

Bogumil Jeziorski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7691327/publications.pdf>

Version: 2024-02-01

76
papers

6,910
citations

87888

38
h-index

82547

72
g-index

77
all docs

77
docs citations

77
times ranked

3522
citing authors

#	ARTICLE	IF	CITATIONS
1	Path-integral calculation of the third dielectric virial coefficient of noble gases. Journal of Chemical Physics, 2021, 155, 234103.	3.0	6
2	Second virial coefficients for ^4He and ^3He from an accurate relativistic interaction potential. Physical Review A, 2020, 102, .	2.5	41
3	Theoretical determination of polarizability and magnetic susceptibility of neon. Physical Review A, 2020, 102, .	2.5	13
4	QED calculation of the dipole polarizability of helium atom. Physical Review A, 2020, 101, .	2.5	34
5	Complete Basis Set Extrapolation of Electronic Correlation Energies Using the Riemann Zeta Function. Journal of Chemical Theory and Computation, 2019, 15, 5398-5403.	5.3	28
6	Size consistency and counterpoise correction in explicitly correlated calculations of interaction energies and interaction-induced properties. Physical Review A, 2019, 99, .	2.5	4
7	Pair Potential with Submillikelvin Uncertainties and Nonadiabatic Treatment of the Halo State of the Helium Dimer. Physical Review Letters, 2017, 119, 123401.	7.8	52
8	Determination of the exchange interaction energy from the polarization expansion of the wave function. Physical Review A, 2016, 94, .	2.5	5
9	Theoretical determination of the polarizability dispersion and the refractive index of helium. Physical Review A, 2016, 93, .	2.5	62
10	Convergence properties of the multipole expansion of the exchange contribution to the interaction energy. Molecular Physics, 2016, 114, 1176-1188.	1.7	4
11	Exchange splitting of the interaction energy and the multipole expansion of the wave function. Journal of Chemical Physics, 2015, 143, 154106.	3.0	5
12	Reexamination of the calculation of two-center, two-electron integrals over Slater-type orbitals. III. Case study of the beryllium dimer. Physical Review A, 2015, 91, .	2.5	27
13	Frequency-Dependent Polarizability of Helium Including Relativistic Effects with Nuclear Recoil Terms. Physical Review Letters, 2015, 114, 173004.	7.8	34
14	Asymptotics of the exchange-splitting energy for a diatomic molecular ion from a volume-integral formula of symmetry-adapted perturbation theory. Physical Review A, 2014, 90, .	2.5	7
15	Onset of Casimir-Polder Retardation in a Long-Range Molecular Quantum State. Physical Review Letters, 2012, 108, 183201.	7.8	18
16	Effects of adiabatic, relativistic, and quantum electrodynamics interactions on the pair potential and thermophysical properties of helium. Journal of Chemical Physics, 2012, 136, 224303.	3.0	241
17	Long-range asymptotic expansion of the diagonal Born-Oppenheimer correction. Chemical Physics, 2012, 401, 170-179.	1.9	20
18	Quantum Electrodynamics Effects in Rovibrational Spectra of Molecular Hydrogen. Journal of Chemical Theory and Computation, 2011, 7, 3105-3115.	5.3	169

#	ARTICLE	IF	CITATIONS
19	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
20	Multireference coupled-cluster Ansatz. <i>Molecular Physics</i> , 2010, 108, 3043-3054.	1.7	47
21	Relativistic and Quantum Electrodynamics Effects in the Helium Pair Potential. <i>Physical Review Letters</i> , 2010, 104, 183003.	7.8	135
22	Explicitly-correlated Gaussian geminals in electronic structure calculations. <i>Molecular Physics</i> , 2010, 108, 3091-3103.	1.7	23
23	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
24	Theoretical Determination of the Dissociation Energy of Molecular Hydrogen. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 3039-3048.	5.3	174
25	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
26	Higher dispersion coefficients for the interaction of helium atoms. <i>Chemical Physics Letters</i> , 2008, 459, 183-187.	2.6	14
27	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
28	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
29	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
30	Radiative Corrections to the Polarizability of Helium. <i>Physical Review Letters</i> , 2004, 92, 233001.	7.8	122
31	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
32	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
33	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
34	Density effects in antiprotonic helium. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	0
35	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
36	Breit-Pauli and Direct Perturbation Theory Calculations of Relativistic Helium Polarizability. <i>Physical Review Letters</i> , 2001, 86, 5675-5678.	7.8	59

#	ARTICLE	IF	CITATIONS
37	On the optimal choice of monomer geometry in calculations of intermolecular interaction energies: Rovibrational spectrum of Arâ€“HF from two- and three-dimensional potentials. Journal of Chemical Physics, 2000, 113, 2957-2968.	3.0	100
38	Unitary group based open-shell coupled cluster theory: Application to van der Waals interactions of high-spin systems. Journal of Chemical Physics, 1999, 111, 1857-1869.	3.0	34
39	Gaussian geminals in explicitly correlated coupled cluster theory including single and double excitations. Journal of Chemical Physics, 1999, 110, 4165-4183.	3.0	67
40	Degenerate symmetry-adapted perturbation theory of weak interactions between closed- and open-shell monomers: application to Rydberg states of helium hydride. Theoretical Chemistry Accounts, 1999, 101, 282-291.	1.4	12
41	Pair potential for water from symmetry-adapted perturbation theory. Journal of Chemical Physics, 1997, 107, 4207-4218.	3.0	133
42	Completeness criteria for explicitly correlated Gaussian geminal bases of axial symmetry. International Journal of Quantum Chemistry, 1997, 61, 769-776.	2.0	27
43	Convergence of symmetryâ€“adapted perturbation theory expansions for pairwise nonadditive interatomic interactions. Journal of Chemical Physics, 1996, 105, 8178-8186.	3.0	30
44	Unitary group approach to spin-adapted open-shell coupled cluster theory. International Journal of Quantum Chemistry, 1995, 56, 129-155.	2.0	75
45	A perturbation calculation of the ground state ($X\ 1\ 1^+g$) energy of the hydrogen molecule. Chemical Physics Letters, 1994, 224, 476-482.	2.6	6
46	Symmetry-adapted perturbation theory of potential-energy surfaces for weakly bound molecular complexes. Computational and Theoretical Chemistry, 1994, 307, 135-151.	1.5	35
47	Manyâ€“body theory of exchange effects in intermolecular interactions. Density matrix approach and applications to Heâ€“Fâ€“, Heâ€“HF, H2â€“HF, and Arâ€“H2 dimers. Journal of Chemical Physics, 1994, 100, 5080-5092.	3.0	140
48	Perturbation Theory Approach to Intermolecular Potential Energy Surfaces of van der Waals Complexes. Chemical Reviews, 1994, 94, 1887-1930.	47.7	2,385
49	MÃ¼ller-Plesset expansion of the dispersion energy in the ring approximation. International Journal of Quantum Chemistry, 1993, 45, 409-431.	2.0	61
50	Explicitly connected expansion for the average value of an observable in the coupled-cluster theory. International Journal of Quantum Chemistry, 1993, 48, 161-183.	2.0	66
51	Nonrelativistic Lamb shift for muonic molecules. Hyperfine Interactions, 1993, 82, 179-184.	0.5	0
52	Symmetryâ€“adapted perturbation theory calculation of the Arâ€“H2 intermolecular potential energy surface. Journal of Chemical Physics, 1993, 98, 1279-1292.	3.0	142
53	On the convergence of the symmetrized Rayleighâ€“SchrÃ¶dinger perturbation theory for molecular interaction energies. Journal of Chemical Physics, 1992, 97, 7555-7559.	3.0	59
54	Bethe logarithm and Lamb shift for the hydrogen molecular ion. International Journal of Quantum Chemistry, 1992, 42, 287-319.	2.0	47

#	ARTICLE	IF	CITATIONS
55	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
56	Perturbation theory calculations of intermolecular interaction energies. <i>International Journal of Quantum Chemistry</i> , 1991, 40, 23-36.	2.0	15
57	Nonadiabatic calculations for the muon catalyzed fusion. <i>International Journal of Quantum Chemistry</i> , 1991, 40, 671-686.	2.0	0
58	Symmetry-adapted perturbation theory calculation of the intra-atomic correlation contribution to the short-range repulsion of helium atoms. <i>Journal of Chemical Physics</i> , 1990, 92, 7441-7447.	3.0	54
59	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
60	Coupled cluster approach or quadratic configuration interaction?. <i>Journal of Chemical Physics</i> , 1989, 90, 4356-4362.	3.0	123
61	Theoretical description of muonic molecular ions. <i>AIP Conference Proceedings</i> , 1988, , .	0.4	1
62	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
63	Accurate Theoretical β -Decay Energy Spectrum of the Tritium Molecule and Its Neutrino Mass Dependence. <i>Physical Review Letters</i> , 1985, 55, 1388-1391.	7.8	62
64	Quantum chemical contribution to electron neutrino mass determination. <i>International Journal of Quantum Chemistry</i> , 1985, 28, 421-441.	2.0	3
65	Symmetry-adapted double-perturbation analysis of intramolecular correlation effects in weak intermolecular interactions. <i>Molecular Physics</i> , 1979, 38, 191-208.	1.7	227
66	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
67	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
68	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
69	Exchange polarization effects in the interaction of closed-shell systems. <i>Theoretica Chimica Acta</i> , 1977, 46, 277-290.	0.8	81
70	On the exchange polarization effects in the interaction of two helium atoms. <i>Molecular Physics</i> , 1976, 32, 81-91.	1.7	72
71	Variation-perturbation treatment of the hydrogen bond between water molecules. <i>Molecular Physics</i> , 1976, 31, 713-729.	1.7	271
72	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

#	ARTICLE	IF	CITATIONS
73	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
74	Exact calculation of exchange polarization energy for H ₂ ⁺ ion. <i>International Journal of Quantum Chemistry</i> , 1973, 7, 63-73.	2.0	34
75	Multipole structure of exchange polarization energy for H ₂ ⁺ Ion. <i>International Journal of Quantum Chemistry</i> , 1973, 7, 745-757.	2.0	13
76	Intermolecular Interactions via Perturbation Theory: From Diatoms to Biomolecules. , 0, , 43-117.		145