Synthesis and characterization of polyurethane foams derived of fully renewable polyester polyols from sorbitol

DOI: 10.1016/j.eurpolymj.2017.10.020
European Polymer Journal, 2017, 97, 319-327.

#	Paper	IF	Citations
28	Novel Rigid Polyisocyanurate Foams from Synthesized Biobased Polyester Polyol with Enhanced Properties. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 6577-6589	8.3	18
27	Renewable polyols for advanced polyurethane foams from diverse biomass resources. *Polymer Chemistry*, **2018**, 9, 4258-4287	4.9	90
26	Preparation of poly(ethylene oxide) brush-grafted multiwall carbon nanotubes and their effect on morphology and mechanical properties of rigid polyurethane foam. *Polymer International*, **2018**, 67, 1545-1554	3.3	5
25	From D-sorbitol to five-membered bis(cyclo-carbonate) as a platform molecule for the synthesis of different original biobased chemicals and polymers. *Scientific Reports*, **2018**, 8, 9134	4.9	24
24	A Study of Rapeseed Oil-Based Polyol Substitution with Bio-based Products to Obtain Dimensionally and Structurally Stable Rigid Polyurethane Foam. *Journal of Polymers and the Environment*, **2018**, 26, 3834-3847	4.5	3
23	Moisture-mechanical performance improvement of thermal insulating polyurethane using paper production waste particles grafted with different coupling agents. *Construction and Building Materials*, **2019**, 208, 525-534	6.7	9
22	Silylation of epoxidized soybean oil with triethoxysilanes, synthesis and characterization of their polyurethanes. *Turkish Journal of Chemistry*, **2019**, 43, 1365-1382	1	2
21	Enzymatic recycling of thermoplastic polyurethanes: Synergistic effect of an esterase and an amidase and recovery of building blocks. *Waste Management*, **2019**, 85, 141-150	8.6	57
20	Isolation and characterization of different promising fungi for biological waste management of polyurethanes. *Microbial Biotechnology*, **2019**, 12, 544-555	6.3	39
19	Electromechanical losses evaluation by energy-efficient method using the electrostrictive composites: experiments and modeling. *Smart Materials and Structures*, **2019**, 28, 035024	3.4	5
18	Renewable natural resources as green alternative substrates to obtain bio-based non-isocyanate polyurethanes-review. *Critical Reviews in Environmental Science and Technology*, **2019**, 49, 173-211	11.1	57
17	From gas release to foam synthesis, the second breath of blowing agents. *European Polymer Journal*, **2020**, 140, 110029	5.2	23
16	Synthesis and Characterization of Fully Biobased Copolyether Polyols. *Industrial & Engineering Chemistry Research*, **2020**, 59, 10746-10753	3.9	6
15	Highly porous SiC cellular ceramics for efficient high-temperature PM removal. *Ceramics International*, **2020**, 46, 15249-15254	5.1	5
14	Solubility-governed architectural design of polyhydroxyurethane-graft-poly(Ɛ-caprolactone) copolymers. *Polymer Chemistry*, **2021**, 12, 196-208	4.9	6
13	Reviewing the thermo-chemical recycling of waste polyurethane foam. *Journal of Environmental Management*, **2021**, 278, 111527	7.9	22
12	The preparation of sorbitol and its application in polyurethane: a review. *Polymer Bulletin*, 1	2.4	5

11	Synthesis of polyols containing nitrogen-phosphorus from vegetable oil derivatives for polyurethane film applications. *Journal of Applied Polymer Science*, **2021**, 138, 50839	2.9	1
10	Structure-properties relationships of cellular materials from biobased polyurethane foams. *Materials Science and Engineering Reports*, **2021**, 145, 100608	30.9	20
9	Characterization of the enzymatic degradation of polyurethanes. *Methods in Enzymology*, **2021**, 648, 317-336	1.7	1
8	Degradation of recalcitrant polyurethane and xenobiotic additives by a selected landfill microbial community and its biodegradative potential revealed by proximity ligation-based metagenomic analysis.		1
7	Design and Synthesis of Conducting Polymer Bio-Based Polyurethane Produced from Palm Kernel Oil. *International Journal of Polymer Science*, **2022**, 2022, 1-13	2.4	2
6	Biodegradation of polyester polyurethane by the marine fungus Cladosporium halotolerans 6UPA1. *Journal of Hazardous Materials*, **2022**, 437, 129406	12.8	2
5	A Fully Biobased Aromatic Polyester Polyol for Polyisocyanurate Rigid Foams: Poly(diethylene furanoate). **2022**, 4, 6514-6520		0
4	Novel one-pot synthesis of polymeric hydrogels based on isocyanate click chemistry: Structural and functional characterization. **2022**, 29,		0
3	Sustainable cycloaliphatic polyurethanes: from synthesis to applications.		0
2	Mycoremediation of Micro-/Nanoplastics-Contaminated Soils. **2023**, 335-382		0
1	Genetic basis for the biodegradation of a polyether-polyurethane-acrylic copolymer by a landfill microbial community inferred by metagenomic deconvolution analysis. **2023**, 163367		0