

# Robert L Johnson

## List of Publications by Year in descending order

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20  
papers

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citations

623734

14  
h-index

794594

19  
g-index

21  
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21  
docs citations

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times ranked

1655  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative solid-state $^{13}\text{C}$ NMR with signal enhancement by multiple cross polarization. <i>Journal of Magnetic Resonance</i> , 2014, 239, 44-49.	2.1	253
2	Effects of chloride ions in acid-catalyzed biomass dehydration reactions in polar aprotic solvents. <i>Nature Communications</i> , 2019, 10, 1132.	12.8	117
3	Improved Hydrothermal Stability of Mesoporous Oxides for Reactions in the Aqueous Phase. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 13163-13167.	13.8	90
4	Carbon Overcoating of Supported Metal Catalysts for Improved Hydrothermal Stability. <i>ACS Catalysis</i> , 2015, 5, 4546-4555.	11.2	88
5	Insights into the Hydrothermal Stability of ZSM-5 under Relevant Biomass Conversion Reaction Conditions. <i>ACS Catalysis</i> , 2015, 5, 4418-4422.	11.2	72
6	Solid state NMR study of chemical structure and hydrothermal deactivation of moderate-temperature carbon materials with acidic $\text{SO}_3\text{H}$ sites. <i>Carbon</i> , 2014, 74, 333-345.	10.3	67
7	Characterizing Substrate-Surface Interactions on Alumina-Supported Metal Catalysts by Dynamic Nuclear Polarization-Enhanced Double-Resonance NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 2702-2709.	13.7	59
8	Spectrally edited 2D $^{13}\text{C}$ $^{13}\text{C}$ NMR spectra without diagonal ridge for characterizing $^{13}\text{C}$ -enriched low-temperature carbon materials. <i>Journal of Magnetic Resonance</i> , 2013, 234, 112-124.	2.1	40
9	Identifying low-coverage surface species on supported noble metal nanoparticle catalysts by DNP-NMR. <i>Chemical Communications</i> , 2016, 52, 1859-1862.	4.1	36
10	Stability of Pd nanoparticles on carbon-coated supports under hydrothermal conditions. <i>Catalysis Science and Technology</i> , 2018, 8, 1151-1160.	4.1	28
11	A new selective route towards benzoic acid and derivatives from biomass-derived coumalic acid. <i>Green Chemistry</i> , 2017, 19, 4879-4888.	9.0	26
12	The formation of p-toluic acid from coumalic acid: a reaction network analysis. <i>Green Chemistry</i> , 2017, 19, 3263-3271.	9.0	21
13	Condensed Phase Deactivation of Solid Brønsted Acids in the Dehydration of Fructose to Hydroxymethylfurfural. <i>ACS Catalysis</i> , 2019, 9, 11568-11578.	11.2	19
14	Modulating Reactivity and Selectivity of 2-Pyrone-Derived Bicyclic Lactones through Choice of Catalyst and Solvent. <i>ACS Catalysis</i> , 2018, 8, 2450-2463.	11.2	14
15	Engineering Catalyst Microenvironments for Metal-Catalyzed Hydrogenation of Biologically Derived Platform Chemicals. <i>Angewandte Chemie</i> , 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. <i>Chemistry of Materials</i> , 2014, 26, 5523-5532.	6.7	11
17	Methionine bound to $\text{Pd}/\gamma\text{-Al}_2\text{O}_3$ catalysts studied by solid-state $^{13}\text{C}$ NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 72, 64-72.	2.3	7
18	Hydrogenation/Hydrodeoxygenation Selectivity Modulation by Cometal Addition to Palladium on Carbon-Coated Supports. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7759-7771.	6.7	4

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19	Frontispiece: Engineering Catalyst Microenvironments for Metal-Catalyzed Hydrogenation of Biologically Derived Platform Chemicals. <i>Angewandte Chemie - International Edition</i> , 2014, 53, .	13.8	0
20	Frontispiz: Engineering Catalyst Microenvironments for Metal-Catalyzed Hydrogenation of Biologically Derived Platform Chemicals. <i>Angewandte Chemie</i> , 2014, 126, n/a-n/a.	2.0	0