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Hydroxyl-functional polyurethanes and polyesters:  
synthesis, properties and potential biomedical application

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Polymer International, 2012, 61, 1048-1060.

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#	Paper	IF	Citations
53	Poly(amide urethane)s with functional/reactive side groups based on a bis-cyclic bio-based monomer/coupling agent. <i>European Polymer Journal</i> , <b>2013</b> , 49, 853-864	5.2	22
52	Organocatalytic synthesis of (poly)hydroxyurethanes from cyclic carbonates and amines. <i>Polymer</i> , <b>2013</b> , 54, 5568-5573	3.9	97
51	A novel multifunctional coupler: the concept of coupling and proof of principle. <i>Chemical Communications</i> , <b>2013</b> , 49, 3288-90	5.8	24
50	Sustainable routes to polyurethane precursors. <i>Green Chemistry</i> , <b>2013</b> , 15, 1431	10	260
49	A library of multifunctional polyesters with "peptide-like" pendant functional groups. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2489-93	6.9	45
48	Renewable non-isocyanate based thermoplastic polyurethanes via polycondensation of dimethyl carbamate monomers with diols. <i>Macromolecular Rapid Communications</i> , <b>2013</b> , 34, 1569-74	4.8	89
47	Baylis-Hillman Reaction as a Versatile Platform for the Synthesis of Diverse Functionalized Polymers by Chain and Step Polymerization. <i>Macromolecules</i> , <b>2014</b> , 47, 1258-1268	5.5	24
46	Synthesis, Properties, and Applications of Ion-Containing Polyurethane Segmented Copolymers. <i>Macromolecular Chemistry and Physics</i> , <b>2014</b> , 215, 2161-2174	2.6	47
45	Di(glycerol carbonate) telechelic polyesters and polyolefins as precursors to polyhydroxyurethanes: an isocyanate-free approach. <i>Green Chemistry</i> , <b>2014</b> , 16, 1947-1956	10	87
44	Polyethylene Glycol Wrapped Potassium Bromide Assisted Chemical Fixation of Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 541-546	3.9	28
43	Non-isocyanate polyurethanes: synthesis, properties, and applications. <i>Polymers for Advanced Technologies</i> , <b>2015</b> , 26, 707-761	3.2	209
42	Isocyanate-Free Routes to Polyurethanes and Poly(hydroxy Urethane)s. <i>Chemical Reviews</i> , <b>2015</b> , 115, 12407-39	68.1	375
41	Synthesis and investigation of thermal and mechanical properties of in situ prepared biocompatible Fe <sub>3</sub> O <sub>4</sub> /polyurethane elastomer nanocomposites. <i>Polymer Bulletin</i> , <b>2015</b> , 72, 219-234	2.4	23
40	Nonisocyanate Biobased Poly(ester urethanes) with Tunable Properties Synthesized via an Environment-Friendly Route. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 2762-2770	8.3	29
39	Isocyanate-Free Route to Poly(carbohydrate urethane) Thermosets and 100% Bio-Based Coatings Derived from Glycerol Feedstock. <i>Macromolecules</i> , <b>2016</b> , 49, 7268-7276	5.5	42
38	Promising mechanical and adhesive properties of isocyanate-free poly(hydroxyurethane). <i>European Polymer Journal</i> , <b>2016</b> , 84, 404-420	5.2	82
37	The Synthesis and Applications of Non-Isocyanate Based Polyurethanes as Environmentally Friendly Green Coatings. <b>2016</b> , 301-315		4

36	Stereodivergent Carbamate Synthesis by Selective in Situ Trapping of Organic Carbonate Intermediates. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 1722-7	4.8	31
35	Nonisocyanate polyurethanes from six-membered cyclic carbonates: Catalysis and side reactions. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 44941	2.9	13
34	Synthesis and characterization of vegetable oil based polyurethane derived from low viscous bio aliphatic isocyanate: Adhesion strength to wood-wood substrate bonding. <i>Macromolecular Research</i> , <b>2017</b> , 25, 772-778	1.9	14
33	From Epoxide to Cyclodithiocarbonate Telechelic Polycyclooctene through Chain-Transfer Ring-Opening Metathesis Polymerization (ROMP): Precursors to Non-Isocyanate Polyurethanes (NIPUs). <i>Macromolecules</i> , <b>2017</b> , 50, 69-82	5.5	23
32	Rigid, bio-based polyamides from galactaric acid derivatives with elevated glass transition temperatures and their characterization. <i>Polymer</i> , <b>2017</b> , 124, 252-262	3.9	12
31	Polyhydroxyurethanes (PHUs) Derived from Diphenolic Acid and Carbon Dioxide and Their Application in Solvent- and Water-Borne PHU Coatings. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 14089-14100	3.9	25
30	Polyurethane-functionalized starch nanoparticles for the purification of biodiesel. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	10
29	A perspective approach to sustainable routes for non-isocyanate polyurethanes. <i>European Polymer Journal</i> , <b>2017</b> , 87, 535-552	5.2	232
28	Synthesis of Multiarm Star Polymer Based on Hyperbranched Polyester Core and Poly(E-caprolactone) Arms and Its Application in UV-Curable Coating. <i>ACS Omega</i> , <b>2018</b> , 3, 13928-13934	3.9	8
27	Solvent-Free Method for the Copolymerization of Labile Sugar-Derived Building Blocks into Polyamides. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 13504-13517	8.3	7
26	Structure-Property Relations in New Cyclic Galactaric Acid Derived Monomers and Polymers Therefrom: Possibilities and Challenges. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800077	4.8	4
25	Non-Isocyanate Polythiourethanes (NIPTUs) from Cyclodithiocarbonate Telechelic Polyethers. <i>Macromolecules</i> , <b>2019</b> , 52, 5838-5849	5.5	11
24	Mechanical and adhesive properties of hybrid epoxy-polyhydroxyurethane network polymers. <i>Polymer</i> , <b>2019</b> , 183, 121881	3.9	23
23	Non-isocyanate polyurethane nanoparticles prepared by nanoprecipitation. <i>European Polymer Journal</i> , <b>2019</b> , 114, 434-445	5.2	14
22	Renewable natural resources as green alternative substrates to obtain bio-based non-isocyanate polyurethanes-review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2019</b> , 49, 173-211	11.1	57
21	Functionalized polyesters derived from glycerol: Selective polycondensation methods toward glycerol-based polyesters by different catalysts. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48574	2.9	10
20	Development of L-Amino-Acid-Based Hydroxyl Functionalized Biodegradable Amphiphilic Polyesters and Their Drug Delivery Capabilities to Cancer Cells. <i>Biomacromolecules</i> , <b>2020</b> , 21, 171-187	6.9	10
19	Non-isocyanate polyurethane nanoprecipitation: Toward an optimized preparation of poly(hydroxy)urethane nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 589, 124371	5.1	3

18	Azido-Functionalized Polyurethane Designed for Making Tunable Elastomers by Click Chemistry. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 852-864	5.5	5
17	Silsesquioxane/Carbazole-Corballed Hybrid Porous Polymers with Flexible Nanopores for Efficient CO <sub>2</sub> Conversion and Luminescence Sensing. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 189-197	4.3	15
16	Bio-based healable non-isocyanate polyurethanes driven by the cooperation of disulfide and hydrogen bonds. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 7524-7532	4.9	12
15	Two Pathways of Thiolactone Incorporation into Polyurethanes and Their One-Pot Double Postfunctionalization. <i>Macromolecules</i> , <b>2020</b> , 53, 10785-10795	5.5	3
14	Optimization analysis of polyurethane based mixed matrix gas separation membranes by incorporation of gamma-cyclodextrin metal organic frame work. <i>Chemical Papers</i> , <b>2020</b> , 74, 3527-3543	1.9	8
13	Bio-based textile coatings and composites. <b>2020</b> , 357-402		2
12	Polyurethanes from Direct Organocatalytic Copolymerization of p-Tosyl Isocyanate with Epoxides. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 1593-1598	16.4	19
11	Polyurethanes from Direct Organocatalytic Copolymerization of p-Tosyl Isocyanate with Epoxides. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 1617-1622	3.6	5
10	Recent Developments in Lignin- and Tannin-Based Non-Isocyanate Polyurethane Resins for Wood Adhesives: A Review. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4242	2.6	32
9	The effect of copolymerization of cyclic dioxolane moieties on polyamide properties. <i>Polymer</i> , <b>2021</b> , 226, 123799	3.9	1
8	Multifaceted Synthesis, Properties and Applications of Polyurethanes and its Composites. <i>Current Organic Chemistry</i> , <b>2019</b> , 23, 361-389	1.7	4
7	Encyclopedia of Polymeric Nanomaterials. <b>2014</b> , 1-14		0
6	Study of the carbamate/aldehyde reaction, a new pathway towards NIPU materials. <i>Progress in Organic Coatings</i> , <b>2022</b> , 165, 106728	4.8	
5	Synthesis and characterization of 1K waterborne non-isocyanate polyurethane epoxy hybrid coating. <i>Progress in Organic Coatings</i> , <b>2022</b> , 169, 106915	4.8	
4	Synthesis of Nonisocyanate Poly(hydroxy)urethanes from Bis(cyclic carbonates) and Polyamines. <i>Polymers</i> , <b>2022</b> , 14, 2719	4.5	0
3	A review of fatty epoxide ring opening reactions: Chemistry, recent advances, and applications. <i>JAACS, Journal of the American Oil Chemists Society</i> ,	1.8	4
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