

Grzegorz Aach

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,359
citations

687363

13
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

1367
citing authors

#	ARTICLE	IF	CITATIONS
1	SimRNA: a coarse-grained method for RNA folding simulations and 3D structure prediction. Nucleic Acids Research, 2016, 44, e63-e63.	14.5	281
2	Theoretical Determination of the Dissociation Energy of Molecular Hydrogen. Journal of Chemical Theory and Computation, 2009, 5, 3039-3048.	5.3	174
3	Quantum Electrodynamics Effects in Rovibrational Spectra of Molecular Hydrogen. Journal of Chemical Theory and Computation, 2011, 7, 3105-3115.	5.3	169
4	RNA-Puzzles Round III: 3D RNA structure prediction of five riboswitches and one ribozyme. Rna, 2017, 23, 655-672.	3.5	158
5	Relativistic and Quantum Electrodynamics Effects in the Helium Pair Potential. Physical Review Letters, 2010, 104, 183003.	7.8	135
6	Radiative Corrections to the Polarizability of Helium. Physical Review Letters, 2004, 92, 233001.	7.8	122
7	LigandRNA: computational predictor of RNA-ligand interactions. Rna, 2013, 19, 1605-1616.	3.5	71
8	Rovibrational energy levels of the hydrogen molecule through nonadiabatic perturbation theory. Physical Review A, 2019, 100, .	2.5	51
9	Forbidden transitions in the helium atom. Physical Review A, 2001, 64, .	2.5	47
10	Computational modeling of RNA 3D structures, with the aid of experimental restraints. RNA Biology, 2014, 11, 522-536.	3.1	39
11	Long-range relativistic interactions in the Cowan-Griffin approximation and their QED retardation: Application to helium, calcium, and cadmium dimers. Physical Review A, 2003, 68, .	2.5	23
12	Multipole effects in atom-surface interactions: A theoretical study with an application to He- α -quartz. Physical Review A, 2010, 81, .	2.5	17
13	NMR shielding constants in hydrogen molecule isotopomers. Theoretical Chemistry Accounts, 2011, 129, 325-330.	1.4	16
14	Direct calculation of interaction-induced molecular properties: An application to the relativistic mass-velocity and Darwin terms in the interaction energy of hydrogen atoms. Physical Review A, 2008, 77, .	2.5	12
15	NOBLE GAS, ALKALI AND ALKALINE ATOMS INTERACTING WITH A GOLD SURFACE. International Journal of Modern Physics A, 2010, 25, 2337-2344.	1.5	10
16	Computational Methods for Prediction of RNA Interactions with Metal Ions and Small Organic Ligands. Methods in Enzymology, 2015, 553, 261-285.	1.0	9
17	Einstein-Hopf drag, Doppler shift of thermal radiation and blackbody drag: Three perspectives on quantum friction. Open Physics, 2012, 10, .	1.7	7
18	Isotope Effects on Nuclear Magnetic Shielding in Molecular Hydrogen. Journal of Physical Chemistry A, 2018, 122, 590-593.	2.5	3

#	ARTICLE	IF	CITATIONS
19	Modern Experiments on Atom-Surface Casimir Physics. Lecture Notes in Physics, 2011, , 393-418.	0.7	3
20	Nuclear mass corrections to the Casimir-Polder interaction. Physical Review A, 2016, 93, .	2.5	0
21	NOBLE GAS, ALKALI AND ALKALINE ATOMS INTERACTING WITH A GOLD SURFACE. , 2010, , .		0