

Nicholas Bauman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9078217/publications.pdf>

Version: 2024-02-01

19
papers

780
citations

840585

11
h-index

752573

20
g-index

20
all docs

20
docs citations

20
times ranked

1015
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupled Cluster Downfolding Methods: the effect of double commutator terms on the accuracy of ground-state energies. <i>Journal of Chemical Physics</i> , 2022, 156, 094106.	1.2	9
2	Coupled Cluster Downfolding Theory: towards universal many-body algorithms for dimensionality reduction of composite quantum systems in chemistry and materials science. <i>Materials Theory</i> , 2022, 6, .	2.2	11
3	Real-time equation-of-motion CC cumulant and CC Green's function simulations of photoemission spectra of water and water dimer. <i>Journal of Chemical Physics</i> , 2022, 157, .	1.2	4
4	Toward Quantum Computing for High-Energy Excited States in Molecular Systems: Quantum Phase Estimations of Core-Level States. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 201-210.	2.3	16
5	Quantum Solvers for Plane-Wave Hamiltonians: Abridging Virtual Spaces Through the Optimization of Pairwise Correlations. <i>Frontiers in Chemistry</i> , 2021, 9, 603019.	1.8	10
6	From NWChem to NWChemEx: Evolving with the Computational Chemistry Landscape. <i>Chemical Reviews</i> , 2021, 121, 4962-4998.	23.0	39
7	Improving the accuracy and efficiency of quantum connected moments expansions *. <i>Quantum Science and Technology</i> , 2021, 6, 034012.	2.6	11
8	Sub-system quantum dynamics using coupled cluster downfolding techniques. <i>Journal of Chemical Physics</i> , 2020, 152, 244127.	1.2	25
9	Resource-Efficient Chemistry on Quantum Computers with the Variational Quantum Eigensolver and the Double Unitary Coupled-Cluster Approach. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6165-6175.	2.3	50
10	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , 2020, 152, 184102.	1.2	425
11	Coupled Cluster Green's function formulations based on the effective Hamiltonians. <i>Molecular Physics</i> , 2020, 118, e1725669.	0.8	5
12	Index of multi-determinantal and multi-reference character in coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2020, 153, 234103.	1.2	17
13	Downfolding of many-body Hamiltonians using active-space models: Extension of the sub-system embedding sub-algebras approach to unitary coupled cluster formalisms. <i>Journal of Chemical Physics</i> , 2019, 151, 014107.	1.2	57
14	Quantum simulations of excited states with active-space downfolded Hamiltonians. <i>Journal of Chemical Physics</i> , 2019, 151, 234114.	1.2	25
15	Application of the CC(<i>P</i> / <i>i</i>);(<i>Q</i> / <i>i</i>) Hierarchy of Coupled-Cluster Methods to the Beryllium Dimer. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1350-1368.	1.1	27
16	Combining active-space coupled-cluster approaches with moment energy corrections via the CC(<i>P</i> / <i>i</i>);(<i>Q</i> / <i>i</i>) methodology: connected quadruple excitations. <i>Molecular Physics</i> , 2017, 115, 2860-2891.	0.8	35
17	Coupled-cluster interpretation of the photoelectron spectrum of Ag3 ⁺ . <i>Journal of Chemical Physics</i> , 2016, 145, 084306.	1.2	3
18	<i>Ab initio</i> coupled-cluster and multi-reference configuration interaction studies of the low-lying electronic states of 1,2,3,4-cyclobutanetetraone. <i>Molecular Physics</i> , 2016, 114, 695-708.	0.8	3

#	ARTICLE	IF	CITATIONS
19	Communication: Coupled-cluster interpretation of the photoelectron spectrum of $\text{Au } 3d^9$. Journal of Chemical Physics, 2014, 141, 101102.	1.2	6