

Konrad Patkowski

List of Publications by Year in descending order

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57
papers

4,174
citations

159585

30
h-index

149698

56
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60
all docs

60
docs citations

60
times ranked

3776
citing authors

#	ARTICLE	IF	CITATIONS
1	Collisional line-shape effects in accurate He-perturbed H ₂ spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107951.	2.3	8
2	Extension of an Atom-Atom Dispersion Function to Halogen Bonds and Its Use for Rational Design of Drugs and Biocatalysts. Journal of Physical Chemistry A, 2021, 125, 1787-1799.	2.5	3
3	Efficient Density-Fitted Explicitly Correlated Dispersion and Exchange Dispersion Energies. Journal of Chemical Theory and Computation, 2021, 17, 1435-1456.	5.3	5
4	Nonapproximated third-order exchange induction energy in symmetry-adapted perturbation theory. Journal of Chemical Physics, 2021, 154, 024103.	3.0	7
5	Recent developments in symmetry-adapted perturbation theory. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2020, 10, e1452.	14.6	102
6	Ab Initio Study of Chiral Discrimination in the Glycidol Dimer. Journal of Physical Chemistry A, 2020, 124, 9436-9450.	2.5	3
7	SI4: Open-source software for high-throughput quantum chemistry. Journal of Chemical Physics, 2020, 152, 184108.	3.0	440
8	H ₂ -He collisions: Ab initio theory meets cavity-enhanced spectra. Physical Review A, 2020, 101, .	2.5	24
9	Interactions of CO ₂ with cluster models of metal-organic frameworks. Journal of Computational Chemistry, 2020, 41, 2066-2083.	3.3	0
10	Chiral Self Recognition: Interactions in Propylene Oxide Complexes. Journal of Physical Chemistry A, 2019, 123, 8607-8618.	2.5	4
11	Platinum, gold, and silver standards of intermolecular interaction energy calculations. Journal of Chemical Physics, 2019, 151, 070901.	3.0	33
12	Explicitly Correlated Dispersion and Exchange Dispersion Energies in Symmetry-Adapted Perturbation Theory. Journal of Chemical Theory and Computation, 2019, 15, 5965-5986.	5.3	13
13	Spin splittings from first-order symmetry-adapted perturbation theory without single-exchange approximation. Journal of Chemical Physics, 2019, 150, 074109.	3.0	9
14	Heats of formation and thermal stability of substituted 1,1'-Azobis(tetrazole) compounds with an extended nitrogen chain. International Journal of Quantum Chemistry, 2019, 119, e25794.	2.0	2
15	Accurate virial coefficients of gaseous krypton from state-of-the-art <i>ab initio</i> potential and polarizability of the krypton dimer. Journal of Chemical Physics, 2018, 148, 024306.	3.0	4
16	First-order symmetry-adapted perturbation theory for multiplet splittings. Journal of Chemical Physics, 2018, 148, 164110.	3.0	12
17	SI4NUPY: An Interactive Quantum Chemistry Programming Environment for Reference Implementations and Rapid Development. Journal of Chemical Theory and Computation, 2018, 14, 3504-3511.	5.3	106
18	Improving Silver-Standard Benchmark Interaction Energies with Bond Functions. Journal of Chemical Theory and Computation, 2018, 14, 3053-3070.	5.3	16

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19	<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
20	Benchmark Databases of Intermolecular Interaction Energies: Design, Construction, and Significance. <i>Annual Reports in Computational Chemistry</i> , 2017, 13, 3-91.	1.7	8
21	Rovibrational line-shape parameters for H ₂ in He and new H ₂ -He potential energy surface. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 308-320.	2.3	42
22	Revised Damping Parameters for the D3 Dispersion Correction to Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2197-2203.	4.6	305
23	Benchmarking the CO ₂ Adsorption Energy on Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4934-4948.	3.1	47
24	An accurate benchmark description of the interactions between carbon dioxide and polyheterocyclic aromatic compounds containing nitrogen. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16560-16574.	2.8	30
25	Accurate <i>ab initio</i> potential for the krypton dimer and transport properties of the low-density krypton gas. <i>Journal of Chemical Physics</i> , 2015, 142, 204307.	3.0	33
26	Toward an Accurate Description of Methane Physisorption on Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 544-550.	3.1	22
27	Fully Quantum Cross Second Virial Coefficients for the Three-Dimensional He-H ₂ Pair. <i>International Journal of Thermophysics</i> , 2014, 35, 1435-1449.	2.1	10
28	Highly Correlated Electronic Structure Calculations of the He-C ₃ van der Waals Complex and Collision-Induced Rotational Transitions of C ₃ . <i>Journal of Physical Chemistry A</i> , 2014, 118, 6351-6360.	2.5	13
29	Basis Set Convergence of the Post-CCSD(T) Contribution to Noncovalent Interaction Energies. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3140-3150.	5.3	43
30	Interactions between Methane and Polycyclic Aromatic Hydrocarbons: A High Accuracy Benchmark Study. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 370-389.	5.3	36
31	Highly accurate potential energy surface for the He-H ₂ dimer. <i>Journal of Chemical Physics</i> , 2013, 139, 144305.	3.0	46
32	Basis set converged weak interaction energies from conventional and explicitly correlated coupled-cluster approach. <i>Journal of Chemical Physics</i> , 2013, 138, 154101.	3.0	30
33	On the accuracy of explicitly correlated coupled-cluster interaction energies – have orbital results been beaten yet?. <i>Journal of Chemical Physics</i> , 2012, 137, 034103.	3.0	49
34	Argon pair potential at basis set and excitation limits. <i>Journal of Chemical Physics</i> , 2010, 133, 094304.	3.0	126
35	Orbital relaxation and the third-order induction energy in symmetry-adapted perturbation theory. <i>Theoretical Chemistry Accounts</i> , 2010, 127, 211-221.	1.4	30
36	Extension of the Hartree-Fock Plus Dispersion Method by First-Order Correlation Effects. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 550-555.	4.6	83

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37	Improved interaction energy benchmarks for dimers of biological relevance. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5974.	2.8	102
38	Full-configuration-interaction calculation of three-body nonadditive contribution to helium interaction potential. <i>Journal of Chemical Physics</i> , 2009, 131, 064105.	3.0	50
39	On the Elusive Twelfth Vibrational State of Beryllium Dimer. <i>Science</i> , 2009, 326, 1382-1384.	12.6	94
40	Dispersionless Density Functional Theory. <i>Physical Review Letters</i> , 2009, 103, 263201.	7.8	159
41	Complete basis set extrapolations of dispersion, exchange, and coupled-cluster contributions to the interaction energy: a helium dimer study. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2053-2075.	2.0	35
42	Potential energy surface for interactions between two hydrogen molecules. <i>Journal of Chemical Physics</i> , 2008, 129, 094304.	3.0	123
43	Interactions in Diatomic Dimers Involving Closed-Shell Metals. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12822-12838.	2.5	90
44	Frozen core and effective core potentials in symmetry-adapted perturbation theory. <i>Journal of Chemical Physics</i> , 2007, 127, 164103.	3.0	26
45	Accurate Pair Interaction Energies for Helium from Supermolecular Gaussian Geminal Calculations. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7611-7623.	2.5	55
46	Pair potential for helium from symmetry-adapted perturbation theory calculations and from supermolecular data. <i>Journal of Chemical Physics</i> , 2007, 127, 124303.	3.0	145
47	Portable parallel implementation of symmetry-adapted perturbation theory code. <i>Molecular Physics</i> , 2006, 104, 2241-2262.	1.7	13
48	Third-order interactions in symmetry-adapted perturbation theory. <i>Journal of Chemical Physics</i> , 2006, 125, 154107.	3.0	93
49	Accurate ab initio potential for argon dimer including highly repulsive region. <i>Molecular Physics</i> , 2005, 103, 2031-2045.	1.7	105
50	Unified treatment of chemical and van der Waals forces via symmetry-adapted perturbation expansion. <i>Journal of Chemical Physics</i> , 2004, 120, 6849-6862.	3.0	44
51	Convergence Behavior of Symmetry-Adapted Perturbation Expansions for Excited States. A Model Study of Interactions Involving a Triplet Helium Atom. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 141-176.	1.0	14
52	Symmetry-forcing procedure and convergence behavior of perturbation expansions for molecular interaction energies. <i>Journal of Chemical Physics</i> , 2002, 117, 5124-5134.	3.0	24
53	Elastic and rotationally inelastic differential cross sections for He+H ₂ O collisions. <i>Journal of Chemical Physics</i> , 2002, 117, 11166-11174.	3.0	25
54	Ab initio potential energy surface and second virial coefficient for He+H ₂ O complex. <i>Computational and Theoretical Chemistry</i> , 2002, 591, 231-243.	1.5	54

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55	Symmetry-adapted perturbation theory with regularized Coulomb potential. Computational and Theoretical Chemistry, 2001, 547, 293-307.	1.5	26
56	Convergence behavior of the symmetry-adapted perturbation theory for states submerged in Pauli forbidden continuum. Journal of Chemical Physics, 2001, 115, 1137-1152.	3.0	32
57	Intermolecular Interactions via Perturbation Theory: From Diatoms to Biomolecules. , 0, , 43-117.		145