

# Polymers from Renewable Resources: A Challenge for the Materials

Macromolecules

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Effect of surface esterification with octenyl succinic anhydride on hydrophilicity of corn starch films. <i>Journal of Applied Polymer Science</i> , 2009, 114, 940-947.	1.3	28
2	Environmental biodegradation of synthetic polymers I. Test methodologies and procedures. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 1057-1072.	5.8	144
3	Homogeneous modification of carbon nanotubes with cellulose acetate. <i>Chinese Chemical Letters</i> , 2009, 20, 1376-1380.	4.8	8
4	Surface esterification of corn starch films: Reaction with dodecyl succinic anhydride. <i>Carbohydrate Polymers</i> , 2009, 78, 888-893.	5.1	57
5	Fusible, Elastic, and Biodegradable Polyesters of 2-Pyrone-4,6-Dicarboxylic Acid (PDC). <i>Polymer Journal</i> , 2009, 41, 1111-1116.	1.3	30
6	Controlled Polymerization of a Cyclic Diene Prepared from the Ring-Closing Metathesis of a Naturally Occurring Monoterpene. <i>Journal of the American Chemical Society</i> , 2009, 131, 7960-7961.	6.6	84
8	Raw and Renewable Polymers. <i>Handbook of Environmental Chemistry</i> , 2009, , 55-80.	0.2	4
9	Materials from renewable resources based on furan monomers and furan chemistry: work in progress. <i>Journal of Materials Chemistry</i> , 2009, 19, 8656.	6.7	224
10	ARGET ATRP for Versatile Grafting of Cellulose Using Various Monomers. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 2651-2659.	4.0	149
14	Green Chemistry: Principles and Practice. <i>Chemical Society Reviews</i> , 2010, 39, 301-312.	18.7	3,379
15	Improvement of UV stability and mechanical properties of biopolyesters through the addition of $\beta$ -carotene. <i>Polymer Degradation and Stability</i> , 2010, 95, 2162-2168.	2.7	55
16	Environmental and resource aspects of sustainable biocomposites. <i>Polymer Degradation and Stability</i> , 2010, 95, 2147-2161.	2.7	147
17	Olive stone as a renewable source of biopolyols. <i>Industrial Crops and Products</i> , 2010, 32, 7-12.	2.5	84
18	Polymers and copolymers from fatty acid-based monomers. <i>Industrial Crops and Products</i> , 2010, 32, 97-104.	2.5	38
19	Chitin- and chitosan-anchored methyltrioxorhenium: An innovative approach for selective heterogeneous catalytic epoxidations of olefins. <i>Journal of Catalysis</i> , 2010, 276, 412-422.	3.1	23
20	Lignin as Renewable Raw Material. <i>ChemSusChem</i> , 2010, 3, 1227-1235.	3.6	785
21	Vegetable oil-based thermosetting polymers. <i>European Journal of Lipid Science and Technology</i> , 2010, 112, 87-96.	1.0	150
23	Rapid Soybean Oil Copolymers Synthesis by Microwave-Assisted Cationic Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 801-808.	1.1	10

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24	Modification of Polysaccharides Through Controlled/Living Radical Polymerization Grafting Towards the Generation of High Performance Hybrids. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1751-1772.	2.0	141
25	Biomass into chemicals: Conversion of sugars to furan derivatives by catalytic processes. <i>Applied Catalysis A: General</i> , 2010, 385, 1-13.	2.2	719
26	Microstructure and properties of polyurethanes derived from castor oil. <i>Polymer Degradation and Stability</i> , 2010, 95, 2175-2184.	2.7	140
27	The polymerization products of epoxidized oleic acid and epoxidized methyl oleate with cis-1,2-cyclohexanedicarboxylic anhydride and triethylamine as the initiator: Chemical structures, thermal and electrical properties. <i>Materials Science and Engineering C</i> , 2010, 30, 951-962.	3.8	34
28	Syntheses of 5-hydroxymethylfurfural and levoglucosan by selective dehydration of glucose using solid acid and base catalysts. <i>Applied Catalysis A: General</i> , 2010, 383, 149-155.	2.2	177
29	<i>Miscanthus sinensis</i> fractionation by different reagents. <i>Chemical Engineering Journal</i> , 2010, 156, 49-55.	6.6	58
30	Combined organosolv and ultrafiltration lignocellulosic biorefinery process. <i>Chemical Engineering Journal</i> , 2010, 157, 113-120.	6.6	99
31	Foams from non-aqueous systems. <i>Current Opinion in Colloid and Interface Science</i> , 2010, 15, 359-364.	3.4	66
32	A novel strategy to functionalize carbon nanotubes with cellulose acetate using triazines as intermediated functional groups. <i>Carbohydrate Polymers</i> , 2010, 79, 775-782.	5.1	22
33	Influence of surface esterification with alkenyl succinic anhydrides on mechanical properties of corn starch films. <i>Carbohydrate Polymers</i> , 2010, 82, 1010-1013.	5.1	28
34	Inhomogeneity in the drying process of gelatin film formation: NMR microscopy and relaxation study. <i>Chemical Physics Letters</i> , 2010, 485, 343-347.	1.2	19
35	Reversible click chemistry at the service of macromolecular materials. 2. Thermoreversible polymers based on the Diels-Alder reaction of an furan/maleimide monomer. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2053-2056.	2.5	64
36	Biorenewable Multiphase Polymers. <i>MRS Bulletin</i> , 2010, 35, 194-200.	1.7	12
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39	Oleic and Undecylenic Acids as Renewable Feedstocks in the Synthesis of Polyols and Polyurethanes. <i>Polymers</i> , 2010, 2, 440-453.	2.0	87
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41	Surface Energy and Wettability of Spin-Coated Thin Films of Lignin Isolated from Wood. <i>Langmuir</i> , 2010, 26, 5484-5490.	1.6	125

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42	Biorenewable polyethylene terephthalate mimics derived from lignin and acetic acid. <i>Green Chemistry</i> , 2010, 12, 1704.	4.6	196
43	Renewable Rosin Acid-Degradable Caprolactone Block Copolymers by Atom Transfer Radical Polymerization and Ring-Opening Polymerization. <i>Macromolecules</i> , 2010, 43, 8747-8754.	2.2	85
44	Rapid Approach to Biobased Telechelics through Two One-Pot Thiol-Ene Click Reactions. <i>Biomacromolecules</i> , 2010, 11, 1646-1653.	2.6	99
45	Furans as offspring of sugars and polysaccharides and progenitors of a family of remarkable polymers: a review of recent progress. <i>Polymer Chemistry</i> , 2010, 1, 245-251.	1.9	264
46	Synthetic Polymers from Readily Available Monosaccharides. <i>Topics in Current Chemistry</i> , 2010, 295, 147-176.	4.0	39
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48	Oxypropylation of Rapeseed Cake Residue Generated in the Biodiesel Production Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 1526-1529.	1.8	31
49	Well-Defined Polymers from Biosourced Monomers: The Case of 2-(Methacryloyloxy)ethyl Tiglate. <i>Macromolecules</i> , 2010, 43, 1411-1415.	2.2	17
50	AAB-Sequence Living Radical Chain Copolymerization of Naturally Occurring Limonene with Maleimide: An End-to-End Sequence-Regulated Copolymer. <i>Journal of the American Chemical Society</i> , 2010, 132, 10003-10005.	6.6	248
51	Ring-Opening Polymerization of Lactides Catalyzed by Natural Amino-Acid Based Zinc Catalysts. <i>Inorganic Chemistry</i> , 2010, 49, 2360-2371.	1.9	177
52	Plant Oils as Platform Chemicals for Polyurethane Synthesis: Current State-of-the-Art. <i>Biomacromolecules</i> , 2010, 11, 2825-2835.	2.6	387
53	±-Oligofurans. <i>Journal of the American Chemical Society</i> , 2010, 132, 2148-2150.	6.6	246
54	Structure-Properties Relationship of Biosourced Stereocontrolled Polytriazoles from Click Chemistry Step Growth Polymerization of Diazide and Dialkyne Dianhydrohexitols. <i>Biomacromolecules</i> , 2010, 11, 2797-2803.	2.6	53
55	Challenges for Natural Monomers and Polymers: Novel Design Strategies and Engineering to Develop Advanced Polymers. <i>Designed Monomers and Polymers</i> , 2010, 13, 87-121.	0.7	78
57	Living Polymerization of Naturally Renewable Butyrolactone-Based Vinylidene Monomers by Ambiphilic Silicon Propagators. <i>Macromolecules</i> , 2010, 43, 4902-4908.	2.2	92
58	Carbohydrates in Sustainable Development II. <i>Topics in Current Chemistry</i> , 2010, , .	4.0	6
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62	Dinuclear Silylium-enolate Bifunctional Active Species: Remarkable Activity and Stereoselectivity toward Polymerization of Methacrylate and Renewable Methylene Butyrolactone Monomers. <i>Journal of the American Chemical Society</i> , 2011, 133, 13674-13684.	6.6	70
63	Degradable Rosin-Ester- $\epsilon$ -Caprolactone Graft Copolymers. <i>Biomacromolecules</i> , 2011, 12, 2171-2177.	2.6	105
64	Cinchona Alkaloids as Stereoselective Organocatalysts for the Partial Kinetic Resolution Polymerization of <i>rac</i> -Lactide. <i>Macromolecules</i> , 2011, 44, 4116-4124.	2.2	70
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67	Aliphatic polycarbonates and poly(ester carbonate)s from fatty acid derived monomers. <i>Polymer Chemistry</i> , 2011, 2, 2796.	1.9	26
68	Small band gap copolymers based on furan and diketopyrrolopyrrole for field-effect transistors and photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 1600-1606.	6.7	148
69	Ring-opening polymerization of an O-carboxyanhydride monomer derived from L-malic acid. <i>Polymer Chemistry</i> , 2011, 2, 2204.	1.9	71
71	Acyclic dienemetathesis: a versatile tool for the construction of defined polymer architectures. <i>Chemical Society Reviews</i> , 2011, 40, 1404-1445.	18.7	262
72	Towards "green" electronic materials. $\beta$ -Oligofurans as semiconductors. <i>Chemical Communications</i> , 2011, 47, 1976-1978.	2.2	196
73	Click synthesis and adhesive properties of novel biomass-based polymers from lignin-derived stable metabolic intermediate. <i>Polymer Journal</i> , 2011, 43, 648-653.	1.3	23
74	Benzotriazole containing conjugated polymers for multipurpose organic electronic applications. <i>Polymer Chemistry</i> , 2011, 2, 1029-1043.	1.9	139
75	The irruption of polymers from renewable resources on the scene of macromolecular science and technology. <i>Green Chemistry</i> , 2011, 13, 1061.	4.6	610
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81	Polysaccharides from Wastes of Vegetable Industrial Processing: New Opportunities for Their Eco-Friendly Re-Use. , 0, , .		24

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83	Characterization and biodegradability of polyester bioplastic-based green renewable composites from agricultural residues. <i>Polymer Degradation and Stability</i> , 2011, 97, 64-64.	2.7	11
84	What is vital (and not vital) to advance economically-competitive biofuels production. <i>Process Biochemistry</i> , 2011, 46, 2091-2110.	1.8	99
85	Preparation and characterization of rigid polyurethane foam prepared from sugar-cane bagasse polyol. <i>Materials Chemistry and Physics</i> , 2011, 129, 301-307.	2.0	139
86	Polyol production by chemical modification of date seeds. <i>Industrial Crops and Products</i> , 2011, 34, 1035-1040.	2.5	76
87	TEMPO-mediated oxidation of lignocellulosic fibers from date palm leaves. <i>Carbohydrate Polymers</i> , 2011, 86, 1445-1450.	5.1	44
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91	Synthesis and properties of bio-based polyurethanes bearing hydroxy groups derived from alditols. <i>Journal of Polymer Science Part A</i> , 2011, 49, 976-985.	2.5	26
92	Polybenzoxazines from renewable diphenolic acid. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1219-1227.	2.5	111
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101	Water-Free Synthesis of Polyurethane Foams Using Highly Reactive Diisocyanates Derived from 5-Hydroxymethylfurfural. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1373-1378.	2.0	23
102	Cellulose-Based Sustainable Polymers: State of the Art and Future Trends. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1299-1311.	2.0	153
103	Polyalkylenehydroxybenzoates (PAHBs): Biorenewable Aromatic/Aliphatic Polyesters from Lignin. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1386-1392.	2.0	119
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111	Phosphorus-containing soybean oil copolymers: Cross-metathesis of fatty acid derivatives as an alternative to phosphorus-containing reactive flame retardants. <i>Journal of Applied Polymer Science</i> , 2011, 122, 1649-1658.	1.3	31
112	Effect of diisocyanate structure on the properties and microstructure of polyurethanes based on polyols derived from renewable resources. <i>Journal of Applied Polymer Science</i> , 2011, 122, 3677-3685.	1.3	75
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118	Efficient synthesis of hydroxyl functioned polyesters from natural polyols and sebacic acid. <i>Chinese Chemical Letters</i> , 2011, 22, 635-638.	4.8	15

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151	Adhesion and micromechanical deformation processes in PLA/CaSO <sub>4</sub> composites. <i>Carbohydrate Polymers</i> , 2012, 89, 759-767.	5.1	28
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159	Synthesis and crystallinity of poly(butylene 2,5-furandicarboxylate). <i>Polymer</i> , 2012, 53, 4145-4151.	1.8	142
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