Petr ÄŒÃ¡rsky

List of Publications by Year
in descending order

29 papers	394 citations	1040056 9 h-index	752698 20 g-index
29 all docs	29 docs citations	29 times ranked	234 citing authors

#	Article	IF	Citations
1	Size-extensivity correction for the state-specific multireference Brillouinâ€“Wigner coupled-cluster theory. Journal of Chemical Physics, 2000, 112, 8779-8784.	3.0	180
2	Four- and 8-reference state-specific Brillouin-Wigner coupled-cluster method: Study of the singlet oxygen. International Journal of Quantum Chemistry, 2002, 90, 1031-1037.	2.0	39
3	Multireference configuration interaction and coupled-cluster calculations on the X3Î£â^', a1Î”, and b1Î£+ states of the NF molecule. International Journal of Quantum Chemistry, 2005, 104, 458-467.	2.0	22
4	Ground states of BeC and MgC: A comparative multireference Brillouin-Wigner coupled cluster and configuration interaction study. International Journal of Quantum Chemistry, 2005, 102, 762-774.	2.0	20
5	Discrete momentum representation of the Lippmann-Schwinger equation and its application to electron-molecule scattering. Physical Review A, 2000, 61, .	2.5	17
6	Efficient evaluation of Coulomb integrals in a mixed Gaussian and plane-wave basis using the density fitting and Cholesky decomposition. Journal of Chemical Physics, 2012, 136, 114105.	3.0	14
7	Improved method of calculating group polarization effects: constants ??. Journal of Physical Organic Chemistry, 1998, 11, 485-488.	1.9	12
8	Cubic-grid Gaussian basis sets for electron scattering calculations. I. Definition and construction. International Journal of Quantum Chemistry, 1995, 53, 419-429.	2.0	10
9	Efficient evaluation of Coulomb integrals in a mixed Gaussian and plane-wave basis. International Journal of Quantum Chemistry, 2007, 107, 56-62.	2.0	10
10	B_kapproximation applied to CI-SDTQ. Molecular Physics, 1996, 88, 1137-1142.	1.7	8
11	Discrete momentum representation method for polar molecules: Calculation of the elastic electron scattering on theH2Omolecule. Physical Review A, 2000, 62, .	2.5	8
12	Joint Experimental and Theoretical Study on Vibrational Excitation Cross Sections for Electron Collisions with Diacetylene. Journal of Physical Chemistry A, 2014, 118, 9734-9744.	2.5	8
13	Cubic-grid Gaussian basis sets for electron scattering calculations. II. Matrix elements. International Journal of Quantum Chemistry, 1995, 53, 431-436.	2.0	5
14	Bk approximation applied to the multireference configuration interaction method. International Journal of Quantum Chemistry, 2000, 76, 185-196.	2.0	5
15	Density fitting for derivatives of Coulomb integrals in ab initio calculations using mixed Gaussian and planeâ€wave basis. International Journal of Quantum Chemistry, 2009, 109, 1237-1242.	2.0	5
16	Calculation of dipole polarizability derivatives of adamantane and their use in electron scattering computations. European Physical Journal D, 2016, 70, 1.	1.3	5
17	Cubic-grid Gaussian basis sets for electron scattering calculations. III. Effect of basis-set translation and size on the calculated cross section. International Journal of Quantum Chemistry, 1995, 53, 437-450.	2.0	4
18	Towards efficientab initiocalculations of electron scattering by polyatomic molecules: II. Efficient evaluation of exchange integrals. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 175204.	1.5	4

#	ARTICLE	IF	CITATIONS
19	Coupling of electronic and nuclear motion in a negative ion resonance: Experimental and theoretical study of benzene. Journal of Chemical Physics, 2019, 151, 064119.	3.0	4
20	New general formulas for matrix elements of the free-particle Green's function over Cartesian Gaussians. Theoretica Chimica Acta, 1996, 93, 49-59.	0.8	3
21	Towards efficientab initiocalculations of electron scattering by polyatomic molecules: I. Efficient numerical quadrature of the UGT term. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 175203.	1.5	3
22	Efficient evaluation of exchange integrals by means of Fourier transform of the 1/r operator and its numerical quadrature. Theoretical Chemistry Accounts, 2014, 133, 1.	1.4	3
23	Vibrational Spectra by Electron Impact: Theoretical Models for Intensities. Computational Chemistry - Reviews of Current Trends, 2006, , 121-137.	0.4	2
24	Perspective on "MO approach to electronic spectra of radicals" ÄŒÃ¡rsky P, ZahradnÃk R (1973) Top Curr Chem 43: 1. Theoretical Chemistry Accounts, 2000, 103, 315-316.	1.4	1
25	Use of graphics processing units for efficient evaluation of derivatives of exchange integrals by means of Fourier transform of the 1/r operator and its numerical quadrature. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	1
26	Vibrational Excitations of Polyatomic Molecules. , 2011, , 263-282.		1
27	Angular Distributions for Vibrationally Inelastic Nonresonant Scattering of Electrons by Moleculesâ€. Journal of Physical Chemistry A, 2007, 111, 12216-12228.	2.5	0
28	Prospects of using the second-order perturbation theory of the MP2 type in the theory of electron scattering by polyatomic molecules. , 2015, , .		0
29	Quantum Nanochemistry: 5-Volume Set. By Mihai V. Putz. International Journal of Molecular Sciences, 2016, 17, 1358.	4.1	0