

Wojciech Skomorowski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2569083/publications.pdf>

Version: 2024-02-01

27
papers

1,378
citations

430874

18
h-index

526287

27
g-index

29
all docs

29
docs citations

29
times ranked

1174
citing authors

#	ARTICLE	IF	CITATIONS
1	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. <i>Journal of Chemical Physics</i> , 2021, 155, 084801.	3.0	518
2	Directly probing anisotropy in atom-molecule collisions through quantum scattering resonances. <i>Nature Physics</i> , 2017, 13, 35-38.	16.7	99
3	Precise study of asymptotic physics with subradiant ultracold molecules. <i>Nature Physics</i> , 2015, 11, 32-36.	16.7	89
4	Molecular hydrogen interacts more strongly when rotationally excited at low temperatures leading to faster reactions. <i>Nature Chemistry</i> , 2015, 7, 921-926.	13.6	82
5	Coherent Control of Bond Making. <i>Physical Review Letters</i> , 2015, 114, 233003.	7.8	66
6	Interatomic potentials, electric properties and spectroscopy of the ground and excited states of the Rb_2 molecule: <i>ab initio</i> calculations and effect of a non-resonant field*. <i>Molecular Physics</i> , 2013, 111, 1781-1797.	1.7	65
7	Rovibrational dynamics of the strontium molecule in the $\Sigma^+_{g,1}$ manifold from state-of-the-art <i>ab initio</i> calculations. <i>Journal of Chemical Physics</i> , 2012, 136, 194306.	3.0	58
8	Sympathetic cooling of the Ba^+ ion by collisions with ultracold Rb atoms: Theoretical prospects. <i>Physical Review A</i> , 2011, 83, .	2.5	54
9	Interaction between LiH molecule and Li atom from state-of-the-art electronic structure calculations. <i>Journal of Chemical Physics</i> , 2011, 134, 114109.	3.0	36
10	Nonadiabatic Effects in Ultracold Molecules via Anomalous Linear and Quadratic Zeeman Shifts. <i>Physical Review Letters</i> , 2013, 111, 243003.	7.8	33
11	Femtosecond two-photon photoassociation of hot magnesium atoms: A quantum dynamical study using thermal random phase wavefunctions. <i>Journal of Chemical Physics</i> , 2013, 139, 164124.	3.0	30
12	Prospects for sympathetic cooling of molecules in electrostatic, ac and microwave traps. <i>European Physical Journal D</i> , 2011, 65, 141-149.	1.3	29
13	Bound and continuum-embedded states of cyanopolyne anions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4805-4817.	2.8	27
14	Formation of deeply bound ultracold Sr_2 molecules by photoassociation near the $\Sigma^+_{g,1}$ manifold. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4805-4817.	2.5	26
15	Feshbach-Fano approach for calculation of Auger decay rates using equation-of-motion coupled-cluster wave functions. I. Theory and implementation. <i>Journal of Chemical Physics</i> , 2021, 154, 084124.	3.0	24
16	Control of Optical Transitions with Magnetic Fields in Weakly Bound Molecules. <i>Physical Review Letters</i> , 2015, 115, 053001.	7.8	22
17	Real and Imaginary Excitons: Making Sense of Resonance Wave Functions by Using Reduced State and Transition Density Matrices. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4101-4108.	4.6	22
18	Feshbach-Fano approach for calculation of Auger decay rates using equation-of-motion coupled-cluster wave functions. II. Numerical examples and benchmarks. <i>Journal of Chemical Physics</i> , 2021, 154, 084125.	3.0	19

#	ARTICLE	IF	CITATIONS
19	Electronic circular dichroism of disulphide bridge: Ab initio quantum-chemical calculations. Journal of Chemical Physics, 2007, 127, 085102.	3.0	18
20	Cold temperatures invert product ratios in Penning ionisation reactions with argon. Molecular Physics, 2019, 117, 2128-2137.	1.7	11
21	Predissociation dynamics of lithium iodide. Journal of Chemical Physics, 2015, 142, 044303.	3.0	10
22	Coherent control of bond making: the performance of rationally phase-shaped femtosecond laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 184004.	1.5	9
23	Photoassociation Spectroscopy in Penning Ionization Reactions at Sub-Kelvin Temperatures. Journal of Physical Chemistry A, 2016, 120, 3309-3315.	2.5	8
24	Phase protection of Fano-Feshbach resonances. Nature Communications, 2020, 11, 999.	12.8	8
25	Long-range interactions between an atom in its ground S state and an open-shell linear molecule. Journal of Chemical Physics, 2011, 134, 124117.	3.0	7
26	Cold collisions of an open-shell S-state atom with a $2\hat{I}$ molecule: N(4S) colliding with OH in a magnetic field. Physical Chemistry Chemical Physics, 2011, 13, 19077.	2.8	5
27	Kerr and Cotton-Mouton effects in atomic gases: a quantum-statistical study. Molecular Physics, 2013, 111, 1414-1429.	1.7	3