

Stephen C Chmely

List of Publications by Year in descending order

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37
papers

1,757
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430754

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Nanocrystalline Graphite from Lignin Sources. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1786-1794.	3.2	6
2	A Sequential Autohydrolysis-Ionic Liquid Fractionation Process for High Quality Lignin Production. <i>Energy & Fuels</i> , 2021, 35, 2293-2302.	2.5	8
3	Improving UV Curing in Organosolv Lignin-Containing Photopolymers for Stereolithography by Reduction and Acylation. <i>Polymers</i> , 2021, 13, 3473.	2.0	15
4	Recycling hot-water extractions of lignocellulosic biomass in bio-refinery for synthesis of carbon nanoparticles with amplified luminescence and its application in temperature sensing. <i>Industrial Crops and Products</i> , 2020, 145, 112066.	2.5	14
5	Mechanochemically directed metathesis in group 2 chemistry: calcium amide formation without solvent. <i>Chemical Communications</i> , 2019, 55, 2202-2205.	2.2	18
6	Vapor-Phase Stabilization of Biomass Pyrolysis Vapors Using Mixed-Metal Oxide Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7386-7394.	3.2	15
7	Dual-emitting film with cellulose nanocrystal-assisted carbon dots grafted SrAl ₂ O ₄ , Eu ²⁺ , Dy ³⁺ phosphors for temperature sensing. <i>Carbohydrate Polymers</i> , 2019, 206, 767-777.	5.1	53
8	Hot water extraction as a pretreatment for reducing syngas inorganics impurities – A parametric investigation on switchgrass and loblolly pine bark. <i>Fuel</i> , 2018, 220, 177-184.	3.4	9
9	Sustainable Hydrogels Based on Lignin-Methacrylate Copolymers with Enhanced Water Retention and Tunable Material Properties. <i>Biomacromolecules</i> , 2018, 19, 2665-2672.	2.6	34
10	Relationship between lignocellulosic biomass dissolution and physicochemical properties of ionic liquids composed of 3-methylimidazolium cations and carboxylate anions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2508-2516.	1.3	51
11	Catalytic transfer hydrogenolysis of organosolv lignin using B-containing FeNi alloyed catalysts. <i>Catalysis Today</i> , 2018, 302, 190-195.	2.2	49
12	Structural changes in lignocellulosic biomass during activation with ionic liquids comprising 3-methylimidazolium cations and carboxylate anions. <i>Biotechnology for Biofuels</i> , 2018, 11, 265.	6.2	19
13	Lignin-Containing Photoactive Resins for 3D Printing by Stereolithography. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36456-36463.	4.0	127
14	Lignin-coated cellulose nanocrystal filled methacrylate composites prepared via 3D stereolithography printing: Mechanical reinforcement and thermal stabilization. <i>Carbohydrate Polymers</i> , 2017, 169, 272-281.	5.1	89
15	Biomass Treatment Strategies for Thermochemical Conversion. <i>Energy & Fuels</i> , 2017, 31, 3525-3536.	2.5	83
16	Electrocatalytic Activity and Stability Enhancement through Preferential Deposition of Phosphide on Carbide. <i>ChemCatChem</i> , 2017, 9, 1054-1061.	1.8	11
17	Environmentally Friendly Process for Recovery of Wood Preservative from Used Copper Naphthenate-Treated Railroad Ties. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10806-10814.	3.2	1
18	Lattice Matched Carbide-Phosphide Composites with Superior Electrocatalytic Activity and Stability. <i>Chemistry of Materials</i> , 2017, 29, 9369-9377.	3.2	22

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19	Beneficial effects of <i>Trametes versicolor</i> pretreatment on saccharification and lignin enrichment of organosolv-pretreated pinewood. <i>RSC Advances</i> , 2017, 7, 45652-45661.	1.7	10
20	Scalable and Tunable Carbide-Phosphide Composite Catalyst System for the Thermochemical Conversion of Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7751-7758.	3.2	5
21	Using a chelating agent to generate low ash bioenergy feedstock. <i>Biomass and Bioenergy</i> , 2017, 96, 12-18.	2.9	17
22	Iron piano-stool complexes containing NHC ligands outfitted with pendent arms: synthesis, characterization, and screening for catalytic transfer hydrogenation. <i>RSC Advances</i> , 2016, 6, 88050-88056.	1.7	12
23	Screening of Mixed-Metal Oxide Species for Catalytic Ex Situ Vapor-Phase Deoxygenation of Cellulose by py-GC/MS Coupled with Multivariate Analysis. <i>Energy & Fuels</i> , 2016, 30, 3167-3174.	2.5	16
24	Lignin depolymerisation by nickel supported layered-double hydroxide catalysts. <i>Green Chemistry</i> , 2014, 16, 824-835.	4.6	161
25	A Mechanistic Investigation of Acid-Catalyzed Cleavage of Aryl-Ether Linkages: Implications for Lignin Depolymerization in Acidic Environments. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 472-485.	3.2	317
26	Structural Distortions in $M[E(SiMe_3)_2]_3$ Complexes (M = Group Tj ETQq0 0 0 rgBT /Overlock 10	1.9	15
27	Mechanistic Study of a Ru-Xantphos Catalyst for Tandem Alcohol Dehydrogenation and Reductive Aryl-Ether Cleavage. <i>ACS Catalysis</i> , 2013, 3, 963-974.	5.5	42
28	Computational Study of Bond Dissociation Enthalpies for a Large Range of Native and Modified Lignins. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2846-2852.	2.1	318
29	Preparation, Structure, and Ether Cleavage of a Mixed Hapticity Allyl Compound of Calcium. <i>Organometallics</i> , 2011, 30, 5291-5296.	1.1	25
30	Reaction of platinum(II) diamine and triamine complexes with selenomethionine. <i>Inorganica Chimica Acta</i> , 2011, 368, 187-193.	1.2	12
31	Complexes with Sterically Bulky Allyl Ligands: Insights into Structure and Bonding. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1321-1337.	1.0	33
32	Bis(1,3-trimethylsilylallyl)beryllium. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5870-5874.	7.2	34
33	Influence of Ring Methylation in Group 15 Tetramethylcyclopentadienyl Complexes, $M(C_5Me_4H)_3$ (M = As, Sb). <i>Organometallics</i> , 2010, 29, 5551-5557.	1.1	6
34	Classical versus Bridged Allyl Ligands in Magnesium Complexes: The Role of Solvent. <i>Journal of the American Chemical Society</i> , 2009, 131, 6344-6345.	6.6	39
35	Stability of cyclopentadienyl aryloxide complexes of calcium and barium. <i>Journal of Alloys and Compounds</i> , 2009, 488, 528-532.	2.8	7
36	Solution Interaction of Potassium and Calcium Bis(trimethylsilyl)amides; Preparation of $Ca[N(SiMe_3)_2]_2$ from Dibenzylcalcium. <i>Inorganic Chemistry</i> , 2009, 48, 1380-1384.	1.9	44

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37	s-Block Metal Complexes of the Bis(tetramethylcyclopentadienyl) Phosphonium Diylide [Me(<i>t</i> -Bu)P(C ₅ Me ₄) ₂] ⁺ . <i>Organometallics</i> , 2008, 27, 1612-1616.	1.1	20