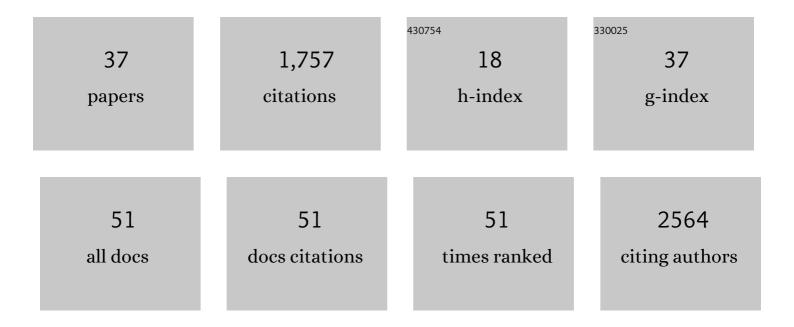
Stephen C Chmely

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Computational Study of Bond Dissociation Enthalpies for a Large Range of Native and Modified Lignins. Journal of Physical Chemistry Letters, 2011, 2, 2846-2852. | 2.1 | 318 |
| 2 | A Mechanistic Investigation of Acid-Catalyzed Cleavage of Aryl-Ether Linkages: Implications for Lignin Depolymerization in Acidic Environments. ACS Sustainable Chemistry and Engineering, 2014, 2, 472-485. | 3.2 | 317 |
| 3 | Lignin depolymerisation by nickel supported layered-double hydroxide catalysts. Green Chemistry, 2014, 16, 824-835. | 4.6 | 161 |
| 4 | Lignin-Containing Photoactive Resins for 3D Printing by Stereolithography. ACS Applied Materials & Interfaces, 2018, 10, 36456-36463. | 4.0 | 127 |
| 5 | Lignin-coated cellulose nanocrystal filled methacrylate composites prepared via 3D stereolithography printing: Mechanical reinforcement and thermal stabilization. Carbohydrate Polymers, 2017, 169, 272-281. | 5.1 | 89 |
| 6 | Biomass Treatment Strategies for Thermochemical Conversion. Energy & amp; Fuels, 2017, 31, 3525-3536. | 2.5 | 83 |
| 7 | Dual-emitting film with cellulose nanocrystal-assisted carbon dots grafted SrAl2O4, Eu2+, Dy3+ phosphors for temperature sensing. Carbohydrate Polymers, 2019, 206, 767-777. | 5.1 | 53 |
| 8 | Relationship between lignocellulosic biomass dissolution and physicochemical properties of ionic liquids composed of 3-methylimidazolium cations and carboxylate anions. Physical Chemistry Chemical Physics, 2018, 20, 2508-2516. | 1.3 | 51 |
| 9 | Catalytic transfer hydrogenolysis of organosolv lignin using B-containing FeNi alloyed catalysts. Catalysis Today, 2018, 302, 190-195. | 2.2 | 49 |
| 10 | Solution Interaction of Potassium and Calcium Bis(trimethylsilyl)amides; Preparation of Ca[N(SiMe ₃) ₂] ₂ from Dibenzylcalcium. Inorganic Chemistry, 2009, 48, 1380-1384. | 1.9 | 44 |
| 11 | Mechanistic Study of a Ru-Xantphos Catalyst for Tandem Alcohol Dehydrogenation and Reductive Aryl-Ether Cleavage. ACS Catalysis, 2013, 3, 963-974. | 5.5 | 42 |
| 12 | Classical versus Bridged Allyl Ligands in Magnesium Complexes: The Role of Solvent. Journal of the American Chemical Society, 2009, 131, 6344-6345. | 6.6 | 39 |
| 13 | Bis(1,3â€ŧrimethylsilylallyl)beryllium. Angewandte Chemie - International Edition, 2010, 49, 5870-5874. | 7.2 | 34 |
| 14 | Sustainable Hydrogels Based on Lignin-Methacrylate Copolymers with Enhanced Water Retention and Tunable Material Properties. Biomacromolecules, 2018, 19, 2665-2672. | 2.6 | 34 |
| 15 | Complexes with Sterically Bulky Allyl Ligands: Insights into Structure and Bonding. European Journal of Inorganic Chemistry, 2010, 2010, 1321-1337. | 1.0 | 33 |
| 16 | Preparation, Structure, and Ether Cleavage of a Mixed Hapticity Allyl Compound of Calcium. Organometallics, 2011, 30, 5291-5296. | 1.1 | 25 |
| 17 | Lattice Matched Carbide–Phosphide Composites with Superior Electrocatalytic Activity and Stability. Chemistry of Materials, 2017, 29, 9369-9377. | 3.2 | 22 |
| 18 | s-Block Metal Complexes of the Bis(tetramethylcyclopentadienyl) Phosphonium Diylide [Me(<i>t</i> Bu)P(C ₅ Me ₄) ₂] ^{â^'} . Organometallics, 2008, 27, 1612-1616. | 1.1 | 20 |

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| # | Article | IF | CITATIONS |
|----|--|----------|------------|
| 19 | Structural changes in lignocellulosic biomass during activation with ionic liquids comprising 3-methylimidazolium cations and carboxylate anions. Biotechnology for Biofuels, 2018, 11, 265. | 6.2 | 19 |
| 20 | Mechanochemically directed metathesis in group 2 chemistry: calcium amide formation without solvent. Chemical Communications, 2019, 55, 2202-2205. | 2.2 | 18 |
| 21 | Using a chelating agent to generate low ash bioenergy feedstock. Biomass and Bioenergy, 2017, 96, 12-18. | 2.9 | 17 |
| 22 | Screening of Mixed-Metal Oxide Species for Catalytic Ex Situ Vapor-Phase Deoxygenation of Cellulose by py-GC/MS Coupled with Multivariate Analysis. Energy & Fuels, 2016, 30, 3167-3174. | 2.5 | 16 |
| 23 | Structural Distortions in M[E(SiMe ₃) ₂] ₃ Complexes (M = Group) Tj ETQq1 | 1.9.7843 | 14 rgBT /0 |
| 24 | Vapor-Phase Stabilization of Biomass Pyrolysis Vapors Using Mixed-Metal Oxide Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 7386-7394. | 3.2 | 15 |
| 25 | Improving UV Curing in Organosolv Lignin-Containing Photopolymers for Stereolithography by Reduction and Acylation. Polymers, 2021, 13, 3473. | 2.0 | 15 |
| 26 | Recycling hot-water extractions of lignocellulosic biomass in bio-refinery for synthesis of carbon nanoparticles with amplified luminescence and its application in temperature sensing. Industrial Crops and Products, 2020, 145, 112066. | 2.5 | 14 |
| 27 | Reaction of platinum(II) diamine and triamine complexes with selenomethionine. Inorganica Chimica Acta, 2011, 368, 187-193. | 1.2 | 12 |
| 28 | Iron piano-stool complexes containing NHC ligands outfitted with pendent arms: synthesis, characterization, and screening for catalytic transfer hydrogenation. RSC Advances, 2016, 6, 88050-88056. | 1.7 | 12 |
| 29 | Electrocatalytic Activity and Stability Enhancement through Preferential Deposition of Phosphide on Carbide. ChemCatChem, 2017, 9, 1054-1061. | 1.8 | 11 |
| 30 | Beneficial effects of Trametes versicolor pretreatment on saccharification and lignin enrichment of organosolv-pretreated pinewood. RSC Advances, 2017, 7, 45652-45661. | 1.7 | 10 |
| 31 | Hot water extraction as a pretreatment for reducing syngas inorganics impurities – A parametric investigation on switchgrass and loblolly pine bark. Fuel, 2018, 220, 177-184. | 3.4 | 9 |
| 32 | A Sequential Autohydrolysis-Ionic Liquid Fractionation Process for High Quality Lignin Production. Energy & Fuels, 2021, 35, 2293-2302. | 2.5 | 8 |
| 33 | Stability of cyclopentadienyl aryloxide complexes of calcium and barium. Journal of Alloys and Compounds, 2009, 488, 528-532. | 2.8 | 7 |
| 34 | Influence of Ring Methylation in Group 15 Tetramethylcyclopentadienyl Complexes, M(C ₅ Me ₄ H) _{<i>n</i>} I _{3â^'<i>n</i>} (M = As, Sb). Organometallics, 2010, 29, 5551-5557. | 1.1 | 6 |
| 35 | Development of Nanocrystalline Graphite from Lignin Sources. ACS Sustainable Chemistry and Engineering, 2022, 10, 1786-1794. | 3.2 | 6 |
| 36 | Scalable and Tunable Carbide–Phosphide Composite Catalyst System for the Thermochemical Conversion of Biomass. ACS Sustainable Chemistry and Engineering, 2017, 5, 7751-7758. | 3.2 | 5 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Environmentally Friendly Process for Recovery of Wood Preservative from Used Copper Naphthenate-Treated Railroad Ties. ACS Sustainable Chemistry and Engineering, 2017, 5, 10806-10814. | 3.2 | 1 |