MichaÅ, Przybytek

List of Publications by Year
in descending order

25	1,242	516215 16	552369 26
papers	citations	h-index	g-index

26	26	26	864
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of adiabatic, relativistic, and quantum electrodynamics interactions on the pair potential and thermophysical properties of helium. Journal of Chemical Physics, 2012, 136, 224303.	1.2	241
2	Theoretical Determination of the Dissociation Energy of Molecular Hydrogen. Journal of Chemical Theory and Computation, 2009, 5, 3039-3048.	2.3	174
3	Quantum Electrodynamics Effects in Rovibrational Spectra of Molecular Hydrogen. Journal of Chemical Theory and Computation, 2011, 7, 3105-3115.	2.3	169
4	Relativistic and Quantum Electrodynamics Effects in the Helium Pair Potential. Physical Review Letters, 2010, 104, 183003.	2.9	135
5	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 constantsâ€. Molecular Physics, 2006, 104, 2303-2316.	0.8	82
6	Pair Potential with Submillikelvin Uncertainties and Nonadiabatic Treatment of the Halo State of the Helium Dimer. Physical Review Letters, 2017, 119, 123401.	2.9	52
7	Bounds for the scattering length of spin-polarized helium from high-accuracy electronic structure calculations. Journal of Chemical Physics, 2005, 123, 134315.	1.2	50
8	Second virial coefficients for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts></mml:math> from an accurate relativistic interaction potential. Physical Review A, 2020, 102, .	1.0	41
9	Crossover between few and many fermions in a harmonic trap. Physical Review A, 2015, 92, .	1.0	37
10	Many interacting fermions in a one-dimensional harmonic trap: a quantum-chemical treatment. New Journal of Physics, 2015, 17, 115001.	1.2	35
11	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, .	1.0	27
12	Ab initio Potential Energy Curve for the Ground State of Beryllium Dimer. Journal of Chemical Theory and Computation, 2019, 15, 2470-2480.	2.3	25
13	Long-range asymptotic expansion of the diagonal Bornâ€“Oppenheimer correction. Chemical Physics, 2012, 401, 170-179.	0.9	20
14	Onset of Casimir-Polder Retardation in a Long-Range Molecular Quantum State. Physical Review Letters, 2012, 108, 183201.	2.9	18
15	Symmetry-Adapted Perturbation Theory Based on Multiconfigurational Wave Function Description of Monomers. Journal of Chemical Theory and Computation, 2021, 17, 5538-5555.	2.3	18
16	Second-Order Dispersion Energy Based on Multireference Description of Monomers. Journal of Chemical Theory and Computation, 2019, 15, 1016-1027.	2.3	17
17	Convergence Behavior of Symmetry-Adapted Perturbation Expansions for Excited States. A Model Study of Interactions Involving a Triplet Helium Atom. Collection of Czechoslovak Chemical Communications, 2004, 69, 141-176.	1.0	14
18	Higher dispersion coefficients for the interaction of helium atoms. Chemical Physics Letters, 2008, 459, 183-187.	1.2	14

#	Article	IF	Citations
19	Theoretical determination of polarizability and magnetic susceptibility of neon. Physical Review A, 2020, 102, .	1.0	13
20	A systematic construction of Gaussian basis sets for the description of laser field ionization and high-harmonic generation. Journal of Chemical Physics, 2021, 154, 094111.	1.2	12
21	Second-Order Exchange-Dispersion Energy Based on a Multireference Description of Monomers. Journal of Chemical Theory and Computation, 2019, 15, 6712-6723.	2.3	11
22	Dispersion Energy of Symmetry-Adapted Perturbation Theory from the Explicitly Correlated F12 Approach. Journal of Chemical Theory and Computation, 2018, 14, 5105-5117.	2.3	9
23	Infiniteâ€order functional for nonlinear parameters optimization in explicitly correlated coupled cluster theory. International Journal of Quantum Chemistry, 2009, 109, 2872-2884.	1.0	7
24	Effects of electronic correlation on the high harmonic generation in helium: A time-dependent configuration interaction singles vs time-dependent full configuration interaction study. Journal of Chemical Physics, 2022, 156, 174106.	1.2	7
25	Correlation energies for many-electron atoms with explicitly correlated Slater functions. Physical Review A, 2018, 98, .	1.0	3