

# CITATION REPORT

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Methods for polyurethane and polyurethane composites, recycling and recovery: A review

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#	Paper	IF	Citations
479	Surface characteristics of UV-irradiated polyurethane elastomers extended with 1,4-bis(hydroxymethyl)alkane diols. <b>2008</b> , 254, 6754-6761		28
478	Poly(tetramethylene ether) glycol containing acetal linkages: New PTMG-based polyol for chemically recyclable polyurethane thermoplastic elastomer. <b>2008</b> , 46, 1893-1901		17
477	Synthesis and thermomechanical characterization of polyurethane elastomers extended with 1,4-bis(hydroxymethyl)alkane diols. <b>2008</b> , 109, 1840-1849		44
476	Synthesis and characterization of novel, biodegradable, thermally stable chitin-based polyurethane elastomers. <b>2008</b> , 110, 769-776		58
475	Molecular engineering of chitin based polyurethane elastomers. <i>Carbohydrate Polymers</i> , <b>2008</b> , 74, 149-158.3	10.3	103
474	Molecular engineering and properties of chitin based shape memory polyurethanes. <i>Carbohydrate Polymers</i> , <b>2008</b> , 74, 621-626	10.3	68
473	Click Chemistry as a Promising Tool for Side-Chain Functionalization of Polyurethanes. <i>Macromolecules</i> , <b>2008</b> , 41, 4622-4630	5.5	114
472	XRD studies of chitin-based polyurethane elastomers. <b>2008</b> , 43, 136-41		62
471	Recycling and disposal of flame retarded materials. <b>2008</b> , 213-230		1
470	Synthesis and Characterization of Novel Polyurethane Composites Based on Hybrid Inorganic/Organic Phosphazene-Containing Microspheres. <b>2009</b> , 294, 605-610		11
469	Structural characteristics of UV-irradiated polyurethane elastomers extended with 1,4-bis(hydroxymethyl)alkane diols. <b>2009</b> , 113, 2843-2850		21
468	XRD studies of polyurethane elastomers based on chitin/1,4-butane diol blends. <i>Carbohydrate Polymers</i> , <b>2009</b> , 76, 183-187	10.3	71
467	Thermo-mechanical characteristics of UV-irradiated polyurethane elastomers extended with 1,4-bis(hydroxymethyl)alkane diols. <b>2009</b> , 267, 1811-1816		13
466	Recycling and recovery routes of plastic solid waste (PSW): a review. <b>2009</b> , 29, 2625-43		1225
465	On-demand click functionalization of polyurethane films and foams. <b>2009</b> , 50, 5362-5367		35
464	XRD studies of UV-irradiated chitin based polyurethane elastomers. <i>Carbohydrate Polymers</i> , <b>2009</b> , 77, 54-58	10.3	27
463	Surface characteristics of UV-irradiated chitin-based polyurethane elastomers. <i>Carbohydrate Polymers</i> , <b>2009</b> , 77, 621-627	10.3	25

462	Evaluation of biocompatibility and mechanical behavior of polyurethane elastomers based on chitin/1,4-butane diol blends. <b>2009</b> , 44, 18-22		54
461	Evaluation of biocompatibility and mechanical behavior of chitin-based polyurethane elastomers. Part-II: Effect of diisocyanate structure. <b>2009</b> , 44, 23-8		39
460	Surface characteristics of polyurethane elastomers based on chitin/1,4-butane diol blends. <b>2009</b> , 44, 182-5		34
459	Aqueous cationic polyurethane dispersions from vegetable oils. <b>2010</b> , 3, 329-33		52
458	Thermosetting (bio)materials derived from renewable resources: A critical review. <i>Progress in Polymer Science</i> , <b>2010</b> , 35, 487-509	29.6	690
457	The valorization of plastic solid waste (PSW) by primary to quaternary routes: From re-use to energy and chemicals. <b>2010</b> , 36, 103-129		275
456	Surface characteristics of UV-irradiated chitin-based shape memory polyurethanes. <i>Carbohydrate Polymers</i> , <b>2010</b> , 80, 229-234	10.3	21
455	Kinetics and Mechanism of the Chemical Degradation of Flexible Polyurethane Foam Wastes with Dimethyl H-phosphonate with Different Catalysts. <b>2010</b> , 47, 983-990		11
454	Carbon Adsorbents from Polycarbonate Pyrolysis Char Residue: Hydrogen and Methane Storage Capacities <b>2010</b> , 24, 3394-3400		26
453	Catalytic Air Gasification of Plastic Waste (Polypropylene) in a Fluidized Bed. Part II: Effects of Some Operating Variables on the Quality of the Raw Gas Produced Using Olivine as the In-Bed Material. <b>2011</b> , 50, 11815-11821		37
452	Cytotoxicity and mechanical behavior of chitin-bentonite clay based polyurethane bio-nanocomposites. <b>2011</b> , 49, 1131-6		46
451	Polyurethanes. <b>2011</b> ,		4
450	Waste Management, Recycling and Regeneration of Filled Polymers. <b>2011</b> , 921-957		
449	Synthesis, characterization and infrared emissivity property of optically active polyurethane derived from tyrosine. <b>2011</b> , 52, 3745-3751		31
448	Improvement of performance behavior of cellulosic fiber with polyurethane acrylate copolymers. <i>Carbohydrate Polymers</i> , <b>2011</b> , 86, 928-935	10.3	15
447	Chemical degradation of thermoplastic polyurethane for recycling polyether polyol. <i>Fibers and Polymers</i> , <b>2011</b> , 12, 857-863	2	33
446	Effects of the addition of LiCl, LiClO <sub>4</sub> , and LiCF <sub>3</sub> SO <sub>3</sub> salts on the chemical structure, density, electrical, and mechanical properties of rigid polyurethane foam composite. <b>2011</b> , 51, 1137-1144		26
445	Preparation and Characterization of Aqueous Oil-Modified Polyurethane. <b>2011</b> , 239-242, 1665-1669		

444	Thermochemical Treatment of Plastic Solid Waste. <b>2011</b> , 233-242		12
443	Recycling issues in polymer matrix composites. <b>2012</b> , 337-367		6
442	Plastics waste management and resource recovery in India. <b>2012</b> , 10, 90		8
441	Solidification Thickness Dependent Electrostriction of Polyurethane Films. <b>2012</b> , 53, 1806-1809		14
440	Recycling and Disposal Methods for Polyurethane Foam Wastes. <b>2012</b> , 16, 167-175		106
439	Auto shredder residue recycling: Mechanical separation and pyrolysis. <b>2012</b> , 32, 852-8		52
438	Washing of waste prior to landfilling. <b>2012</b> , 32, 869-78		23
437	A review [Synthesis of carbon nanotubes from plastic wastes. <b>2012</b> , 195-196, 377-391		139
436	Modification of cellulosic fibers by UV-irradiation. Part II: after treatments effects. <b>2012</b> , 51, 743-8		23
435	Thermal degradation behavior of rigid and soft polyurethanes based on methylene diphenyl diisocyanate using evolved gas analysis-(gas chromatography)mass spectrometry. <b>2012</b> , 98, 236-241		23
434	Medium-temperature conversion of biomass and wastes into liquid products, a review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 6455-6475	16.2	47
433	Recycling Thermoset Composite Materials. <b>2012</b> , 1		4
432	Preparation of Thermoplastic Polyurethane Composites Based on Reclaimed Polyurethane Foam and Ground Fluoroelastomer: Effect of Pretreatment of Fluoroelastomer through Solid-State Mechanochemical Milling. <b>2012</b> , 28, 63-80		3
431	Modification of cellulosic fiber with polyurethane acrylate copolymers. Part I: Physicochemical properties. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 397-404	10.3	44
430	Retrieving and converting energy from polymers: deployable technologies and emerging concepts. <b>2013</b> , 6, 3467		59
429	Transdisciplinary Research in Sustainable Operations [An Application to Closed-Loop Supply Chains. <b>2013</b> , 22, 245-268		34
428	Resin pellets from beaches of the Portuguese coast and adsorbed persistent organic pollutants. <b>2013</b> , 130, 62-69		186
427	Degradation process investigation of thermoplastic polyurethane elastomer in supercritical methanol. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 2520-2528	4.7	11


426	Chitin and Chitosan Based Blends, Composites and Nanocomposites. <b>2013</b> , 55-119		16
425	Dynamic performance characteristics of an innovative Hybrid Composite Floor Plate System under human-induced loads. <b>2013</b> , 96, 590-600		26
424	Antimicrobial and pilling evaluation of the modified cellulosic fabrics using polyurethane acrylate copolymers. <b>2013</b> , 56, 99-105		15
423	Deactivation and regeneration of a Ni supported hierarchical Beta zeolite catalyst used in the hydroreforming of the oil produced by LDPE thermal cracking. <b>2013</b> , 109, 679-686		40
422	Synthesis and characterization of polyurethane/titanium dioxide nanocomposites obtained by in situ polymerization. <i>Polymer Bulletin</i> , <b>2013</b> , 70, 1819-1833	2.4	39
421	Health Hazards and Recycling and Life Cycle Assessment of Nanomaterials and Their Composites. <b>2013</b> , 279-294		
420	Recycling of thermoset polyurethane foams. <b>2013</b> , 53, 1357-1363		20
419	The behaviors of H <sub>2</sub> , CH <sub>4</sub> , C <sub>2</sub> H <sub>4</sub> and C <sub>3</sub> H <sub>6</sub> from the decomposition of polypropylene by NiO/SiAl catalyst. <b>2013</b> , 15, 37-41		1
418	Properties of the modified cellulosic fabrics using polyurethane acrylate copolymers. <i>Carbohydrate Polymers</i> , <b>2013</b> , 94, 866-73	10.3	14
417	A new hyperspectral imaging based device for quality control in plastic recycling. <b>2013</b> ,		4
416	Study of Waste Rigid Polyurethane Plastic Foam Insulation Recycling and Recovery. <b>2013</b> , 743, 195-198		
415	Study on the Effect of 1,2-PDO and DEA on Reaction Efficiency of Alcoholysis Processes for Rigid Polyurethane Foam. <b>2013</b> , 295-298, 91-94		
414	Porous Carbons from Plastic Waste. <b>2013</b> , 1-25		10
413	Creation of Adhesive Force between Laminated Sheets of Aluminum and Polyurethane by Homogeneous Low Energy Electron Beam Irradiation Prior to Hot-Press. <b>2013</b> , 54, 1795-1799		11
412	Creation of Adhesive Force between Laminated Sheets of Polyurethane (PU) and Polytetrafluoroethylene (PTFE) by Homogeneous Low Energy Electron Beam Irradiation Prior to Hot-Press for Bio-Adaptable Application. <b>2013</b> , 54, 1166-1170		14
411	. <b>2013</b> ,		
410	Evaluation of the Suitability of Low-Density Polyethylene (LDPE) Waste as Fine Aggregate in Concrete. <b>2014</b> , 33, 409		16
409	Characterization of polyurethan skin agglomerates for acoustic insulation from impact noise. <b>2014</b> , 17, 210-215		5

408	From Thermosetting to Thermoplastic: A Novel One-Pot Approach to Recycle Polyurethane Wastes via Reactive Compounding with Diethanolamine. <b>2014</b> , 30, 221-236		2
407	The Influence of Polyurethane Component on the Properties of Polyurethane-Rubber Composites Obtained from Waste Materials. <b>2014</b> , 603, 27-36		1
406	The effect of TiO <sub>2</sub> nanostructures on self-degrading polyurethane foams. <b>2014</b> ,		
405	Glycolysis recycling of rigid waste polyurethane foam from refrigerators. <b>2014</b> , 35, 2676-84		23
404	UV irradiation fatigue resistance improvement of azo photochromic compound using polyurethane-chitosan double shell encapsulation. <b>2014</b> , 131, n/a-n/a		7
403	Synthesis and molecular characterization of chitosan based polyurethane elastomers using aromatic diisocyanate. <b>2014</b> , 66, 26-32		68
402	Environmental Issues in Automotive Industry. <b>2014</b> ,		4
401	An overview of mechanical properties and durability of glass-fibre reinforced recycled mixed plastic waste composites. <b>2014</b> , 62, 98-112		52
400	Biobased Biodegradable Waterborne Hyperbranched Polyurethane as an Ecofriendly Sustainable Material. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2730-2738	8.3	114
399	Preparation and Properties of Graphene Oxide-Modified Waterborne Polyurethane-Acrylate Hybrids. <b>2014</b> , 53, 1408-1416		16
398	Polymers surface interactions with molten iron: A theoretical study. <b>2014</b> , 443, 107-111		6
397	Recycling of polymers: a review. <b>2014</b> , 7, 1579-93		264
396	A direct quantitative agar-plate based assay for analysis of <i>Pseudomonas protegens</i> Pf-5 degradation of polyurethane films. <b>2014</b> , 95, 311-319		16
395	Synthesis and shape memory performance of polyurethane/graphene nanocomposites. <i>Reactive and Functional Polymers</i> , <b>2014</b> , 74, 16-21	4.6	69
394	Characteristics of glycolysis products of polyurethane foams made with polyhydric alcohol liquefied <i>Cryptomeria japonica</i> wood. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 101, 60-64	4.7	18
393	Pulverized polyurethane foam particles reinforced rigid polyurethane foam and phenolic foam. <b>2014</b> , 131, n/a-n/a		27
392	Characteristics and the recovery potential of plastic wastes obtained from landfill mining. <i>Journal of Cleaner Production</i> , <b>2014</b> , 80, 80-86	10.3	110
391	Nitrogenous emissions from the catalytic pyrolysis of waste rigid polyurethane foam. <b>2014</b> , 108, 143-150		18

390	Biocompatibility and microscopic evaluation of polyurethane/poly(methyl methacrylate)/titanium dioxide based composites for dental applications. <b>2014</b> , 131, n/a-n/a	20
389	Recovery of carbon fibres and production of high quality fuel gas from the chemical recycling of carbon fibre reinforced plastic wastes. <b>2014</b> , 92, 107-114	35
388	High Adhesive Force between Laminated Sheets of Copper and Polyurethane Improved by Homogeneous Low Energy Electron Beam Irradiation (HLEBI) Prior to Hot-Press. <b>2014</b> , 55, 561-565	7
387	Biopolymers and Biocomposites. <b>2014</b> , 1-11	
386	Synthesis of Trifunctional Polyacetal Polyols with Various Main-Chain Structures and Properties of Chemically Recyclable Crosslinked Polyurethanes Prepared Therefrom. <b>2015</b> , 72, 7-15	
385	Thermoplastic polyurethane synthesis with modified montmorillonite prepared by torque rheometry: Investigation of morphological, thermal, chemical, and physical properties. <b>2015</b> , 132, n/a-n/a	4
384	Life Cycle Analysis on Regenerating and Energy Recovery of Plastic Solid Waste Management in Shanghai. <b>2015</b> , 768, 426-433	2
383	Flexible thermoplastic composite of Polyvinyl Butyral (PVB) and waste of rigid Polyurethane foam. <b>2015</b> , 25, 175-180	8
382	Gasification of waste rigid polyurethane foam: optimizing operational conditions. <b>2015</b> , 17, 560-565	12
381	New insights into the microbial degradation of polyurethanes. <b>2015</b> , 5, 41839-41854	62
380	Mechanical, thermal and rheological properties of hollow glass microsphere filled thermoplastic polyurethane composites blended by normal vane extruder. <b>2015</b> , 44, 306-313	19
379	Synthesis and characterization of polydimethyl siloxane-based polyurethane elastomers using toluene diisocyanate. <b>2015</b> , 47, 669-680	2
378	Synthetic Ni-talc as filler for producing polyurethane nanocomposites. <b>2015</b> , 132, n/a-n/a	23
377	Hydroreforming of the oils from LDPE thermal cracking over Ni/Ru and Ru supported over hierarchical Beta zeolite. <b>2015</b> , 144, 287-294	33
376	Cross-linking kinetics of hyperbranched epoxy cured hyperbranched polyurethane and optimization of reaction conversion by central composite design. <b>2015</b> , 127, 230-238	14
375	Bio-based polyurethane reinforced with cellulose nanofibers: a comprehensive investigation on the effect of interface. <i>Carbohydrate Polymers</i> , <b>2015</b> , 122, 202-11	10.3 105
374	Electroactive shape memory performance of polyurethane/graphene nanocomposites. <i>Reactive and Functional Polymers</i> , <b>2015</b> , 88, 1-7	4.6 50
373	Effect of reactive organoclay on physicochemical properties of vegetable oil-based waterborne polyurethane nanocomposites. <b>2015</b> , 5, 11524-11533	51

372	Modeling of glycolysis of flexible polyurethane foam wastes by artificial neural network methodology. <b>2015</b> , 64, 1111-1120		20
371	Preparation of High Density Polyethylene/Waste Polyurethane Blends Compatibilized with Polyethylene-Graft-Maleic Anhydride by Radiation. <i>Materials</i> , <b>2015</b> , 8, 1626-1635	3.5	8
370	Polyurethane/ground tire rubber composite foams based on polyglycerol: Processing, mechanical and thermal properties. <b>2015</b> , 34, 708-717		17
369	Thermoset composites reinforced with recycled cotton textile residues. <b>2015</b> , 1,		24
368	A new efficient method for the processing of post-consumer polypropylene and other polyolefin wastes into polar waxes. <b>2015</b> , 46, 62-7		7
367	Grafting from approach to the synthesis of photo-degrading polyurethane foams utilizing 2,2-dimethylolpropionic acid functionalized nano-TiO <sub>2</sub> . <b>2015</b> , 77, 345-353		3
366	Manufacturing of Natural Fibre Reinforced Polymer Composites. <b>2015</b> ,		31
365	Bio-nanocomposites from Natural Fibre Derivatives: Manufacturing and Properties. <b>2015</b> , 233-265		5
364	Synthesis and characterization of siloxane-based polyurethane elastomers using hexamethylene diisocyanate. <b>2015</b> , 47, 625-635		8
363	A critical review on cellulose: From fundamental to an approach on sensor technology. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 41, 402-412	16.2	173
362	Radiation-Induced Grafting with One-Step Process of Waste Polyurethane onto High-Density Polyethylene. <i>Materials</i> , <b>2015</b> , 9,	3.5	5
361	Single-phase product obtained via crude glycerine depolymerisation of polyurethane elastomer: structure characterisation and rheological behaviour. <b>2016</b> , 65, 946-954		31
360	Preparation and Characterization of Polyurethane Films Using Corn ( <i>Zea mays</i> L.) Oil-based Polyol. <b>2016</b> , 43, 01004		
359	High Adhesive Force between Laminated Sheets of Titanium and Polyurethane Improved by Homogeneous Low Energy Electron Beam Irradiation Prior to Hot-Press. <b>2016</b> , 57, 368-372		0
358	Use of waste rigid polyurethane for making carbon foam with fireproofing and anti-ablation properties. <b>2016</b> , 101, 332-339		21
357	Effects of accelerated environmental aging on glass fiber reinforced thermoset polyurethane composites. <b>2016</b> , 94, 370-378		44
356	From polymer waste to potential main industrial products: Actual state of recycling and recovering. <b>2016</b> , 46, 905-946		90
355	Microbial degradation, cytotoxicity and antibacterial activity of polyurethanes based on modified castor oil and polycaprolactone. <b>2016</b> , 27, 1860-1879		25



354	Synthesis and characterisation of polyurethane elastomers with semi-products obtained from polyurethane recycling. <b>2016</b> , 85, 26-37	23
353	Synthesis of thermally and mechanically improved polyurethane-urea elastomers by using novel diamines as chain extenders. <b>2016</b> , 16, 411-418	10
352	Preparation of bio-polyols by liquefaction of hardwood residue and their application in the modification of polyurethane foams. <b>2016</b> , 31, 918-924	6
351	Material Recycling and Resource Recovery. <b>2016</b> , 95-126	
350	Polyurethane types, synthesis and applications  review. <b>2016</b> , 6, 114453-114482	597
349	Recycling of Other Layered Mixed Plastics or Resins: Polyurethanes. <b>2016</b> , 223-234	1
348	Rigid biofoam composites as eco-efficient construction materials. <b>2016</b> , 275-304	5
347	Performance of supercritical methanol in polyurethane degradation. <b>2016</b> , 64, 02002	3
346	Thermal degradation study of pure rigid polyurethane in oxidative and non-oxidative atmospheres. <b>2016</b> , 120, 269-283	31
345	Regenerated thermosetting styrene-co-acrylonitrile sandwich composite panels reinforced by jute fibre: structures and properties. <b>2016</b> , 39, 109-117	4
344	Eco-Friendly Vegetable Oil-Based Metalworking Fluid (MWFs) from Modification of Glycolyzed Products of Polyurethane. <b>2016</b> , 19, 455-466	4
343	Optically active polyurethane based on tyrosine: synthesis, characterization and study of hydrogen bonding. <b>2016</b> , 48, 807-812	8
342	Preparation, characterization of microencapsulated ammonium polyphosphate and its flame retardancy in polyurethane composites. <b>2016</b> , 173, 205-212	30
341	Source separation and recycling potential of municipal solid waste in Ghana. <b>2016</b> , 27, 210-226	11
340	Chitin and chitosan based polyurethanes: A review of recent advances and prospective biomedical applications. <b>2016</b> , 86, 630-45	136
339	Heparin based polyurethanes: A state-of-the-art review. <b>2016</b> , 84, 101-11	31
338	Removing lead from aqueous solutions using different low-cost abundant adsorbents. <b>2016</b> , 57, 5025-5034	3
337	A novel and inexpensive method for producing activated carbon from waste polyethylene terephthalate bottles and using it to remove methylene blue dye from aqueous solution. <b>2016</b> , 57, 9871-9880	9

336	Glycolysis of rigid polyurethane-polyisocyanurate foams with reduced flammability. <b>2016</b> , 48, 340-353		12
335	Study of the correlation between flexible food packaging peeling resistance and surface composition for aluminum-metallized BOPP films aged at 60°C. <b>2017</b> , 93, 4-17		6
334	Development circumstances of four recycling industries (used motor oil, acidic sludge, plastic wastes and blown bitumen) in the world. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 72, 605-624	16.2	11
333	Processing and properties of an ethylene-vinyl acetate blend foam incorporating ethylene-vinyl acetate and polyurethane waste foams. <b>2017</b> , 134,		7
332	Thermochemical study of the briquetting process of mattress foams. <b>2017</b> , 159, 88-95		4
331	Internal structure and crystallinity investigation of segmented thermoplastic polyurethane elastomer degradation in supercritical methanol. <i>Polymer Degradation and Stability</i> , <b>2017</b> , 140, 17-24	4.7	10
330	Structural effects on the reprocessability and stress relaxation of crosslinked polyhydroxyurethanes. <b>2017</b> , 134, 44984		69
329	Development of High Performance Polyurethane Elastomers Using Vanillin-Based Green Polyol Chain Extender Originating from Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 4582-4588	8.3	67
328	The use of citric acid in the production of polyols for rigid PUR-PIR foams. <i>Polymer Bulletin</i> , <b>2017</b> , 74, 283-305	2.4	5
327	Influence of acid and alkali pre-treatments on thermal degradation behaviour of polyisocyanurate foam and its carbon morphology. <i>Polymer Degradation and Stability</i> , <b>2017</b> , 141, 104-118	4.7	5
326	Rigid Polyurethane Foam Fabrication Using Medium Chain Glycerides of Coconut Oil and Plastics from End-of-Life Vehicles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 6237-6246	8.3	31
325	A review on thermal and catalytic pyrolysis of plastic solid waste (PSW). <b>2017</b> , 197, 177-198		414
324	Utilization of microbial oil obtained from crude glycerol for the production of polyol and its subsequent conversion to polyurethane foams. <b>2017</b> , 235, 309-315		25
323	Hydrolysis of aromatic polyurethane in water under high pressure of CO <sub>2</sub> . <b>2017</b> , 55, 2004-2010		13
322	Chitin in Rubber Based Blends and Micro Composites. <b>2017</b> , 71-107		3
321	Effect of microcapsulated red phosphorus on flame retardant, thermal and mechanical properties of thermoplastic polyurethane composites filled with huntite&hydromagnesite mineral. <i>Polymer Degradation and Stability</i> , <b>2017</b> , 135, 121-129	4.7	53
320	Effect of expandable graphite on flame retardant, thermal and mechanical properties of thermoplastic polyurethane composites filled with huntite&hydromagnesite mineral. <b>2017</b> , 647, 70-80		55
319	Added value of lignin as lignin-based hybrid polyurethane for a compatibilizing agent. <b>2017</b> , 223, 012033		9

318	Fabrication of polyurethane and thermoplastic polyurethane nanofiber by controlling the electrospinning parameters. <b>2017</b> , 4, 105308		6
317	Recycled waste black polyurethane sponges for solar vapor generation and distillation. <b>2017</b> , 206, 63-69		89
316	In Situ Polymerization and Characteristics of Biodegradable Waterborne Thermally-Treated Attapulgite Nanorods and Polyurethane Composites. <b>2017</b> , 27, 244-256		2
315	Assessing the feasibility of waste management solutions based on sorting at source and recycling. <b>2017</b> , 19, 216		1
314	Towards zero waste manufacturing: A multidisciplinary review. <i>Journal of Cleaner Production</i> , <b>2017</b> , 168, 1230-1243	10.3	84
313	Synthesis of lactate (LA)-based poly(ester-urethane) using hydroxyl-terminated LA-based oligomers from a microbial secretion system. <b>2017</b> , 24, 1		10
312	Thermoplastic polyurethanes with glycolysate intermediates from polyurethane waste recycling. <i>Polymer Degradation and Stability</i> , <b>2017</b> , 144, 411-419	4-7	20
311	Improving thermal stability and mechanical performance of polypropylene/polyurethane blend prepared by radiation-based techniques. <b>2017</b> , 94, 366-375		16
310	Development of polyester binders for the production of sustainable polyurethane coatings: Technological characterization and life cycle assessment. <i>Journal of Cleaner Production</i> , <b>2017</b> , 164, 171-178	10.3	20
309	A comparative study on selective properties of Kraft lignin/natural rubber composites containing different plasticizers. <b>2017</b> , 26, 453-466		19
308	Flame retardancy of flexible polyurethane foams. <b>2017</b> , 171-200		6
307	Rheological characteristics of oligomeric semiproducts gained via chemical degradation of polyurethane foam using crude glycerin in the presence of different catalysts. <b>2017</b> , 57, 891-900		10
306	Innovative porous polyurethane-polyisocyanurate foams based on rapeseed oil and modified with expandable graphite. <b>2017</b> , 95, 316-323		38
305	Introduction. <b>2017</b> , 1-21		3
304	The Structure and Properties of the Degradation Products of Diethylenetriamine Polyurethane Based on 1,5-naphthylene Diisocyanate. <b>2017</b> , 44, 39-44		1
303	Mechanical Properties of Nonwoven Reinforced Thermoplastic Polyurethane Composites. <i>Materials</i> , <b>2017</b> , 10,	3-5	7
302	Recycling of Polyurethanes. <b>2017</b> , 323-358		13
301	Polyurethane-Based Biocomposites. <b>2017</b> , 525-546		1

300	Materials selection of thermoplastic matrices for green natural fibre composites for automotive anti-roll bar with particular emphasis on the environment. <b>2018</b> , 5, 111-119		28
299	Molecular Simulation of Thermoplastic Polyurethanes under Large Tensile Deformation. <i>Macromolecules</i> , <b>2018</b> , 51, 1850-1864	5.5	24
298	Recycling of polymer waste with SiC/Al <sub>2</sub> O <sub>3</sub> reinforcement for rapid tooling applications. <b>2018</b> , 15, 124-127		23
297	Life cycle assessment of bottled water: A case study of Green2O products. <b>2018</b> , 76, 734-743		27
296	Interaction of toxic chemicals with microplastics: A critical review. <b>2018</b> , 139, 208-219		378
295	Polyurethane elastomers based on amphiphilic poly(caprolactone)-b-poly(butadiene)-b-poly(caprolactone) triblockcopolymers. <b>2018</b> , 56, 1162-1172		8
294	Production of a sustainable paving material through chemical recycling of waste PET into crumb rubber modified asphalt. <i>Journal of Cleaner Production</i> , <b>2018</b> , 180, 682-688	10.3	142
293	Synthesis, characterization of novel chitosan based water dispersible polyurethanes and their potential deployment as antibacterial textile finish. <b>2018</b> , 111, 485-492		33
292	A molecular modeling study for miscibility of polyimide/polythene mixing systems with/without compatibilizer. <b>2018</b> , 38, 891-898		7
291	Case study in Korea of manufacturing SRF for polyurethanes recycling in e-wastes. <b>2018</b> , 20, 1950-1960		5
290	Polymer engineering based on reversible covalent chemistry: A promising innovative pathway towards new materials and new functionalities. <i>Progress in Polymer Science</i> , <b>2018</b> , 80, 39-93	29.6	285
289	Physico-chemical properties of excavated plastic from landfill mining and current recycling routes. <b>2018</b> , 76, 55-67		49
288	Synthesis of 1,4-Butanediol di(3-Diethylamino-2-Hydroxypropyl Alcohol) Ether and Cationic Waterborne Polyurethane with High Solids Content. <b>2018</b> , 37, 906-912		8
287	Thermo-Chemical Decomposition Study of Polyurethane Elastomer Through Glycerolysis Route with Using Crude and Refined Glycerine as a Transesterification Agent. <b>2018</b> , 26, 166-174		23
286	Visible light photocatalytic activities of BiOBr-activated carbon (derived from waste polyurethane) composites by hydrothermal process. <b>2018</b> , 6, 3735-3744		13
285	Environment-friendly chemical recycling of aliphatic polyurethanes by hydrolysis in a CO <sub>2</sub> -water system. <b>2018</b> , 135, 45897		17
284	A composite approach for modeling deformation behaviors of thermoplastic polyurethane considering soft-hard domains transformation. <b>2018</b> , 11, 381-388		5
283	The changes of crosslink density of polyurethanes synthesised with using recycled component. Chemical structure and mechanical properties investigations. <i>Progress in Organic Coatings</i> , <b>2018</b> , 115, 41-48	4.8	38

282	Eco-friendly paving materials using waste PET and reclaimed asphalt pavement. <b>2018</b> , 25, 237-247		7
281	Microbial Secretion System of Lactate-Based Oligomers and Its Application. <i>ACS Symposium Series</i> , <b>2018</b> , 41-60	0.4	2
280	Reuse of Tires Textile Fibers in Plastic Compounds: Is this Scenario Environmentally Sustainable?. <i>Procedia CIRP</i> , <b>2018</b> , 69, 944-949	1.8	18
279	Performance Behavior of Chitosan Based Water Dispersible Polyurethanes: Physicochemical Properties. <i>Fibers and Polymers</i> , <b>2018</b> , 19, 2219-2228	2	1
278	Design of Azomethine Diols for Efficient Self-Healing of Strong Polyurethane Elastomers. <b>2018</b> , 23,		2
277	Resource or waste? A perspective of plastics degradation in soil with a focus on end-of-life options. <b>2018</b> , 4, e00941		60
276	Control of Process Settings for Large-Scale Additive Manufacturing With Sustainable Natural Composites. <b>2018</b> ,		1
275	Novel anti-ultraviolet performances of thin films polyurethane containing nano-mixed oxides CeO <sub>2</sub> -TiO <sub>2</sub> . <b>2018</b> , 10, 168781401881677		5
274	Polyurethane Foams: Past, Present, and Future. <i>Materials</i> , <b>2018</b> , 11,	3.5	218
273	The influence of different glycerine purities on chemical recycling process of polyurethane waste and resulting semi-products. <b>2018</b> , 67, 1368-1377		7
272	Products derived from waste plastics (PC, HIPS, ABS, PP and PA6) via hydrothermal treatment: Characterization and potential applications. <b>2018</b> , 207, 742-752		37
271	Degradability of Polymers. <b>2018</b> , 29-44		7
270	Introduction to Mechanical Recycling and Chemical Depolymerization. <b>2018</b> , 45-55		2
269	Mechanical Recycling via Regrinding, Rebonding, Adhesive Pressing, and Molding. <b>2018</b> , 57-65		2
268	Chemical Depolymerization of Polyurethane Foams via Combined Chemolysis Methods. <b>2018</b> , 89-96		5
267	On Development of Functionally Graded Material Through Fused Deposition Modelling Assisted Investment Casting from Al <sub>2</sub> O <sub>3</sub> /SiC Reinforced Waste Low Density Polyethylene. <b>2018</b> , 71, 2479-2485		12
266	Renewable polyols for advanced polyurethane foams from diverse biomass resources. <b>2018</b> , 9, 4258-4287		90
265	2.31 Material Recycling. <b>2018</b> , 1018-1042		7

264	Lightweight hybrid organic-inorganic geopolymers obtained using polyurethane waste. <b>2018</b> , 185, 285-292		31
263	Nanofiber technology in the ex vivo expansion of cord blood-derived hematopoietic stem cells. <b>2018</b> , 14, 1707-1718		13
262	Development and Life Cycle Assessment of Polyester Binders Containing 2,5-Furandicarboxylic Acid and Their Polyurethane Coatings. <b>2018</b> , 26, 3626-3637		16
261	A study on recyclable waterborne polyurethane process with a photo and thermal hybrid treatment system. <i>Reactive and Functional Polymers</i> , <b>2018</b> , 127, 168-176	4.6	5
260	Valuable secondary raw material by chemical recycling of polyisocyanurate foams. <i>Polymer Degradation and Stability</i> , <b>2018</b> , 156, 151-160	4.7	8
259	Plastic waste as a feedstock for solar-driven H <sub>2</sub> generation. <b>2018</b> , 11, 2853-2857		125
258	Approaches to Sustainable and Continually Recyclable Cross-Linked Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11145-11159	8.3	196
257	Generation of Pd@Ni-CNTs from Polyethylene Wastes and Their Application in the Electrochemical Hydrogen Evolution Reaction. <i>ChemistrySelect</i> , <b>2018</b> , 3, 5321-5325	1.8	7
256	Construction Applications of Polyurethane Foam Wastes. <b>2018</b> , 115-125		7
255	Morphology, dynamics, and order development in a thermoplastic polyurethane with melt blended POSS. <b>2019</b> , 57, 1133-1142		14
254	Hydrophobization of Furan-Containing Polyurethanes via Diels-Alder Reaction with Fatty Maleimides. <i>Polymers</i> , <b>2019</b> , 11,	4.5	
253	Lignin-Based Polyurethanes: Opportunities for Bio-Based Foams, Elastomers, Coatings and Adhesives. <i>Polymers</i> , <b>2019</b> , 11,	4.5	92
252	Stretchable Conductive Hybrid Films Consisting of Cubic Silsesquioxane-capped Polyurethane and Poly(3-hexylthiophene). <i>Polymers</i> , <b>2019</b> , 11,	4.5	7
251	Urethane-silica functionalized graphene oxide for enhancing mechanical property and fire safety of waterborne polyurethane composites. <b>2019</b> , 492, 298-308		21
250	Plastics in municipal solid waste: What, where, how and when?. <b>2019</b> , 37, 1061-1062		6
249	Metal-catalysed Poly(Ethylene) terephthalate and polyurethane degradations by glycolysis. <b>2019</b> , 902, 120972		20
248	Fabrication of thermoplastic polyurethane (TPU) / thermoplastic amide elastomer (TPAE) composite foams with supercritical carbon dioxide and their mechanical properties. <b>2019</b> , 48, 127-136		16
247	Highly Effective Flame-Retardant Rigid Polyurethane Foams: Fabrication and Applications in Inhibition of Coal Combustion. <i>Polymers</i> , <b>2019</b> , 11,	4.5	17

246	Composites with Excellent Insulation and High Adaptability for Lightweight Envelopes. <i>Energies</i> , <b>2019</b> , 12, 53	3.1	4
245	Synthesis of polyurethane foam from ultrasonically decrosslinked automotive seat cushions. <b>2019</b> , 85, 557-562		14
244	Depolymerization of End-of-Life Poly(lactide) via 4-Dimethylaminopyridine-Catalyzed Methanolysis. <i>ChemistrySelect</i> , <b>2019</b> , 4, 6845-6848	1.8	27
243	Two in One: Modified Polyurethane Foams by Dip-Coating of Halloysite Nanotubes with Acceptable Flame Retardancy and Absorbency. <b>2019</b> , 304, 1900213		11
242	Polyurethane and Its Derivatives. <b>2019</b> , 225-240		2
241	Preparation and Characterization of Rigid Polyurethane Foams with Different Loadings of Lignin-Derived Polycarboxylic Acids. <b>2019</b> , 2019, 1-6		5
240	Recycling of End-of-Life Poly(bisphenol A carbonate) via Alkali Metal Halide-Catalyzed Phenolysis. <b>2019</b> , 8, 822-827		16
239	Introduction of Reversible Urethane Bonds Based on Vanillyl Alcohol for Efficient Self-Healing of Polyurethane Elastomers. <b>2019</b> , 24,		9
238	Experimental analysis of waste polyurethane from household appliances and its utilization possibilities. <b>2019</b> , 243, 105-115		10
237	Sustainable rigid polyurethane foams based on recycled polyols from chemical recycling of waste polyurethane foams. <b>2019</b> , 136, 47916		14
236	Depolymerization of End-of-Life Poly(bisphenol A carbonate) via Transesterification with Acetic Anhydride as Depolymerization Reagent. <i>ChemistrySelect</i> , <b>2019</b> , 4, 2639-2643	1.8	13
235	Kinetic triplet determination and modified mechanism function construction for thermo-oxidative degradation of waste polyurethane foam using conventional methods and distributed activation energy model method. <b>2019</b> , 175, 1-13		42
234	LCA of plastic waste recovery into recycled materials, energy and fuels in Singapore. <b>2019</b> , 145, 67-77		86
233	Control of Process Settings for Large-Scale Additive Manufacturing With Sustainable Natural Composites. <b>2019</b> , 141,		5
232	Recycling of plastic waste into tiles with reduced flammability and improved tensile strength. <b>2019</b> , 124, 299-307		31
231	Investigation on mechanical properties of polyurethane hybrid nanocomposite foams reinforced with roselle fibers and silica nanoparticles. <b>2019</b> , 5, 1-12		20
230	Hydrogenative Depolymerization of End-of-Life Poly-(Bisphenol A Carbonate) Catalyzed by a Ruthenium-MACHO-Complex. <b>2019</b> , 8, 1410-1412		10
229	High-Performance Nylon-6 Sustainable Filaments for Additive Manufacturing. <i>Materials</i> , <b>2019</b> , 12,	3.5	19

228	Treatments of electric arc furnace dust and halogenated plastic wastes: A review. <b>2019</b> , 7, 102856	29
227	Influence of polyurethane dispersion as surface treatment on mechanical, thermal and dynamic mechanical properties of laminated woven carbon-fiber-reinforced polyamide 6 composites. <b>2019</b> , 160, 535-545	16
226	Regeneration and utilization of waste phenolic formaldehyde resin: A performance investigation. <b>2019</b> , 136, 47445	3
225	Recycling glass fiber thermoplastic composites from wind turbine blades. <i>Journal of Cleaner Production</i> , <b>2019</b> , 209, 1252-1263	10.3 114
224	Polyurethane and Its Derivatives. <b>2019</b> , 1-16	1
223	Carbon Nanotubes as a Resourceful Product Derived from Waste Plastic: A Review. <b>2019</b> , 915-934	6
222	Effect of hygrothermal aging in distilled and saline water on the mechanical behaviour of mixed short fibre/woven composites. <b>2019</b> , 207, 816-825	22
221	Synthesis of rigid polyurethane foams from phosphorylated biopolyols. <b>2019</b> , 26, 3174-3183	7
220	Wet and Coarse: The Robustness of Two-Stage Crude Glycerol Mediated Solvothermal Liquefaction of Residual Biomass. <b>2020</b> , 11, 2171-2181	4
219	Waste Management: A Paradigm Shift. <b>2020</b> , 337-363	7
218	Depolymerization of End-of-Life Poly(bisphenol A carbonate) via Alkali-Metal-Halide-Catalyzed Methanolysis. <b>2020</b> , 9, 359-363	13
217	Kinetics of cross-linking processes of fast-curing polyurethane system. <b>2020</b> , 683, 178435	18
216	Superparamagnetic nanocomposites derived from waste polyurethane foam for the removal of Rhodamine B: batch and continuous column studies. <b>2020</b> , 55, 2879-2889	5
215	Preparation and characterization of biodegradable polyurethane composites containing oyster shell powder. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 3325-3347	2.4 8
214	Molecular weight switchable polyurethanes enable melt processing. <b>2020</b> , 384, 123287	5
213	Chemisches Recycling von gemischten Kunststoffabfällen als ergänzender Recyclingpfad zur Erhöhung der Recyclingquote. <b>2020</b> , 72, 47-60	11
212	Evaluation of biological degradation of polyurethanes. <b>2020</b> , 39, 107457	61
211	Sugar-templated conductive polyurethane-polypyrrole sponges for wide-range force sensing. <b>2020</b> , 383, 123103	21



210	Hydroxyethylcellulose-g-poly(lactic acid) blended polyurethanes: Preparation, characterization and biological studies. <b>2020</b> , 151, 993-1003		11
209	Recycling of bio-polyurethane foam using high power ultrasound. <b>2020</b> , 186, 122072		2
208	Synthesis of bio-based polyurethane foam modified with rosin using an environmentally-friendly process. <i>Journal of Cleaner Production</i> , <b>2020</b> , 276, 124203	10.3	8
207	Chemical recycling of poly(thiourethane) thermosets enabled by dynamic thiourethane bonds. <b>2020</b> , 11, 6879-6883		14
206	3D Printing of Polymer Waste for Improving People's Awareness about Marine Litter. <i>Polymers</i> , <b>2020</b> , 12,	4.5	14
205	Polyurethane Recycling and Disposal: Methods and Prospects. <i>Polymers</i> , <b>2020</b> , 12,	4.5	50
204	Polyurethane/Zinc Oxide (PU/ZnO) Composite-Synthesis, Protective Property and Application. <i>Polymers</i> , <b>2020</b> , 12,	4.5	22
203	Construction from destruction using a photo-triggered self-propagating degradable polyurethane as a one-pot epoxy. <b>2020</b> , 11, 6215-6220		3
202	Hydrogenative Depolymerization of End-of-Life Polycarbonates by an Iron Pincer Complex. <b>2020</b> , 9, 818-821		1
201	Biodegradability and ecotoxicity of polyurethane foams: A review. <b>2020</b> , 1-46		9
200	Analysis and synthesis of ecological installations for recycling waste polyurethane foams. <b>2020</b> , 971, 022034		
199	On the Method of Pulse-Heated Analysis of Solid Reactions (PHASR) for Polyolefin Pyrolysis. <b>2021</b> , 14, 4214-4227		3
198	Depolymerization of Technical-Grade Polyamide 66 and Polyurethane Materials through Hydrogenation. <b>2021</b> , 14, 4176-4180		8
197	Environmentally benign production of cupric oxide nanoparticles and various utilizations of their polymeric hybrids in different technologies. <i>Coordination Chemistry Reviews</i> , <b>2020</b> , 419, 213378	23.2	42
196	Optimization analysis of polyurethane based mixed matrix gas separation membranes by incorporation of gamma-cyclodextrin metal organic frame work. <b>2020</b> , 74, 3527-3543		8
195	Recycling of polyurethane scraps via acidolysis. <b>2020</b> , 395, 125102		25
194	Recycling of Flexible Polyurethane Foam by Split-Phase Alcoholysis: Identification of Additives and Alcoholizing Agents to Reach Higher Efficiencies. <b>2020</b> , 13, 3835		10
193	Characterization and Preparation of Furanic-Glyoxal Foams. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4

192	Lignin-based smart materials: a roadmap to processing and synthesis for current and future applications. <b>2020</b> , 7, 2237-2257		70
191	Influence of Sepiolite and Lignin as Potential Synergists on Flame Retardant Systems in Polylactide (PLA) and Polyurethane Elastomer (PUE). <i>Materials</i> , <b>2020</b> , 13,	3-5	9
190	Kinetic study of depolymerization of polyurethanes: A experimental and computational insight for chemical recycling. <b>2020</b> , 52, 611-619		2
189	Recycled-based thermosetting material obtained from the decomposition of polyurethane foam wastes with castor oil. <b>2020</b> , 22, 1793-1800		2
188	Beyond Mechanical Recycling: Giving New Life to Plastic Waste. <b>2020</b> , 59, 15402-15423		265
187	3D Printed Thermoplastic Polyurethane Filled with Polyurethane Foams Residues. <b>2020</b> , 28, 1560-1570		13
186	Unraveling 1,4-Butanediol Metabolism in KT2440. <b>2020</b> , 11, 382		20
185	Die nahste Generation des Recyclings [neues Leben ff Kunststoffe]. <b>2020</b> , 132, 15524-15548		29
184	Efficient and green catalytic degradation of high crosslinked rigid PU foam and recovery value-added products via selective cleavage of C=O and C-N bonds. <i>Polymer Degradation and Stability</i> , <b>2020</b> , 181, 109262	4-7	4
183	Synthetic materials to bionanocomposites: an overview. <b>2020</b> , 1-20		2
182	Flexible and compatible polymer composite blends based on polyurethane/sodium ionomer/lignin and their properties. <b>2020</b> , 137, 48885		
181	Mechanical properties of a STF capsule filled flexible polyurethane composite foam. <b>2020</b> , 269, 127580		7
180	MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. <b>2020</b> , 32, 1703-1747		197
179	Mechanical Characterization of Gypsum Composites Containing Inert and Insulation Materials from Construction and Demolition Waste and Further Application as A Gypsum Block. <i>Materials</i> , <b>2020</b> , 13,	3-5	7
178	Hydrogenative Depolymerization of End-of-Life Poly(bisphenol A carbonate) with in situ Generated Ruthenium Catalysts. <i>ChemistrySelect</i> , <b>2020</b> , 5, 4231-4234	1-8	5
177	Polyphosphazene nanotube and modified waterborne polyurethane prepared by in situ polymerization. <b>2020</b> , 29, 493-500		3
176	Design and Characterization of Gypsum Mortars Dosed with Polyurethane Foam Waste PFW. <i>Materials</i> , <b>2020</b> , 13,	3-5	6
175	Hydrolysis and Solvolysis as Benign Routes for the End-of-Life Management of Thermoset Polymer Waste. <b>2020</b> , 11, 183-201		8

174	Plastic waste in a circular economy. <b>2020</b> , 481-512		15
173	Flame-retardant polyurethane elastomer based on aluminum salt of monomethylphosphinate. <b>2021</b> , 143, 2953-2961		1
172	Simple process for separation and recycling of nylon 6 and polyurethane components from waste nylon 6/polyurethane debris. <i>Textile Reseach Journal</i> , <b>2021</b> , 91, 18-27	1.7	2
171	Dynamic pyrolysis behaviors, products, and mechanisms of waste rubber and polyurethane bicycle tires. <b>2021</b> , 402, 123516		27
170	Assessment of the economic recycling potential of a glycolysis treatment of rigid polyurethane foam waste: A case study from Thailand. <b>2021</b> , 280, 111638		2
169	Selectively Depolymerizable Polyurethanes from Unsaturated Polyols Cleavable by Olefin Metathesis. <i>Macromoleculer Rapid Communications</i> , <b>2021</b> , 42, e2000571	4.8	2
168	Foam/Film Alternating Multilayer Structure with High Toughness and Low Thermal Conductivity Prepared via Microlayer Coextrusion. <b>2021</b> , 39, 566-572		2
167	Copper-polydopamine composite coating decorating UHMWPE fibers for enhancing the strength and toughness of rigid polyurethane composites. <b>2021</b> , 93, 106883		5
166	Current technologies for plastic waste treatment: A review. <i>Journal of Cleaner Production</i> , <b>2021</b> , 282, 124523	10.3	55
165	Reviewing the thermo-chemical recycling of waste polyurethane foam. <b>2021</b> , 278, 111527		22
164	Thermal, mechanical and morphological properties of polyurethane/zirconia loading. <b>2021</b> , 16, 454-462		0
163	Glycolysis: an efficient route for recycling of end of life polyurethane foams. <b>2021</b> , 28, 1		12
162	Recent progress in micro-/nano-fibrillar reinforced polymeric composite foams. <b>2021</b> , 61, 926-941		10
161	Bisphthalonitrile-based Thermosets as Heat-resistant Matrices for Fiber Reinforced Plastics. <b>2021</b> , 63, 64-101		1
160	Improvement in mechanical properties of recycled polypropylene composite by controlling the length distribution of glass fibers. <b>2021</b> , 42, 2171-2179		3
159	Optimizing Flame Retardancy and Durability of Melamine-Formaldehyde/Solid-Urban-Waste Composite Panels. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
158	Recycling Polyurethanes through Transcarbamylation. <b>2021</b> , 6, 4175-4183		8
157	Multistage Chemical Recycling of Polyurethanes and Dicarbamates: A Glycolysis/Hydrolysis Demonstration. <b>2021</b> , 13, 3583		7

156	Synthesis and characterization of poly(urethane)/silver composites via in situ polymerization. <b>2021</b> , 42, 2704		1
155	Functionalized acrylic polyhydroxy urethanes as molecular tool box for photocurable thermosets and 3D printing. <b>2021</b> , 59, 882-892		1
154	Green Recycling Process for Polyurethane Foams by a Chem-Biotech Approach. <b>2021</b> , 14, 4234-4241		5
153	Manufacturing energy and greenhouse gas emissions associated with plastics consumption. <b>2021</b> , 5, 673-686		47
152	Preparation, characterization, and influence of polyurea coatings on their layered composite materials based on flexible rebonded polyurethane. <b>2021</b> , 61, 1392-1404		5
151	Understanding enhanced char formation in the thermal decomposition of PVC resin: Role of intermolecular chlorine loss. <b>2021</b> , 26, 102186		1
150	Quality assessment of pellets and briquettes made from glued wood waste. <b>2021</b> , 79, 1153		5
149	Recycling of polyurethane by acidolysis: The effect of reaction conditions on the properties of the recovered polyol. <b>2021</b> , 219, 123561		9
148	Catalytic Hydrogenation of Polyurethanes to Base Chemicals: From Model Systems to Commercial and End-of-Life Polyurethane Materials. <b>2021</b> , 1, 517-524		12
147	Physical and thermo-mechanical properties of shape memory polyurethane containing reversible chemical cross-links. <b>2021</b> , 116, 104336		9
146	Tribological performance of self-lubricating polyurethane elastomer compounding with the modified ultra-high molecular weight polyethylene. <b>2021</b> , 61, 2033-2042		2
145	Potential Chemicals from Plastic Wastes. <b>2021</b> , 26,		6
144	Strategic Possibility Routes of Recycled PET. <i>Polymers</i> , <b>2021</b> , 13,	4-5	22
143	Residues from rigid foams and graphene for the synthesis of hybrid polyurethane flexible foams composites. <b>2021</b> , 12, 2128-2137		2
142	Polyols and polyurethanes from renewable sources: past, present and future part 1: vegetable oils and lignocellulosic biomass. 1		5
141	Valorization of Lignin Side-Streams into Polyols and Rigid Polyurethane Foams: Contribution to the Pulp and Paper Industry Biorefinery. <i>Energies</i> , <b>2021</b> , 14, 3825	3-1	4
140	Thermally Remendable Polyurethane Network Cross-Linked via Reversible Diels-Alder Reaction. <i>Polymers</i> , <b>2021</b> , 13,	4-5	4
139	Combined Hydrothermal Liquefaction of Polyurethane and Lignocellulosic Biomass for Improved Carbon Recovery. <b>2021</b> , 35, 10630-10640		0

138	Wood adhesives from waste-free recycling depolymerisation of flexible polyurethane foams. <i>Journal of Cleaner Production</i> , <b>2021</b> , 305, 127142	10.3	3
137	Strategic Approach Towards Plastic Waste Valorization: Challenges and Promising Chemical Upcycling Possibilities. <b>2021</b> , 14, 4007-4027		17
136	Ground Tire Rubber Filled Flexible Polyurethane Foam-Effect of Waste Rubber Treatment on Composite Performance. <i>Materials</i> , <b>2021</b> , 14,	3.5	4
135	Fabrication of high transparent, mechanical strong, and flame retardant waterborne polyurethane composites by incorporating phosphorus-silicon functionalized cellulose nanocrystals. <b>2022</b> , 139, 51496		0
134	Comparative study on the pyrolysis and leachability of washed/unwashed electric arc furnace dust-PVC mixtures and their residues. <b>2021</b> , 9, 105410		5
133	Crosslink density and mechanical property evolution during the curing of polyurethane-urea/sodium silicate hybrid composites. 095400832110394		
132	Breakthrough in polyurethane bio-recycling: An efficient laccase-mediated system for the degradation of different types of polyurethanes. <b>2021</b> , 132, 23-30		9
131	Hydrogenative Depolymerization of Polyurethanes Catalyzed by a Manganese Pincer Complex. <b>2021</b> ,		5
130	Zinc-Catalyzed Chemical Recycling of Poly( $\epsilon$ -caprolactone) Applying Transesterification Reactions. <i>ChemistrySelect</i> , <b>2021</b> , 6, 8063-8067	1.8	2
129	Recent progress in self-healing polyurethanes based on Diels-Alder reaction. <b>2021</b> , 1990, 012047		0
128	Why is Recycling of Postconsumer Plastics so Challenging?. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 4325-4346	4.3	26
127	Shape recovery and reprocessable polyurethanes crosslinked with double decker silsesquioxane via Diels-Alder reaction. <b>2021</b> , 230, 124042		6
126	Evaluation of Manganese Catalysts for the Hydrogenative Deconstruction of Commercial and End-of-Life Polyurethane Samples. <b>2021</b> ,		1
125	Synthesis of novel curcumin-based aqueous polyurethane dispersions for medical textile diligences with potential of antibacterial activities. <i>Polymer Bulletin</i> , 1	2.4	1
124	The impacts of weathering on concentration and bioaccessibility of organic pollutants associated with plastic pellets (nurdles) in coastal environments. <b>2021</b> , 170, 112592		7
123	Recent advances in the polyurethane-based adsorbents for the decontamination of hazardous wastewater pollutants. <b>2021</b> , 417, 125960		22
122	State of the art in recycling waste thermoplastics and thermosets and their applications in construction. <b>2021</b> , 174, 105776		13
121	In-situ polymerization of polyurethane/aniline oligomer functionalized graphene oxide composite coatings with enhanced mechanical, tribological and corrosion protection properties. <b>2021</b> , 425, 130006		3

120	Recirculation potential of post-consumer /industrial bio-based plastics through mechanical recycling - Techno-economic sustainability criteria and indicators. <i>Polymer Degradation and Stability</i> , <b>2021</b> , 183, 109217	4-7	29
119	Managing Plastic Waste. 255-293		1
118	Encyclopedia of Sustainability Science and Technology. <b>2012</b> , 8794-8848		2
117	Recycling Technologies. <b>2019</b> , 63-118		1
116	PU Rigid Composite Foams Containing Micron-Sized Fillers. <b>2019</b> , 27-101		1
115	Sustainability Issues Affecting the Successful Management and Recycling of End-of-Life Vehicles in Canada and the United States. <b>2014</b> , 223-245		1
114	Recycling Polyurethane Foam and its Use as Filler in Renovation Mortar with Thermal Insulating Effect. <b>2013</b> , 141-170		2
113	Exceptionally flame-retardant flexible polyurethane foam composites: synergistic effect of the silicone resin/graphene oxide coating. <b>2021</b> , 15, 969-983		6
112	Direct transformation of waste children's toys to high quality products using 3D printing: A waste-to-wealth and sustainable approach. <i>Journal of Cleaner Production</i> , <b>2020</b> , 267, 122188	10-3	6
111	Preparation and properties of shear thickening fluid (STF) capsule filled graded buffer composites. <b>2020</b> , 9, 10982-10990		3
110	Environment-Related Issues. <b>2015</b> , 199-220		1
109	Tris(hydroxydiethylene)-2-hydroxypropane-1,2,3-tricarboxylate for rigid PUR-PIR foams. <b>2015</b> , 35, 743-751		4
108	Microwave-Assisted Recycling Process to Recover Fiber from Fiberglass Polyester Composites. <b>2019</b> , 22,		4
107	Influência do uso do polioli reciclado obtido pela glicólise na preparação da espuma rígida de poliuretano. <b>2012</b> , 22, 200-205		1
106	Synthesis of Lignin-Based Polyurethanes: A Mini-Review. <b>2019</b> , 16, 345-352		13
105	Polymer Consumption, Environmental Concerns, Possible Disposal Options, and Recycling for Water Treatment. 200-222		3
104	Waste Disposal. <b>2020</b> , 659-690		2
103	Progress in Recycling of Composites with Polycyanurate Matrix. <b>2014</b> , 04, 167-183		4

102	Design and Multicriteria Optimization of a Two-Stage Reactive Extrusion Process for the Synthesis of Thermoplastic Polyurethanes. <b>2012</b> , 04, 497-514	1
101	Recycling and Disposal Methods for Polyurethane Wastes: A Review. <b>2019</b> , 09, 39-51	21
100	Thermal properties of kenaf fiber-based nanocellulose reinforced polyurethane composites. <b>2021</b> , 846, 012010	
99	Polymer foams as advanced energy absorbing materials for sports applicationsA review. <b>2022</b> , 139, 51714	2
98	Synthesis and Study of Morphology and Biocompatibility of Xanthan Gum/Titanium Dioxide-Based Polyurethane Elastomers. <i>Polymers</i> , <b>2021</b> , 13,	4-5 0
97	Thermosets. 205-236	
96	Recycling Technologies. <b>2018</b> , 1-56	
95	Recovery of Monomers. 145-173	
94	Development of Environmentally FriendlyPolyurethane Degradation Methods. <b>2018</b> , 54, 343-348	
93	Encyclopedia of Sustainability Science and Technology. <b>2019</b> , 1-57	1
92	Introduction. <b>2019</b> , 1-26	
91	Responsible Consumption and Production. <b>2020</b> , 1-9	
90	Polymer Consumption, Environmental Concerns, Possible Disposal Options, and Recycling for Water Treatment. <b>2020</b> , 691-708	1
89	A Brief Introduction to the Polyurethanes According to the Principles of Green Chemistry. <b>2021</b> , 9, 1929	2
88	Waste Disposal. <b>2020</b> , 829-859	
87	Responsible Consumption and Production. <b>2020</b> , 544-551	1
86	Polymer Consumption, Environmental Concerns, Possible Disposal Options, and Recycling for Water Treatment. <b>2020</b> , 971-989	
85	Waste Disposal. 43-74	2

84	A Review of Technologies for Managing Plastic Solid Wastes. <b>2022</b> , 25-49		
83	Blending Polyurethane Thermosets Using Dynamic Urethane Exchange. <i>Macromolecules</i> ,	5.5	6
82	Value-added products from waste plastics using dissolution technique. <i>Materials Today: Proceedings</i> , <b>2022</b> ,	1.4	0
81	Technology of obtaining fiber-filled shoe soles. <b>2022</b> ,		
80	Back-to-monomer recycling of polycondensation polymers: opportunities for chemicals and enzymes.. <b>2021</b> , 12, 947-970		5
79	Functional polymer materials for modern marine biofouling control. <i>Progress in Polymer Science</i> , <b>2022</b> , 127, 101516	29.6	6
78	Feasibility of Usage of Waste Plastic as a Bitumen Modifier: A Review. <i>Lecture Notes in Civil Engineering</i> , <b>2022</b> , 829-840	0.3	
77	A comprehensive review on polymer matrix composites: material selection, fabrication, and application. <i>Polymer Bulletin</i> , 1	2.4	7
76	Utilization of Polyurethane Foam Dust in Development of Thermal Insulation Composite. <i>Buildings</i> , <b>2022</b> , 12, 126	3.2	1
75	Depolymerization of Poly(1,2-propylene carbonate) via Ring Closing Depolymerization and Methanolysis. <i>ChemistrySelect</i> , <b>2022</b> , 7,	1.8	1
74	Nanocatalyzed upcycling of the plastic wastes for a circular economy. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 458, 214422	23.2	2
73	Recovery of Waste Polyurethane from E-Waste. Part II. Investigation of the Adsorption Potential for Wastewater Treatment.. <i>Materials</i> , <b>2021</b> , 14,	3.5	4
72	Nanocatalyzed Upcycling of the Plastic Wastes for a Circular Economy. <i>SSRN Electronic Journal</i> ,	1	
71	Recycling of Plastic Waste, with Particular Emphasis on Thermal MethodsReview. <i>Energies</i> , <b>2022</b> , 15, 2114	3.1	4
70	Synthesis of Rigid Polyurethane Foams Incorporating Polyols from Chemical Recycling of Post-Industrial Waste Polyurethane Foams.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	1
69	Advanced and traditional processing of thermoplastic polyurethane waste. <i>Polymer Degradation and Stability</i> , <b>2022</b> , 198, 109880	4.7	1
68	Sustainable Alternatives to Nondegradable Medical Plastics. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	0
67	Rational Design of Chemical Catalysis for Plastic Recycling. <i>ACS Catalysis</i> , 4659-4679	13.1	9



66	Selective removal of Au(III) from wastewater by pyridine-modified chitosan.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 286, 119307	10.3	4
65	Exploring the Potential to Repurpose Flexible Moulded Polyurethane Foams as Acoustic Insulators.. <i>Polymers</i> , <b>2021</b> , 14,	4.5	2
64	Fabrication of an Anisotropically Flexible Carbon Fiber Reinforced Composite Panel. <i>Fibers and Polymers</i> ,	2	
63	Progress in degradation behavior of most common types of functionalized polymers: a review.. <i>Macromolecular Rapid Communications</i> , <b>2022</b> , e2200254	4.8	2
62	Additively manufactured thermoplastic polyurethane (TPU) mold for concrete casting of complex structure. <i>Rapid Prototyping Journal</i> , <b>2022</b> , ahead-of-print,	3.8	2
61	Few-walled carbon nanotubes derived from shoe waste plastics: Effect of feedstock composition on synthesis, properties and application as CO2 reduction electrodes. <i>Journal of Cleaner Production</i> , <b>2022</b> , 131868	10.3	0
60	Data_Sheet_1.PDF. <b>2020</b> ,		
59	Data_Sheet_2.xlsx. <b>2020</b> ,		
58	Health risk assessment and mitigation of emerging contaminants: A call for an integrated approach. <b>2022</b> , 325-342		
57	Polyurethanes Reinforced with Polyethylene Nanocrystals: Synthesis, Triple Shape Memory, and Reprocessing Properties. <i>Macromolecules</i> ,	5.5	0
56	A short review on polyurethane polymer composite. <i>Materials Today: Proceedings</i> , <b>2022</b> ,	1.4	1
55	The fabricating methods, properties and engineering applications of foamed concrete with polyurethane: a review. <i>International Journal of Environmental Science and Technology</i> , 1	3.3	
54	Investigative Studies on Recycled High-Density Polyethylene and Polypropylene Pellets for Stabilization of Kaolinite Rich Soils. <i>Journal of Materials in Civil Engineering</i> , <b>2022</b> , 34,	3	
53	Recycling of Polyurethanes. <i>ACS Symposium Series</i> , 413-427	0.4	
52	Recycling of Polyurethanes Containing Flame-Retardants and Polymer Waste Transformed into Flame-Retarded Polyurethanes. <i>ACS Symposium Series</i> , 265-284	0.4	
51	Pyrolysis of Polyurethanes. Process Features and Composition of Reaction Products. <i>Russian Journal of Applied Chemistry</i> , <b>2022</b> , 95, 191-255	0.8	0
50	Polyurethane dispersions prepared from vegetable oil and their application as textile finishes. <i>Textile Reseach Journal</i> , 004051752211076	1.7	
49	An efficient synthesis of bio-based Poly(urethane-acrylate) by SiO2-Supported CeCl3·7H2O/NaI as recyclable Catalyst. <i>Results in Materials</i> , <b>2022</b> , 100294	2.3	0

48	Improving Thermal Reprocessability of Commercial Flexible Polyurethane Foam by Vitrimer Modification of the Hard Segments. <i>ACS Applied Polymer Materials</i> ,	4.3	1
47	Enhanced mechanical property, chemical resistance and abrasion durability of waterborne polyurethane based coating by incorporating highly dispersed polyacrylic acid modified graphene oxide. <i>Progress in Organic Coatings</i> , <b>2022</b> , 170, 106949	4.8	1
46	A review of manufacturing techniques for subcutaneous drug delivery implants. <i>Procedia CIRP</i> , <b>2022</b> , 110, 329-334	1.8	
45	Resource saving by optimization and machining environments for sustainable manufacturing: A review and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 166, 112660	16.2	6
44	Current Prospects for Plastic Waste Treatment. <b>2022</b> , 14, 3133		1
43	Green biobased P-N coating: Towards waste-minimization flame retardant flexible polyurethane foam.		0
42	Recovery of Green Polyols from Rigid Polyurethane Waste by Catalytic Depolymerization. <b>2022</b> , 14, 2936		1
41	Polyurethane ( PU ) based multifunctional materials: Emerging paradigm for functional textiles, smart, and biomedical applications.		1
40	tert-Amyl Alcohol-Mediated Deconstruction of Polyurethane for Polyol and Aniline Recovery.		0
39	Study on the Direct Transformation of Milk Bottle and Wood into WoodPlastic Composite through Injection Molding. <b>2022</b> , 6, 230		
38	Sustainable recycling technologies for thermoplastic polymers and their composites: A review of the state of the art.		0
37	Review on the pyrolysis products and thermal decomposition mechanisms of polyurethanes. <b>2022</b> , 168, 105723		1
36	Chitosan-Based Composite Beads for Removal of Anionic Dyes. <b>2022</b> , 47-73		0
35	Synthesis of Polyurethane Raw Material Using CO <sub>2</sub> as a Resource. <b>2022</b> , 22, 487-494		0
34	Synthesis of organic carbamates as polyurethane raw materials from CO <sub>2</sub> : the quest for metal alkoxides as regenerable reagents.		1
33	Curing Kinetics of Methylene Diphenyl DiisocyanateBased Polyurethane Elastomers. <b>2022</b> , 14, 3525		0
32	Multiobjective Optimization of Plastic Waste Sorting and Recycling Processes Considering Economic Profit and CO <sub>2</sub> Emissions Using Nondominated Sorting Genetic Algorithm II.		0
31	A Review of Rigid Polymeric Cellular Foams and Their Greener Tannin-Based Alternatives. <b>2022</b> , 14, 3974		0

30	Research advances in vegetable-oil-based pressure-sensitive adhesives. 1-15	○
29	Theoretical Study on the Hydrogenolysis of Polyurethanes to Improve the Catalytic Activities. <b>2022</b> , 61, 14662-14672	○
28	Recycling of Flexible Polyurethane Foams by Regrinding Scraps into Powder to Replace Polyol for Re-Foaming. <b>2022</b> , 15, 6047	○
27	Recycling and Upgrading Utilization of Polymer Plastics.	○
26	Mechanical Recycling. <b>2022</b> , 275-433	○
25	Performance characterization and pyrolysis kinetics of graphene-reinforced, green rigid polyurethane foam.	○
24	Subcritical Hydrothermal Liquefaction as a Pretreatment for Enzymatic Degradation of Polyurethane. <b>2022</b> , 7, 37757-37763	○
23	Advancing biological processing for valorization of plastic wastes. <b>2022</b> , 170, 112966	○
22	Combination of Dynamic and Coordination Chemistry Achieving Two-Method Recycling of Polyurethane.	1
21	Recycling Technologies for Polyurethane Wastes (A Survey).	○
20	Polyurethane/single wall carbon nanotube/polymethylmethacrylate nanocomposite: PM3 semi-empirical method, Monte Carlo applied. <b>2022</b> , 32,	○
19	New insights into urethane alcoholysis enable chemical full recycling of blended fabric waste.	○
18	Thermomechanical response of thermoplastic polyurethane used in MEX additive manufacturing over repetitive mechanical recycling courses. <b>2023</b> , 207, 110232	○
17	Study on Properties of Regenerated Fluorinated Polyurethane Rigid Foam Prepared by Degrading Waste Polyurethane. <b>2022</b> , 14, 15685	○
16	New Building Blocks for Self-Healing Polymers. <b>2022</b> , 14, 5394	2
15	Review on disposal, recycling and management of waste polyurethane foams: A way ahead. 0734242X2211460○	
14	Chitosan Composites for the Removal of Pollutants in Aqueous Environment. <b>2023</b> , 163-179	○
13	Study on the surface properties of the regenerated polyurethane foam micropowder via cryogenic pulverization and its application. <b>2023</b> ,	○

- 12 One More Step towards a Circular Economy for Thermal Insulation Materials Development of Composites Highly Filled with Waste Polyurethane (PU) Foam for Potential Use in the Building Industry. **2023**, 16, 782 ○
- 11 Plastic Waste: Challenges and Opportunities to Mitigate Pollution and Effective Management. **2023**, 17, ○
- 10 Chemical Recycling of Polyurethane Waste via a Microwave-Assisted Glycolysis Process. **2023**, 8, 4655-4666 ○
- 9 Modifying Poly(propylene carbonate) with Furan-based Non-Isocyanate Polyurethanes. 1
- 8 Fast synthesis of crosslinked self-blowing poly( $\beta$ -hydroxythioether) foams by decarboxylative-alkylation of thiols at room temperature. **2023**, 189, 111960 ○
- 7 Thermogravimetric studies, kinetic modeling and product analysis of the pyrolysis of model polymers for technical polyurethane applications. **2023**, 171, 105976 ○
- 6 Application of Different Chemical Recycling for Plastics. 26, 223-230 ○
- 5 Recycling waste polyurethane from the refrigeration industry as filler in SBR / NR composites for industrial applications. **2023**, 140, ○
- 4 Metal-catalyzed plastic depolymerization. **2023**, 101341 ○
- 3 Selective Separation of 4,4-Methylenedianiline, Isophoronediamine and 2,4-Toluenediamine from Enzymatic Hydrolysis Solutions of Polyurethane. **2023**, 41, 358-373 ○
- 2 Distribution, migration, and removal of N-containing products during polyurethane pyrolysis: A review. **2023**, 453, 131406 ○
- 1 Opportunities in Closed-Loop Molecular Recycling of End-of-Life Polyurethane. ○