

Joseph J Bozell

List of Publications by Year in descending order

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46
papers

6,177
citations

361413

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243625

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docs citations

48
times ranked

7546
citing authors

#	ARTICLE	IF	CITATIONS
1	Compositional analysis of organosolv poplar lignin by using high-performance liquid chromatography/high-resolution multi-stage tandem mass spectrometry. <i>Green Chemistry</i> , 2021, 23, 983-1000.	9.0	14
2	Evaluation of process severity on the chemical composition of organosolv switchgrass lignins by using mass spectrometry. <i>Green Chemistry</i> , 2021, 23, 4024-4033.	9.0	3
3	Alkylation of monomeric, dimeric, and polymeric lignin models through carbon-hydrogen activation using Ru-catalyzed Murai reaction. <i>Tetrahedron</i> , 2021, 100, 132475.	1.9	1
4	Deactivation of Co-Schiff base catalysts in the oxidation of <i>p</i> -substituted lignin models for the production of benzoquinones. <i>Catalysis Science and Technology</i> , 2020, 10, 403-413.	4.1	7
5	Co(salen)-Catalyzed Oxidation of Lignin Models to Form Benzoquinones and Benzaldehydes: A Computational and Experimental Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7225-7234.	6.7	18
6	Sciadopitys verticillata Resin: Volatile Components and Impact on Plant Pathogenic and Foodborne Bacteria. <i>Molecules</i> , 2019, 24, 3767.	3.8	2
7	Steric effects of bulky tethered arylpiperazines on the reactivity of Co-Schiff base oxidation catalysts—a synthetic and computational study. <i>Tetrahedron</i> , 2019, 75, 3118-3127.	1.9	3
8	Effect of solvent fractionation pretreatment on energy consumption of cellulose nanofabrication from switchgrass. <i>Journal of Materials Science</i> , 2019, 54, 8010-8022.	3.7	17
9	Optimization of Component Yields and Thermal Properties by Organosolv Fractionation of Loblolly Pine (<i>Pinus taeda</i>) Using Response Surface Design. <i>Bioenergy Research</i> , 2018, 11, 652-664.	3.9	1
10	Improving Processing and Performance of Pure Lignin Carbon Fibers through Hardwood and Herbaceous Lignin Blends. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1410.	4.1	67
11	A Fundamental Tandem Mass Spectrometry Study of the Collision-Activated Dissociation of Small Deprotonated Molecules Related to Lignin. <i>ChemSusChem</i> , 2016, 9, 3513-3526.	6.8	15
12	Role of Physicochemical Structure of Organosolv Hardwood and Herbaceous Lignins on Carbon Fiber Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5785-5798.	6.7	84
13	Progress toward Lignin Valorization via Selective Catalytic Technologies and the Tailoring of Biosynthetic Pathways. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5123-5135.	6.7	79
14	Effects of organosolv fractionation time on thermal and chemical properties of lignins. <i>RSC Advances</i> , 2016, 6, 79228-79235.	3.6	31
15	Enantioselective Syntheses of Lignin Models: An Efficient Synthesis of β -O ₄ Dimers and Trimers by Using the Evans Chiral Auxiliary. <i>Chemistry - A European Journal</i> , 2016, 22, 12506-12517.	3.3	9
16	A study of poplar organosolv lignin after melt rheology treatment as carbon fiber precursors. <i>Green Chemistry</i> , 2016, 18, 5015-5024.	9.0	85
17	Synthesis of Enantiomerically Pure Lignin Dimer Models for Catalytic Selectivity Studies. <i>Journal of Organic Chemistry</i> , 2015, 80, 1771-1780.	3.2	22
18	Lignin yield maximization of mixed biorefinery feedstocks by organosolv fractionation using Taguchi Robust Product Design. <i>Biomass and Bioenergy</i> , 2015, 73, 209-216.	5.7	11

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19	Catalytic Oxidation of Lignin for the Production of Low Molecular Weight Aromatics. , 2014, , 277-289.		0
20	Integrating Separation and Conversionâ€”Conversion of Biorefinery Process Streams to Biobased Chemicals and Fuels. Bioenergy Research, 2014, 7, 856-866.	3.9	27
21	Characterization of organosolv switchgrass lignin by using high performance liquid chromatography/high resolution tandem mass spectrometry using hydroxide-doped negative-ion mode electrospray ionization. Green Chemistry, 2014, 16, 2713-2727.	9.0	78
22	Steric effects in the design of Co-Schiff base complexes for the catalytic oxidation of lignin models to para-benzoquinones. Green Chemistry, 2014, 16, 3635-3642.	9.0	41
23	Approaches to the Selective Catalytic Conversion of Lignin: A Grand Challenge for Biorefinery Development. Topics in Current Chemistry, 2014, 353, 229-255.	4.0	32
24	The effect of axial ligand on the oxidation of syringyl alcohol by Co(salen) adducts. Physical Chemistry Chemical Physics, 2013, 15, 7328.	2.8	17
25	Efficient Cobalt-Catalyzed Oxidative Conversion of Lignin Models to Benzoquinones. Organic Letters, 2013, 15, 2730-2733.	4.6	123
26	Short-time ultrasonication treatment in enzymatic hydrolysis of biomass. Holzforschung, 2013, 67, 891-897.	1.9	6
27	Characterization of Organosolv Lignins using Thermal and FT-IR Spectroscopic Analysis. BioResources, 2013, 8, .	1.0	94
28	High-Performance Liquid Chromatography/High-Resolution Multiple Stage Tandem Mass Spectrometry Using Negative-Ion-Mode Hydroxide-Doped Electrospray Ionization for the Characterization of Lignin Degradation Products. Analytical Chemistry, 2012, 84, 6000-6007.	6.5	94
29	Catalytic oxidation of para-substituted phenols with cobaltâ€”Schiff base complexes/O ₂ â€”selective conversion of syringyl and guaiacyl lignin models to benzoquinones. Tetrahedron Letters, 2012, 53, 2380-2383.	1.4	50
30	Biomass Fractionation for the Biorefinery: Heteronuclear Multiple Quantum Coherenceâ€”Nuclear Magnetic Resonance Investigation of Lignin Isolated from Solvent Fractionation of Switchgrass. Journal of Agricultural and Food Chemistry, 2011, 59, 9232-9242.	5.2	77
31	Solvent fractionation of renewable woody feedstocks: Organosolv generation of biorefinery process streams for the production of biobased chemicals. Biomass and Bioenergy, 2011, 35, 4197-4208.	5.7	149
32	Self-Assembling Bolaforms from Biorefinery Polysaccharides. ACS Symposium Series, 2010, , 243-259.	0.5	1
33	Technology development for the production of biobased products from biorefinery carbohydratesâ€”the US Department of Energyâ€™s â€œTop 10â€”revisited. Green Chemistry, 2010, 12, 539.	9.0	3,701
34	Connecting Biomass and Petroleum Processing with a Chemical Bridge. Science, 2010, 329, 522-523.	12.6	288
35	Feedstocks for the Future â€” Biorefinery Production of Chemicals from Renewable Carbon. Clean - Soil, Air, Water, 2008, 36, 641-647.	1.1	193
36	Molecular structures of glycal-based bolaamphiphiles: analysis of crystal packing and hydrogen-bond networks. Carbohydrate Research, 2008, 343, 374-382.	2.3	4

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37	Synthesis and Self-Assembly of Glycal-Based Bolaforms. <i>Journal of Organic Chemistry</i> , 2008, 73, 8763-8771.	3.2	16
38	Feedstocks for the Future: Using Technology Development as a Guide to Product Identification. <i>ACS Symposium Series</i> , 2006, , 1-12.	0.5	15
39	Chemicals and Materials from Renewable Resources. <i>ACS Symposium Series</i> , 2001, , 1-9.	0.5	10
40	Stereoselective and Regioselective Reaction of Cyclic Ortho Esters with Phenols. <i>Journal of Organic Chemistry</i> , 2001, 66, 3084-3089.	3.2	10
41	Heteropolyacid Catalyzed Oxidation of Lignin and Lignin Models to Benzoquinones. <i>Journal of Wood Chemistry and Technology</i> , 2000, 20, 19-41.	1.7	13
42	Catalytic oxidation of para-substituted phenols with nitrogen dioxide and oxygen. <i>Tetrahedron Letters</i> , 1998, 39, 2261-2264.	1.4	33
43	Pulping Catalysts from Lignin. VIII. Nitrogen Dioxide Oxidation of Lignins to Benzoquinones. <i>Journal of Wood Chemistry and Technology</i> , 1997, 17, 235-258.	1.7	3
44	Pulping Catalysts From Lignin (5). Nitrogen Dioxide Oxidation Of Lignin Models To Benzoquinones. <i>Journal of Wood Chemistry and Technology</i> , 1996, 16, 169-189.	1.7	11
45	Cobalt-Schiff Base Complex Catalyzed Oxidation of Para-Substituted Phenolics. Preparation of Benzoquinones. <i>Journal of Organic Chemistry</i> , 1995, 60, 2398-2404.	3.2	143
46	Green Chemistry in Practice. , 0, , 338-365.		2