

Ashutosh Kumar

List of Publications by Year in descending order

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11
papers

1,713
citations

840776

11
h-index

1281871

11
g-index

11
all docs

11
docs citations

11
times ranked

2168
citing authors

#	ARTICLE	IF	CITATIONS
1	Many-Body Quantum Chemistry on Massively Parallel Computers. <i>Chemical Reviews</i> , 2021, 121, 1203-1231.	47.7	21
2	Massively Parallel Quantum Chemistry: A high-performance research platform for electronic structure. <i>Journal of Chemical Physics</i> , 2020, 153, 044120.	3.0	25
3	Quantum simulation of electronic structure with a transcorrelated Hamiltonian: improved accuracy with a smaller footprint on the quantum computer. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24270-24281.	2.8	43
4	Explicitly correlated coupled cluster method for accurate treatment of open-shell molecules with hundreds of atoms. <i>Journal of Chemical Physics</i> , 2020, 153, 094105.	3.0	22
5	P<sc>si4</sc> 1.4: Open-source software for high-throughput quantum chemistry. <i>Journal of Chemical Physics</i> , 2020, 152, 184108.	3.0	440
6	Reduced-scaling coupled cluster response theory: Challenges and opportunities. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019, 9, e1406.	14.6	26
7	P<sc>si</sc>4N<sc>um</sc>P<sc>y</sc>: An Interactive Quantum Chemistry Programming Environment for Reference Implementations and Rapid Development. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3504-3511.	5.3	106
8	<sc>Psi4</sc> 1.1: An Open-Source Electronic Structure Program Emphasizing Automation, Advanced Libraries, and Interoperability. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3185-3197.	5.3	961
9	Frozen Virtual Natural Orbitals for Coupled-Cluster Linear-Response Theory. <i>Journal of Physical Chemistry A</i> , 2017, 121, 708-716.	2.5	40
10	Frozen-Density Embedding Potentials and Chiroptical Properties. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5305-5315.	5.3	16
11	Incremental evaluation of coupled cluster dipole polarizabilities. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14284-14296.	2.8	13