

Petr AĚrsky

List of Publications by Year in descending order

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29
papers

394
citations

1040056

9
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752698

20
g-index

29
all docs

29
docs citations

29
times ranked

234
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling of electronic and nuclear motion in a negative ion resonance: Experimental and theoretical study of benzene. <i>Journal of Chemical Physics</i> , 2019, 151, 064119.	3.0	4
2	Quantum Nanochemistry: 5-Volume Set. By Mihai V. Putz. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1358.	4.1	0
3	Calculation of dipole polarizability derivatives of adamantane and their use in electron scattering computations. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	5
4	Prospects of using the second-order perturbation theory of the MP2 type in the theory of electron scattering by polyatomic molecules. , 2015, , .		0
5	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. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	1.4	1
6	Efficient evaluation of exchange integrals by means of Fourier transform of the $1/r$ operator and its numerical quadrature. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	1.4	3
7	Joint Experimental and Theoretical Study on Vibrational Excitation Cross Sections for Electron Collisions with Diacetylene. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9734-9744.	2.5	8
8	Efficient evaluation of Coulomb integrals in a mixed Gaussian and plane-wave basis using the density fitting and Cholesky decomposition. <i>Journal of Chemical Physics</i> , 2012, 136, 114105.	3.0	14
9	Vibrational Excitations of Polyatomic Molecules. , 2011, , 263-282.		1
10	Towards efficient <i>ab initio</i> calculations of electron scattering by polyatomic molecules: I. Efficient numerical quadrature of the UGT term. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 175203.	1.5	3
11	Towards efficient <i>ab initio</i> calculations of electron scattering by polyatomic molecules: II. Efficient evaluation of exchange integrals. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 175204.	1.5	4
12	Density fitting for derivatives of Coulomb integrals in <i>ab initio</i> calculations using mixed Gaussian and plane-wave basis. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 1237-1242.	2.0	5
13	Angular Distributions for vibrationally inelastic nonresonant scattering of electrons by molecules. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12216-12228.	2.5	0
14	Efficient evaluation of Coulomb integrals in a mixed Gaussian and plane-wave basis. <i>International Journal of Quantum Chemistry</i> , 2007, 107, 56-62.	2.0	10
15	Vibrational Spectra by Electron Impact: Theoretical Models for Intensities. <i>Computational Chemistry - Reviews of Current Trends</i> , 2006, , 121-137.	0.4	2
16	Ground states of BeC and MgC: A comparative multireference Brillouin-Wigner coupled cluster and configuration interaction study. <i>International Journal of Quantum Chemistry</i> , 2005, 102, 762-774.	2.0	20
17	Multireference configuration interaction and coupled-cluster calculations on the $X^3\Sigma^+$, $a^1\Pi$, and $b^1\Sigma^+$ states of the NF molecule. <i>International Journal of Quantum Chemistry</i> , 2005, 104, 458-467.	2.0	22
18	Four- and 8-reference state-specific Brillouin-Wigner coupled-cluster method: Study of the singlet oxygen. <i>International Journal of Quantum Chemistry</i> , 2002, 90, 1031-1037.	2.0	39

#	ARTICLE	IF	CITATIONS
19	Bk approximation applied to the multireference configuration interaction method. International Journal of Quantum Chemistry, 2000, 76, 185-196.	2.0	5
20	Perspective on "MO approach to electronic spectra of radicals" ĀĀĀrsky P, ZahradnĀk R (1973) Top Curr Chem 43: 1. Theoretical Chemistry Accounts, 2000, 103, 315-316.	1.4	1
21	Discrete momentum representation of the Lippmann-Schwinger equation and its application to electron-molecule scattering. Physical Review A, 2000, 61, .	2.5	17
22	Discrete momentum representation method for polar molecules: Calculation of the elastic electron scattering on the H ₂ O molecule. Physical Review A, 2000, 62, .	2.5	8
23	Size-extensivity correction for the state-specific multireference BrillouinĀWigner coupled-cluster theory. Journal of Chemical Physics, 2000, 112, 8779-8784.	3.0	180
24	Improved method of calculating group polarization effects: constants ??. Journal of Physical Organic Chemistry, 1998, 11, 485-488.	1.9	12
25	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
26	Bk approximation applied to CI-SDTQ. Molecular Physics, 1996, 88, 1137-1142.	1.7	8
27	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
28	Cubic-grid Gaussian basis sets for electron scattering calculations. II. Matrix elements. International Journal of Quantum Chemistry, 1995, 53, 431-436.	2.0	5
29	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