, 115685	0
189	Performance assessment of the co-gasification for sustainable management of municipal solid waste: Moroccan Case. 2022 , 8, 1530-1540	0
188	A machine learning based classification models for plastic recycling using different wavelength range spectrums. 2022 , 374, 133883	2
187	DES-ultrasonication processing for cellulose nanofiber and its compounding in biodegradable starch based packaging films through extrusion. 2022 , 188, 115566	2

- 186 On the implementation of the circular economy route for E-waste management: A critical review and an analysis for the case of the state of Kuwait. **2022**, 323, 116181 ○
- 185 Microbial communities in plastisphere and free-living microbes for microplastic degradation: A comprehensive review. **2022**, 3, 100030 1
- 184 Flow and stock accumulation of plastics in China: Patterns and drivers. **2022**, 852, 158513 ○
- 183 Flows and waste reduction strategies of PE, PP, and PET plastics under plastic limit order in China. **2023**, 188, 106668 ○
- 182 A generic scenario analysis of end-of-life plastic management: Chemical additives. **2023**, 441, 129902 ○
- 181 Homoleptic phenoxy-imine pyridine zinc complexes: efficient catalysts for solvent free synthesis and chemical degradation of polyesters. ○
- 180 Was ist Plastik?. **2022**, 1-17 ○
- 179 Digital Pedagogy for Mathematics and Technology Education: Exploring the Initiatives at One South African Teacher Education Institution. **2022**, 223-241 ○
- 178 Disposal of Non-biodegradable Waste Using Eco-Friendly Methods. **2022**, 345-363 ○
- 177 New Business Model of Furniture from Recycled Plastic Waste. **2022**, 832-842 ○
- 176 A recyclable thermoset with built-in thermocleavable group developed from a cis-cyclobutane-1,2-dicarboxylic acid. **2022**, 58, 8850-8853 1
- 175 A sustainable way of recycling polyamides: dissolution and ammonolysis of polyamides to diamines and diamides using ammonia and biosourced glycerol. **2022**, 24, 6923-6930 ○
- 174 Upcycling hazardous metals and PET waste-derived metalorganic frameworks: a review on recent progresses and prospects. **2022**, 46, 15776-15794 3
- 173 Biodegradation Process: Basics, Factors Affecting, and Industrial Applications. **2022**, 1-39 ○
- 172 Survey on usage of single use plastic bags in Nepal. **2022**, 1057, 012008 1
- 171 Development of Small-Scale PETE Plastic Bottle Shredder with Electronic Sensor Controls for Cap Separation: Basis for Reverse Vending Machine. **2023**, 253-264 ○
- 170 Applications of Biodegradable Polymers and Plastics. **2022**, 673-686 ○
- 169 Multiobjective Optimization of Plastic Waste Sorting and Recycling Processes Considering Economic Profit and CO2 Emissions Using Nondominated Sorting Genetic Algorithm II. ○

168	Machine-Learning-Based Predictions of Polymer and Postconsumer Recycled Polymer Properties: A Comprehensive Review. 2022 , 14, 42771-42790	0
167	Current progress on the biodegradation of synthetic plastics: from fundamentals to biotechnological applications.	2
166	Plastic Waste Recycling, Applications, and Future Prospects for a Sustainable Environment. 2022 , 14, 11637	2
165	Importance and Applications of Biodegradable Materials and Bioplastics From Renewable Resources. 2022 , 789-836	0
164	Fate identification and management strategies of non-recyclable plastic waste through the integration of material flow analysis and leakage hotspot modeling. 2022 , 12,	1
163	Physical and biomimetic treatment methods to reduce microplastic waste accumulation.	1
162	Experimentation and Characterization of Mycelium-Based Biocomposites for Ephemeral Product Applications. 2023 , 15-27	0
161	Evaluating the collection and composition of plastic waste in the digital waste bank and the reduction of potential leakage into the ocean. 0734242X2211234	0
160	Challenges Associated with Cleaning Plastic Food Packaging for Reuse. 2022 , 1, 21-39	0
159	Modeling of the As (III) adsorption using Fe impregnated polyethylene terephthalate char matrix: A statistical approach.	0
158	The Current State, Challenges, and Opportunities of Recycling Plastics in Western Australia. 2022 , 7, 64	1
157	Recyclable Vitrimers from Biogenic Poly(itaconate) Elastomers. 2022 , 55, 8032-8039	2
156	Blockchain technology and AI -facilitated polymers recycling: Utilization, realities, and sustainability.	0
155	Wear Mechanisms and Performance of PET Shredder Blade with Various Geometries and Orientations. 2022 , 10, 760	0
154	Hydrothermal liquefaction of pretreated polyethylene-based ocean-bound plastic waste in supercritical water. 2022 ,	1
153	Life cycle sustainability assessment of non-beverage bottles made of recycled High Density Polyethylene. 2022 , 134442	0
152	Are anthropogenic soils from dumpsites suitable for arable fields? Evaluation of soil fertility and biomass response to elements.	0
151	A starch-based, crosslinked blend film with seawater-specific dissolution characteristics. 2022 , 120181	1

150	The Problem of Plastic in the Arctic. 2022 , 3-17	0
149	Using precision polymer chemistry for plastics traceability and governance.	1
148	Role and Importance of Functional Food Packaging in Specialized Products for Vulnerable Populations: Implications for Innovation and Policy Development for Sustainability. 2022 , 11, 3043	1
147	Overview of Major Recycling Technologies. 2022 , 239-273	0
146	Mushroom Packages. 2023 , 1-25	0
145	High strength insulating polymeric composite based on recycled/virgin polyethylene terephthalate (PET) reinforced with hydrous magnesium silicate (talc). 2022 ,	0
144	Development of polyurethane/polyethylene terephthalate/fiber glass polymeric composite from internal auto parts waste. 147776062211361	0
143	Bioplastics for Food Packaging: Environmental Impact, Trends and Regulatory Aspects. 2022 , 11, 3087	1
142	Fuel Range Properties of Oil and Wax Obtained from Catalytic Pyrolysis of Linear Low-Density Polyethylene in a Fluidized Bed Reactor (FBR).	0
141	Quality Changes of Low-Density Polyethylene (LDPE) Recyclates from the Pretreatment Process with a Cationic Surfactant and a Nonionic Surfactant as Cleaning Agents Upstream of Extrusion. 2022 , 10, 2174	0
140	Sustainable nanocomposite coating for moulded pulp with enhanced barrier properties for food packaging applications.	1
139	Aerobic biodegradation of untreated polyester-polyether urethanes by newly isolated yeast strains <i>Exophilia</i> sp. NS-7 and <i>Rhodotorula</i> sp. NS-12.	0
138	Disposable Polymer Packaging: A Problem without a Solution?. 2022 , 92, 600-608	0
137	Biobased, Creep-Resistant Covalent Adaptable Networks Based on β Amino Ester Chemistry. 2022 , 10, 14045-14052	1
136	Microplastics: A potential threat to groundwater resources. 2022 , 19, 100852	0
135	Upcycling opportunities and potential markets for aluminium composite panels with polyethylene core (ACP-PE) cladding materials in Australia: A review. 2022 , 357, 129194	0
134	Processing household plastics for recycling \square A review. 2022 , 6, 100158	1
133	A review on production and application of activated carbon from discarded plastics in the context of \square waste treats waste \square 2023 , 325, 116613	0

132	The Mediterranean Sea in the Anthropocene. 2023 , 501-553	0
131	Microplastic materials in the environment: Problem and strategical solutions. 2023 , 132, 101035	2
130	Photodegradation of polyolefin thin films in simulated freshwater conditions.	0
129	Simple upcycling of virgin and waste polyethylene into covalent adaptable networks: catalyst-free, radical-based reactive processing with dialkylamino disulfide bonds.	0
128	Biodegradation of macro- and micro-plastics in environment: A review on mechanism, toxicity, and future perspectives. 2023 , 858, 160108	1
127	Thermal and catalytic pyrolysis of a real mixture of post-consumer plastic waste: An analysis of the gasoline-range product. 2022 , 168, 1201-1211	0
126	Biopolymer Waste Management. 2022 , 1-21	0
125	Recycling of polyethylene terephthalate (PET Or PETE) plastics [An alternative to obtain value added products: A review. 2023 , 100, 100843	0
124	Active packaging of chitosan film modified with basil oil encapsulated in silica nanoparticles as an alternate for plastic packaging materials. 2023 , 51, 102298	0
123	Carbon Footprint of Grocery Bags Considering Drivers of Variability in Mexico City. 2022 , 47-77	0
122	Protecting Our Oceans with Citizen Science: El Astillero, Nicaragua. 2022 , 1-19	0
121	Buoyant microplastics in freshwater sediments [How do they get there?. 2022 , 160489	0
120	A Study on Edible Polymer Films for Food Packaging Industry: Current Scenario and Advancements.	0
119	Mechatronics in CDIO Projects for Green and Sustainable Environments. 2022 , 35-63	0
118	A Study of the Drivers of Decarbonization in the Plastics Supply Chain in the Post-COVID-19 Era. 2022 , 14, 15858	0
117	Polyethylene (PE) Waste Minimization Study of Cement Mortar with Adding PE Content under Different W/B Ratios. 2022 , 12, 2117	0
116	Design of experiments to compare the reprocessing effect with Fused Deposition Modeling printing parameters on mechanical properties of Polylactic Acid specimens towards circular economy. 147776062211457	0
115	Mechanical and Thermal Properties of Mixed PE Fractions from Post-Consumer Plastic Packaging Waste. 2022 , 7, 45181-45188	0

- 114 Reactive Crystallization via Metal-Organic-Framework Formation Enables Separation of Terephthalic Acid from Textile Impurities. 0
- 113 Recycling of Plastic Waste: A Systematic Review Using Bibliometric Analysis. **2022**, 14, 16340 1
- 112 Tuning the Morphology of HDPE/PP/PET Ternary Blends by Nanoparticles: A Simple Way to Improve the Performance of Mixed Recycled Plastics. **2022**, 14, 5390 1
- 111 Upcoming Transformations in Integrated Energy/Chemicals Sectors: Some Challenges and Several Opportunities. 0
- 110 Co-exposure to cadmium and microplastics promotes liver fibrosis through the hemichannels -ATP-P2X7 pathway. 0
- 109 Enhanced degradation of Poly(ethylene terephthalate) by the addition of lactic acid / glycolic acid: composting degradation, seawater degradation behavior and comparison of degradation mechanism. **2022**, 130670 0
- 108 Marine-Derived Actinomycetes: Biodegradation of Plastics and Formation of PHA Bioplastics: A Circular Bioeconomy Approach. **2022**, 20, 760 0
- 107 Solid waste recycling within higher education in developing countries: a case study of the University of Lagos. 0
- 106 Microplastics in agroecosystems: A review of effects on soil biota and key soil functions. 0
- 105 Washing Post-Consumer Flexible Polyethylene Packaging Waste. **2022**, 7, 90 0
- 104 Microplastics in the Surface Water and Gastrointestinal Tract of *Salmo trutta* from the Mahodand Lake, Kalam Swat in Pakistan. **2023**, 11, 3 0
- 103 Evaluating strategies for sustainable recovery and recycling of plastic waste in the West Bank of Palestine: The perspectives of plastic companies. **2023**, 195, 0
- 102 Bacterial dynamics during the burial of starch-based bioplastic and oxo-low-density-polyethylene in compost soil. **2022**, 22, 1
- 101 An integrated circular economy model for transformation towards sustainability. **2023**, 135950 0
- 100 Influencing factors for microplastic intake in abundant deep-sea lanternfishes (Myctophidae). **2023**, 161478 0
- 99 Are anthropogenic soils from dumpsites suitable for arable fields? Evaluation of soil fertility and transfer of potentially toxic elements to plants. 0
- 98 Intelligent Technologies, Enzyme-Embedded and Microbial Degradation of Agricultural Plastics. **2023**, 5, 85-111 0
- 97 Constructing Low-k Polymers at High Frequency from Two Propenyl-containing Biomasses through Grubbs Reaction. 0

96	Selection of plastic solid waste treatment technology based on cumulative prospect theory and fuzzy DEMATEL.	0
95	Cassava starch-derived aerogels as biodegradable packaging materials. 2023 , 296, 127282	0
94	Blockchain-based tokenization and its impact on plastic bottle supply chains. 2023 , 257, 108776	1
93	Parametric life cycle assessment modeling of reusable and single-use restaurant food container systems. 2023 , 190, 106862	0
92	Mind the gap: Analyzing factors associated with consumers' single-use product reduction. 2023 , 36, 75-87	1
91	The potential of converting plastic waste to 3D printed products in Sub-Saharan Africa. 2023 , 17, 200129	0
90	Plastic concrete mechanical properties prediction based on experimental data. 2023 , 18, e01831	0
89	Harmanlamaya uygun termoplastik niĖsta Ėetimi ve termoplastik niĖsta/polietilen harmanlarĖnĖ morfolojik, termal, reolojik Ėelliklerinin belirlenmesi.	0
88	PHA-Based Bioplastic: a Potential Alternative to Address Microplastic Pollution. 2023 , 234,	1
87	Agricultural Plastic Waste Management. 2022 , 18, 1312-1319	0
86	WILL WE BE ABLE TO USE RECYCLED PLASTICS OR SHALL WE DECIDE FOR PACKAGING FREE PRODUKCTION?. 2022 , 12, 276-283	0
85	Biodegradable mulch utilizing bioplastic biopolymer polyhydroxyalkanoates. 2022 ,	0
84	Machine Learning Predictions of Oil Yields Obtained by Plastic Pyrolysis and Application to Thermodynamic Analysis.	0
83	El reciclaje de plĖsticos, un reto para lograr una economĖ circular. 2022 , 12,	0
82	Synthesis of a New Flocculant from Waste Polystyrene: Plastic Recycling Industry Wastewater Treatability. 2023 , 234,	1
81	Microbial attachment studies on plĖstic-specific microorganisms. 2023 , 309-337	0
80	Waste Plastic Nanomagnetite Pour Point Depressants for Heavy and Light Egyptian Crude Oil. 2023 , 8, 3872-3881	0
79	Evaluation of sustainability of polylactide and polylactide-based composites. 2023 , 351-366	0

78	Microplastics: A Real Global Threat for Environment and Food Safety: A State of the Art Review. 2023 , 15, 617	1
77	Plastic waste to plastic value. 2023 , 339-360	0
76	Colombian Sustainability Perspective on Fused Deposition Modeling Technology: Opportunity to Develop Recycled and Biobased 3D Printing Filaments. 2023 , 15, 528	1
75	Development prospects for resource utilization of waste plastics. 2023 , 227-248	0
74	Plastic recycling: Challenges, opportunities, and future aspects. 2023 , 317-356	0
73	Spectacle lens and contact lens recycling in South Africa. 2023 , 82,	0
72	Quality Aspects in the Compounding of Plastic Recyclate. 2023 , 8, 18	0
71	Small-Scale Mechanical Recycling of Solid Thermoplastic Wastes: A Review of PET, PEs, and PP. 2023 , 16, 1406	0
70	Comparison of ResNet50 and SqueezeNet1.1 for Plastic Bottles and Cans Classification. 2022 ,	0
69	Synthesis, Characterization, Application of PET Waste Blended with Hybrid Fibers and Preparation of Fiber Derived Unsaturated Resin. 2022 , 64, 818-833	0
68	A systematic review on plastic waste conversion for a circular economy: recent trends and emerging technologies.	0
67	Municipal solid waste management: Production, management, and environmental effects. 2023 ,	0
66	Algae-based bioplastics. 2023 , 133-156	0
65	Effective environmental education for sustainable development beyond the Plastic Age in South Korea. 1-18	0
64	Mechanochemical Degradation and Recycling of Synthetic Polymers.	0
63	Combustion behaviour of plastic waste [A case study of PP, HDPE, PET, and mixed PES-EL. 2023 , 402, 136850	0
62	Recent advances in plastics waste degradation using ionic liquid-based process. 2023 , 211, 110320	0
61	Recycling polymer composite granulate/regrind using big area additive manufacturing. 2023 , 256, 110652	0

- 60 Contribution of plastic and microplastic to global climate change and their conjoining impacts on the environment - A review. **2023**, 875, 162627 ○
- 59 Comprehensive environmental impact assessment of plastic film mulching with emphasis on waste disposal of discarded plastic film in sunflower production. **2023**, 404, 136979 ○
- 58 Thermoset polymer composites with gradient natural and synthetic fiber reinforcement: Self-healing, shape-memory, and fiber recyclability. **2023**, 35, 105950 ○
- 57 Mechanochemical Degradation and Recycling of Synthetic Polymers. ○
- 56 Spatial distribution and characteristics of microplastics and associated contaminants from mid-altitude lake in NW Himalaya. **2023**, 326, 138415 ○
- 55 Novel Nanostructured Inclusions in Biopolymers to Form Advanced Materials for Packaging in the Food Industry. **2022**, 113-134 ○
- 54 A review on gasification and pyrolysis of waste plastics. 10, ○
- 53 Replacing plastic with corrugated cardboard: A carbon footprint analysis of disposable packaging in a B2B global supply chain—A case study. **2023**, 191, 106871 ○
- 52 Can Pyrolysis Oil Be Used as a Feedstock to Close the Gap in the Circular Economy of Polyolefins?. **2023**, 15, 859 ○
- 51 Synergistic Mutations Create Bacillus Subtilisin Variants with Enhanced Poly-l-Lactic Acid Depolymerization Activity. **2023**, 24, 1141-1154 ○
- 50 The structural evolution of poly(ethylene terephthalate) oligomers produced via glycolysis depolymerization. **2023**, 11, 4679-4690 ○
- 49 Practical ways to recycle plastic: current status and future aspects. ○
- 48 Addressing plastic bags consumption crises through store monetary and non-monetary interventions in South Africa. 3, ○
- 47 New insight into long-term effects of phthalates microplastics in developing zebrafish: Evidence from genomic alteration and organ development. **2023**, 99, 104087 ○
- 46 Co-pyrolysis of biomass and plastic: Circularity of wastes and comprehensive review of synergistic mechanism. **2023**, 17, 100989 ○
- 45 Ink Removal on Plastic Films Printed by Flexography. **2023**, 240-249 ○
- 44 Agriculture waste to bioplastics: a perfect substitution of plastics. **2023**, 299-314 ○
- 43 Synthesis and characterization of native and modified bitter yam starch grafted with acrylonitrile. **2022**, 32, ○

- 42 Biodegradation Process: Basics, Factors Affecting, and Industrial Applications. **2023**, 19-56 ○
- 41 Microbial Degradation of E-plastics in Diverse Ecosystems. **2023**, 177-199 ○
- 40 Dihydroxyterephthalate A Trojan Horse PET Countit for Facile Chemical Recycling. ○
- 39 Utilization of Waste Plastic in Tiles. **2023**, 12, 19-24 ○
- 38 Chemical upcycling of plastics as a solution to the plastic trash problem for an ideal, circular polymer economy and energy recovery. ○
- 37 Economic and ecological evaluation and optimization of the life cycle of a wind farm. ○
- 36 Converting plastic waste to fuel and fine chemicals. **2023**, 71-100 ○
- 35 Microwave-assisted Pyrolysis of Waste Plastics for Their Resource Reuse: A Technical Review. **2023**, ○
- 34 Plastic waste management for sustainable environment: techniques and approaches. ○
- 33 Comparative assessment of life cycle impacts of various plastic waste management scenarios in Johannesburg, South Africa. **2023**, 28, 536-553 ○
- 32 Micro and Nanoplastics in Agricultural Soils: Challenges and Future Directions. **2023**, 413-427 ○
- 31 Thermo-Rheological Analysis and Kinetic Modeling of Thermal and Thermo-Oxidative Degradation of Polyethylene. **2023**, 191-213 ○
- 30 Dynamic elastomers based on bio-derived crosslinker. ○
- 29 Organic Pollutants Associated with Plastic Debris in Marine Environment: A Systematic Review of Analytical Methods, Occurrence, and Characteristics. **2023**, 20, 4892 ○
- 28 Study and Characterization of Regenerated Hard Foam Prepared by Polyol Hydrolysis of Waste Polyurethane. **2023**, 15, 1445 ○
- 27 Changing Landscape of Plastic Waste Management in India. **2023**, 105-119 ○
- 26 Scientometric analysis of the development of plastic packaging considering the circular economy and clean technologies: A review. 0734242X2311600 ○
- 25 Solving the plastic dilemma: the fungal and bacterial biodegradability of polyurethanes. **2023**, 39, ○

- 24 Plastic Waste Identification Using Laser-Induced Breakdown Spectroscopy. **2023**, 615-622 ○
- 23 Sanitary landfill leachate treatment by aerated electrochemical Fenton process. **2023**, 337, 117698 ○
- 22 Information-Based Plastic Material Tracking for Circular Economy A Review. **2023**, 15, 1623 ○
- 21 Green Packaging, an Imminent Eco-Friendly Approach. **2023**, 1-11 ○
- 20 Melt Processible Biodegradable Blends of Polyethylene Glycol Plasticized Cellulose Diacetate with Polylactic Acid and Polybutylene Adipate-co-Terephthalate. ○
- 19 Aerobic biodegradation of untreated polyester/polyether urethanes by newly isolated yeast strains *Exophilia* sp. NS-7 and *Rhodotorula* sp. NS-12. **2023**, 13, ○
- 18 Plastic and organic waste identification using multispectral imaging. **2023**, ○
- 17 Metal-catalyzed plastic depolymerization. **2023**, 101341 ○
- 16 Biodégradabilité des plastiques biosourcés: revue bibliographique sur l'acide polylactique. **2022**, 110, 604 ○
- 15 North-South Waste Trade: Prime Example of the Circular Economy or Major Environmental Threat?. ○
- 14 MSW characterization and preprocessing for biofuels and bioproducts. **2023**, 197-238 ○
- 13 Solid-State Shear Milling for Recycling Aluminum Plastic Packaging Waste: A Sustainable Solution for Mixed Plastic Waste. **2023**, 15, 6144 ○
- 12 Introductory Chapter: Food Processing, Preservation, and Packaging A Brief Overview. ○
- 11 Controlling selectivity for dechlorination of poly(vinyl chloride) with (xantphos)RhCl. ○
- 10 Potential of Optical Spaceborne Sensors for the Differentiation of Plastics in the Environment. **2023**, 15, 2020 ○
- 9 Development of sustainable 3D printing filaments using recycled/virgin ABS blends: Processing and characterization. ○
- 8 Life-cycle based evaluation of the environmental impact of chemical recycling vs. combined waste-to-energy and carbon-capture-and-utilization for selected epoxy resins. **2023**, 116, 660-665 ○
- 7 Life Cycle Assessment of Plastic Waste End-of-life Treatments in Singapore. **2023**, 116, 522-527 ○

- 6 Development of a Polymer Spectral Database for Advanced Chemometric Analysis. **2023**, 116, 197-202 ○
- 5 Waste plastic to energy storage materials: A State-of-the-art review. ○
- 4 Reduced cellular process and developmental process genotoxicity of polystyrene nanoplastics in zebrafish embryogenesis using Aurelia aurita proteins. ○
- 3 Biodegradation Studies of Polyhydroxybutyrate and Polyhydroxybutyrate-co-Polyhydroxyvalerate Films in Soil. **2023**, 24, 7638 ○
- 2 New insights into the migration, distribution and accumulation of micro-plastic in marine environment: A critical mechanism review. **2023**, 138572 ○
- 1 Exposure levels of dust, endotoxin, and microorganisms in the Danish recycling industry. ○