Robert L Johnson

List of Publications by Year
in descending order

20 papers	978 citations	623734 14 h-index	794594 19 g-index
21 all docs	21 docs citations	21 times ranked	1655 citing authors

#	Article	IF	Citations
1	Hydrogenation/Hydrodeoxygenation Selectivity Modulation by Cometal Addition to Palladium on Carbon-Coated Supports. ACS Sustainable Chemistry and Engineering, 2022, 10, 7759-7771.	6.7	4
2	Condensed Phase Deactivation of Solid BrÃ¸nsted Acids in the Dehydration of Fructose to Hydroxymethylfurfural. ACS Catalysis, 2019, 9, 11568-11578.	11.2	19
3	Effects of chloride ions in acid-catalyzed biomass dehydration reactions in polar aprotic solvents. Nature Communications, 2019, 10, 1132.	12.8	117
4	Modulating Reactivity and Selectivity of 2-Pyrone-Derived Bicyclic Lactones through Choice of Catalyst and Solvent. ACS Catalysis, 2018, 8, 2450-2463.	11.2	14
5	Stability of Pd nanoparticles on carbon-coated supports under hydrothermal conditions. Catalysis Science and Technology, 2018, 8, 1151-1160.	4.1	28
6	Characterizing Substrateâ€“Surface Interactions on Alumina-Supported Metal Catalysts by Dynamic Nuclear Polarization-Enhanced Double-Resonance NMR Spectroscopy. Journal of the American Chemical Society, 2017, 139, 2702-2709.	13.7	59
7	A new selective route towards benzoic acid and derivatives from biomass-derived coumalic acid. Green Chemistry, 2017, 19, 4879-4888.	9.0	26
8	The formation of p-toluic acid from coumalic acid: a reaction network analysis. Green Chemistry, 2017, 19, 3263-3271.	9.0	21
9	Identifying low-coverage surface species on supported noble metal nanoparticle catalysts by DNP-NMR. Chemical Communications, 2016, 52, 1859-1862.	4.1	36
10	Methionine bound to Pd/Î³-Al2O3 catalysts studied by solid-state 13C NMR. Solid State Nuclear Magnetic Resonance, 2015, 72, 64-72.	2.3	7
11	Insights into the Hydrothermal Stability of ZSM-5 under Relevant Biomass Conversion Reaction Conditions. ACS Catalysis, 2015, 5, 4418-4422.	11.2	72
12	Carbon Overcoating of Supported Metal Catalysts for Improved Hydrothermal Stability. ACS Catalysis, 2015, 5, 4546-4555.	11.2	88
13	Solid state NMR study of chemical structure and hydrothermal deactivation of moderate-temperature carbon materials with acidic SO3H sites. Carbon, 2014, 74, 333-345.	10.3	67
14	Quantitative solid-state 13C NMR with signal enhancement by multiple cross polarization. Journal of Magnetic Resonance, 2014, 239, 44-49.	2.1	253
15	Engineering Catalyst Microenvironments for Metalâ€Catalyzed Hydrogenation of Biologically Derived Platform Chemicals. Angewandte Chemie, 2014, 126, 12932-12936.	2.0	11
16	Simple One-Step Synthesis of Aromatic-Rich Materials with High Concentrations of Hydrothermally Stable Catalytic Sites, Validated by NMR. Chemistry of Materials, 2014, 26, 5523-5532.	6.7	11
17	Frontispiece: Engineering Catalyst Microenvironments for Metal-Catalyzed Hydrogenation of Biologically Derived Platform Chemicals. Angewandte Chemie - International Edition, 2014, 53, .	13.8	0
18	Frontispiz: Engineering Catalyst Microenvironments for Metal-Catalyzed Hydrogenation of Biologically Derived Platform Chemicals. Angewandte Chemie, 2014, 126, n/a-n/a.	2.0	0

#	Article	IF	Citations
19	Spectrally edited 2D 13C13C NMR spectra without diagonal ridge for characterizing 13C-enriched low-temperature carbon materials. Journal of Magnetic Resonance, 2013, 234, 112-124.	2.1	40
20	Improved Hydrothermal Stability of Mesoporous Oxides for Reactions in the Aqueous Phase. Angewandte Chemie - International Edition, 2012, 51, 13163-13167.	13.8	90