

Bogumil Jeziorski

List of Publications by Year in descending order

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76
papers

6,910
citations

87888

38
h-index

82547

72
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77
all docs

77
docs citations

77
times ranked

3522
citing authors

#	ARTICLE	IF	CITATIONS
1	Perturbation Theory Approach to Intermolecular Potential Energy Surfaces of van der Waals Complexes. <i>Chemical Reviews</i> , 1994, 94, 1887-1930.	47.7	2,385
2	Variation-perturbation treatment of the hydrogen bond between water molecules. <i>Molecular Physics</i> , 1976, 31, 713-729.	1.7	271
3	Effects of adiabatic, relativistic, and quantum electrodynamic interactions on the pair potential and thermophysical properties of helium. <i>Journal of Chemical Physics</i> , 2012, 136, 224303.	3.0	241
4	Symmetry-adapted double-perturbation analysis of intramolecular correlation effects in weak intermolecular interactions. <i>Molecular Physics</i> , 1979, 38, 191-208.	1.7	227
5	Theoretical Determination of the Dissociation Energy of Molecular Hydrogen. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 3039-3048.	5.3	174
6	Quantum Electrodynamics Effects in Rovibrational Spectra of Molecular Hydrogen. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3105-3115.	5.3	169
7	Direct calculation of the Hartree-Fock interaction energy via exchange-perturbation expansion. The He ⁺ He interaction. <i>International Journal of Quantum Chemistry</i> , 1987, 32, 149-164.	2.0	159
8	First-Order perturbation treatment of the short-range repulsion in a system of many closed-shell atoms or molecules. <i>International Journal of Quantum Chemistry</i> , 1976, 10, 281-297.	2.0	155
9	Intermolecular Interactions via Perturbation Theory: From Diatoms to Biomolecules. , 0, , 43-117.		145
10	Symmetry-adapted perturbation theory calculation of the Ar ⁺ H ₂ intermolecular potential energy surface. <i>Journal of Chemical Physics</i> , 1993, 98, 1279-1292.	3.0	142
11	Many-body theory of exchange effects in intermolecular interactions. Density matrix approach and applications to He ⁺ F ⁺ , He ⁺ HF, H ₂ ⁺ HF, and Ar ⁺ H ₂ dimers. <i>Journal of Chemical Physics</i> , 1994, 100, 5080-5092.	3.0	140
12	Relativistic and Quantum Electrodynamics Effects in the Helium Pair Potential. <i>Physical Review Letters</i> , 2010, 104, 183003.	7.8	135
13	Pair potential for water from symmetry-adapted perturbation theory. <i>Journal of Chemical Physics</i> , 1997, 107, 4207-4218.	3.0	133
14	Symmetry forcing and convergence properties of perturbation expansions for molecular interaction energies. <i>International Journal of Quantum Chemistry</i> , 1978, 14, 271-287.	2.0	128
15	Coupled cluster approach or quadratic configuration interaction?. <i>Journal of Chemical Physics</i> , 1989, 90, 4356-4362.	3.0	123
16	Radiative Corrections to the Polarizability of Helium. <i>Physical Review Letters</i> , 2004, 92, 233001.	7.8	122
17	On the optimal choice of monomer geometry in calculations of intermolecular interaction energies: Rovibrational spectrum of Ar ⁺ HF from two- and three-dimensional potentials. <i>Journal of Chemical Physics</i> , 2000, 113, 2957-2968.	3.0	100
18	Time-independent coupled cluster theory of the polarization propagator. Implementation and application of the singles and doubles model to dynamic polarizabilities and van der Waals constants. <i>Molecular Physics</i> , 2006, 104, 2303-2316.	1.7	82

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19	Exchange polarization effects in the interaction of closed-shell systems. <i>Theoretica Chimica Acta</i> , 1977, 46, 277-290.	0.8	81
20	Unitary group approach to spin-adapted open-shell coupled cluster theory. <i>International Journal of Quantum Chemistry</i> , 1995, 56, 129-155.	2.0	75
21	On the exchange polarization effects in the interaction of two helium atoms. <i>Molecular Physics</i> , 1976, 32, 81-91.	1.7	72
22	On the multipole structure of exchange dispersion energy in the interaction of two helium atoms. <i>Molecular Physics</i> , 1977, 33, 971-977.	1.7	69
23	Gaussian geminals in explicitly correlated coupled cluster theory including single and double excitations. <i>Journal of Chemical Physics</i> , 1999, 110, 4165-4183.	3.0	67
24	On the convergence properties of the Rayleigh-Schrödinger and the Hirschfelder-Silbey perturbation expansions for molecular interaction energies. <i>International Journal of Quantum Chemistry</i> , 1977, 11, 247-257.	2.0	66
25	Explicitly connected expansion for the average value of an observable in the coupled-cluster theory. <i>International Journal of Quantum Chemistry</i> , 1993, 48, 161-183.	2.0	66
26	Accurate Theoretical ² -Decay Energy Spectrum of the Tritium Molecule and Its Neutrino Mass Dependence. <i>Physical Review Letters</i> , 1985, 55, 1388-1391.	7.8	62
27	Theoretical determination of the polarizability dispersion and the refractive index of helium. <i>Physical Review A</i> , 2016, 93, .	2.5	62
28	Møller-Plesset expansion of the dispersion energy in the ring approximation. <i>International Journal of Quantum Chemistry</i> , 1993, 45, 409-431.	2.0	61
29	On the convergence of the symmetrized Rayleigh-Schrödinger perturbation theory for molecular interaction energies. <i>Journal of Chemical Physics</i> , 1992, 97, 7555-7559.	3.0	59
30	Breit-Pauli and Direct Perturbation Theory Calculations of Relativistic Helium Polarizability. <i>Physical Review Letters</i> , 2001, 86, 5675-5678.	7.8	59
31	Symmetry-adapted perturbation theory calculation of the intraatomic correlation contribution to the short-range repulsion of helium atoms. <i>Journal of Chemical Physics</i> , 1990, 92, 7441-7447.	3.0	54
32	Pair Potential with Submillikelvin Uncertainties and Nonadiabatic Treatment of the Halo State of the Helium Dimer. <i>Physical Review Letters</i> , 2017, 119, 123401.	7.8	52
33	An accurate calculation of the first-order interaction energy for the helium dimer. <i>Journal of Chemical Physics</i> , 1989, 91, 4779-4784.	3.0	51
34	Bounds for the scattering length of spin-polarized helium from high-accuracy electronic structure calculations. <i>Journal of Chemical Physics</i> , 2005, 123, 134315.	3.0	50
35	Bethe logarithm and Lamb shift for the hydrogen molecular ion. <i>International Journal of Quantum Chemistry</i> , 1992, 42, 287-319.	2.0	47
36	Multireference coupled-cluster Ansatz. <i>Molecular Physics</i> , 2010, 108, 3043-3054.	1.7	47

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37	An exact treatment of the induction interaction between the atoms in the hydrogen molecule. <i>Molecular Physics</i> , 1974, 27, 649-655.	1.7	45
38	Convergence properties and large-order behavior of the polarization expansion for the interaction energy of hydrogen atoms. <i>Chemical Physics Letters</i> , 1992, 195, 67-76.	2.6	41
39	Second virial coefficients for ^4He and ^3He from an accurate relativistic interaction potential. <i>Physical Review A</i> , 2020, 102, .	2.5	41
40	Electrostatic interactions between molecules from relaxed one-electron density matrices of the coupled cluster singles and doubles model. <i>Molecular Physics</i> , 2002, 100, 1723-1734.	1.7	38
41	Symmetry-adapted perturbation theory of potential-energy surfaces for weakly bound molecular complexes. <i>Computational and Theoretical Chemistry</i> , 1994, 307, 135-151.	1.5	35
42	Complete basis set extrapolations of dispersion, exchange, and coupled clusters contributions to the interaction energy: a helium dimer study. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2053-2075.	2.0	35
43	Exact calculation of exchange polarization energy for H_2^+ ion. <i>International Journal of Quantum Chemistry</i> , 1973, 7, 63-73.	2.0	34
44	Unitary group based open-shell coupled cluster theory: Application to van der Waals interactions of high-spin systems. <i>Journal of Chemical Physics</i> , 1999, 111, 1857-1869.	3.0	34
45	Frequency-Dependent Polarizability of Helium Including Relativistic Effects with Nuclear Recoil Terms. <i>Physical Review Letters</i> , 2015, 114, 173004.	7.8	34
46	QED calculation of the dipole polarizability of helium atom. <i>Physical Review A</i> , 2020, 101, .	2.5	34
47	Convergence behavior of the symmetry-adapted perturbation theory for states submerged in Pauli forbidden continuum. <i>Journal of Chemical Physics</i> , 2001, 115, 1137-1152.	3.0	32
48	Convergence of symmetry-adapted perturbation theory expansions for pairwise nonadditive interatomic interactions. <i>Journal of Chemical Physics</i> , 1996, 105, 8178-8186.	3.0	30
49	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
50	Complete Basis Set Extrapolation of Electronic Correlation Energies Using the Riemann Zeta Function. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5398-5403.	5.3	28
51	Completeness criteria for explicitly correlated Gaussian geminal bases of axial symmetry. <i>International Journal of Quantum Chemistry</i> , 1997, 61, 769-776.	2.0	27
52	Reexamination of the calculation of two-center, two-electron integrals over Slater-type orbitals. III. Case study of the beryllium dimer. <i>Physical Review A</i> , 2015, 91, .	2.5	27
53	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
54	Explicitly-correlated Gaussian geminals in electronic structure calculations. <i>Molecular Physics</i> , 2010, 108, 3091-3103.	1.7	23

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55	Dispersion interaction of high-spin open-shell complexes in the random phase approximation. <i>Journal of Chemical Physics</i> , 2003, 119, 10497-10511.	3.0	21
56	Long-range asymptotic expansion of the diagonal Born-Oppenheimer correction. <i>Chemical Physics</i> , 2012, 401, 170-179.	1.9	20
57	Onset of Casimir-Polder Retardation in a Long-Range Molecular Quantum State. <i>Physical Review Letters</i> , 2012, 108, 183201.	7.8	18
58	Perturbation theory calculations of intermolecular interaction energies. <i>International Journal of Quantum Chemistry</i> , 1991, 40, 23-36.	2.0	15
59	Higher dispersion coefficients for the interaction of helium atoms. <i>Chemical Physics Letters</i> , 2008, 459, 183-187.	2.6	14
60	Multipole structure of exchange polarization energy for H ₂ ⁺ Ion. <i>International Journal of Quantum Chemistry</i> , 1973, 7, 745-757.	2.0	13
61	Theoretical determination of polarizability and magnetic susceptibility of neon. <i>Physical Review A</i> , 2020, 102, .	2.5	13
62	Degenerate symmetry-adapted perturbation theory of weak interactions between closed- and open-shell monomers: application to Rydberg states of helium hydride. <i>Theoretical Chemistry Accounts</i> , 1999, 101, 282-291.	1.4	12
63	Direct calculation of interaction-induced molecular properties: An application to the relativistic mass-velocity and Darwin terms in the interaction energy of hydrogen atoms. <i>Physical Review A</i> , 2008, 77, .	2.5	12
64	Infinite-order functional for nonlinear parameters optimization in explicitly correlated coupled cluster theory. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2872-2884.	2.0	7
65	Asymptotics of the exchange-splitting energy for a diatomic molecular ion from a volume-integral formula of symmetry-adapted perturbation theory. <i>Physical Review A</i> , 2014, 90, .	2.5	7
66	A perturbation calculation of the ground state ($X^1\Sigma^+_g$) energy of the hydrogen molecule. <i>Chemical Physics Letters</i> , 1994, 224, 476-482.	2.6	6
67	Path-integral calculation of the third dielectric virial coefficient of noble gases. <i>Journal of Chemical Physics</i> , 2021, 155, 234103.	3.0	6
68	Exchange splitting of the interaction energy and the multipole expansion of the wave function. <i>Journal of Chemical Physics</i> , 2015, 143, 154106.	3.0	5
69	Determination of the exchange interaction energy from the polarization expansion of the wave function. <i>Physical Review A</i> , 2016, 94, .	2.5	5
70	Convergence properties of the multipole expansion of the exchange contribution to the interaction energy. <i>Molecular Physics</i> , 2016, 114, 1176-1188.	1.7	4
71	Size consistency and counterpoise correction in explicitly correlated calculations of interaction energies and interaction-induced properties. <i>Physical Review A</i> , 2019, 99, .	2.5	4
72	Quantum chemical contribution to electron neutrino mass determination. <i>International Journal of Quantum Chemistry</i> , 1985, 28, 421-441.	2.0	3

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73	Theoretical description of muonic molecular ions. AIP Conference Proceedings, 1988, , .	0.4	1
74	Nonadiabatic calculations for d ⁺ relevant for muon catalyzed fusion. International Journal of Quantum Chemistry, 1991, 40, 671-686.	2.0	0
75	Nonrelativistic Lamb shift for muonic molecules. Hyperfine Interactions, 1993, 82, 179-184.	0.5	0
76	Density effects in antiprotonic helium. AIP Conference Proceedings, 2001, , .	0.4	0