

Rebecca K Carlson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

24
papers

2,333
citations

15
h-index

30
g-index

30
ext. papers

2,825
ext. citations

5.9
avg, IF

4.42
L-index

#	Paper	IF	Citations
24	Molcas 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. <i>Journal of Computational Chemistry</i> , 2016 , 37, 506-41	3.5	1047
23	OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5925-5964	5.64	310
22	Multiconfiguration Pair-Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3669-80	6.4	246
21	Multiconfiguration Pair-Density Functional Theory: A New Way To Treat Strongly Correlated Systems. <i>Accounts of Chemical Research</i> , 2017 , 50, 66-73	24.3	175
20	Role of the metal in the bonding and properties of bimetallic complexes involving manganese, iron, and cobalt. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1842-55	16.4	78
19	Multiconfiguration Pair-Density Functional Theory: A Fully Translated Gradient Approximation and Its Performance for Transition Metal Dimers and the Spectroscopy of Re ₂ Cl ₈ (²⁻). <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 4077-85	6.4	67
18	Computationally Guided Discovery of a Catalytic Cobalt-Decorated Metal-Organic Framework for Ethylene Dimerization. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23576-23583	3.8	67
17	Bimetallic cobalt-dinitrogen complexes: impact of the supporting metal on N ₂ activation. <i>Inorganic Chemistry</i> , 2015 , 54, 9263-70	5.1	63
16	Multiconfiguration pair-density functional theory: barrier heights and main group and transition metal energetics. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 82-90	6.4	44
15	Pushing the Limits of Delta Bonding in Metal-Chromium Complexes with Redox Changes and Metal Swapping. <i>Inorganic Chemistry</i> , 2015 , 54, 7579-92	5.1	38
14	Separated-pair approximation and separated-pair pair-density functional theory. <i>Chemical Science</i> , 2016 , 7, 2399-2413	9.4	37
13	Heterobimetallic Complexes That Bond Vanadium to Iron, Cobalt, and Nickel. <i>Inorganic Chemistry</i> , 2015 , 54, 11669-79	5.1	37
12	Predicting paramagnetic ¹ H NMR chemical shifts and state-energy separations in spin-crossover host-guest systems. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 10620-8	3.6	31
11	Structure and bonding of group 4-nickel heterobimetallics supported by 2-(diphenylphosphino)pyrrolide ligands. <i>Dalton Transactions</i> , 2016 , 45, 9892-901	4.3	21
10	Can Multiconfigurational Self-Consistent Field Theory and Density Functional Theory Correctly Predict the Ground State of Metal-Metal-Bonded Complexes?. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 4093-101	6.4	16
9	Influence of Copper Oxidation State on the Bonding and Electronic Structure of Cobalt-Copper Complexes. <i>Inorganic Chemistry</i> , 2015 , 54, 11330-8	5.1	12
8	On-Top Pair Density as a Measure of Left-Right Correlation in Bond Breaking. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 5540-5547	2.8	12

7	Synthesis and characterization of triply-bonded titanium-iron complexes supported by 2-(diphenylphosphino)pyrrolide ligands. <i>Inorganica Chimica Acta</i> , 2017 , 460, 43-48	2.7	9
6	Synthesis and redox reactivity of a phosphine-ligated dichromium paddlewheel. <i>Inorganica Chimica Acta</i> , 2015 , 424, 336-344	2.7	4
5	OpenMolcas: From Source Code to Insight		4
4	On-Top Ratio for Atoms and Molecules. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 8294-8304	2.8	2
3	Free-radical copolymerisation of acrylamides, acrylates, and B-lefins. <i>Molecular Physics</i> , 2015 , 113, 1809-1822		2
2	Tight-Binding Modeling of Uranium in an Aqueous Environment. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 3073-3083	6.4	2
1	Mechanistic Study of the Production of NO Gases from the Reaction of Copper with Nitric Acid. <i>Inorganic Chemistry</i> , 2020 , 59, 16833-16842	5.1	1