Stephen T Elbert

List of Publications by Year
in descending order

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30 papers	21,023 citations	430874 18 h-index	552781 26 g-index
32 all docs	32 docs citations	32 times ranked	14710 citing authors

#	Article	IF	Citations
1	Trends in Homolytic Bond Dissociation Energies of Five- and Six-Coordinate Hydrides of Group 9 Transition Metals: Co, Rh, Ir. Journal of Physical Chemistry A, 2017, 121, 1993-2000.	2.5	2
2	On the configuration of the US Western Interconnection voltage stability boundary. , 2014, , .		3
3	GridPACK: A Framework for Developing Power Grid Simulations on High Performance Computing Platforms. , 2014, , .		9
4	The GridPACK#8482; toolkit for developing power grid simulations on high performance computing platforms. , 2013, , .		1
5	Advanced computational methods for security constrained financial Transmission Rights. , 2012, , .		5
6	Advanced Computational Methods for Security Constrained Financial Transmission Rights: Structure and Parallelism. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 506-511.	0.4	0
7	Analysis of Bonding Patterns in the Valence Isoelectronic Series O₃, S₃, SO₂, and OS₂in Terms of Oriented Quasi-Atomic Molecular Orbitals^{â€}. Journal of Physical Chemistry A, 2010, 114, 8923-8931.	2.5	31
8	The Changing Paradigm of Data-Intensive Computing. Computer, 2009, 42, 26-34.	1.1	105
9	Entropia: architecture and performance of an enterprise desktop grid system. Journal of Parallel and Distributed Computing, 2003, 63, 597-610.	4.1	264
10	Achieving non-repudiation of Web based transactions. Journal of Systems and Software, 1999, 48, 165-175.	4.5	3
11	General atomic and molecular electronic structure system. Journal of Computational Chemistry, 1993, 14, 1347-1363.	3.3	19,020
12	Potential energy surfaces of ozone. I. Journal of Chemical Physics, 1991, 94, 8054-8069.	3.0	129
13	The design of a scalable, fixed-time computer benchmark. Journal of Parallel and Distributed Computing, 1991, 12, 388-401.	4.1	29
14	The ring opening of cyclopropylidene to allene: global features of the reaction surface. Theoretica Chimica Acta, 1991, 78, 287-326.	0.8	56
15	The ring opening of cyclopropylidene to allene: key features of the accurate reaction surface. Theoretica Chimica Acta, 1991, 78, 365-395.	0.8	43
16	The potential energy surface of the ground state of carbon dioxide. Chemical Physics Letters, 1990, 166, 39-42.	2.6	13
17	Journal of Chemical Physics, 1990, 93, 7519-7521.	3.0	66
18	Extracting more than a few eigenvectors from a dense real symmetric matrix: Optimal algorithms versus the architectural constraints of the FPS-X64. Theoretica Chimica Acta, 1987, 71, 169-186.	0.8	7

#	Article	IF	Citations
19	Generation of a full active configuration space basis in terms of symmetry- and spin-adapted antisymmetrized orbital products. International Journal of Quantum Chemistry, 1987, 31, 489-505.	2.0	7
20	Ring opening of cyclopropylidenes to allenes: reactions with bifurcating transition regions, free internal motions, steric hindrances, and long-range dipolar interactions. Journal of the American Chemical Society, 1986, 108, 3147-3149.	13.7	43
21	Chemical binding and electron correlation in diatomic molecules as described by the FORS model and the FORS-IACC model. Theoretica Chimica Acta, 1985, 68, 69-86.	0.8	26
22	Are atoms intrinsic to molecular electronic wavefunctions? I. The FORS model. Chemical Physics, 1982, 71, 41-49.	1.9	467
23	Are atoms intrinsic to molecular electronic wavefunctions? III. Analysis of FORS configurations. Chemical Physics, 1982, 71, 65-78.	1.9	163
24	MCSCF optimization through combined use of natural orbitals and the brillouin-levy-berthier theorem. International Journal of Quantum Chemistry, 1979, 16, 1069-1101.	2.0	290
25	All-valence-electron CI calculations on the electronic spectrum of diborane. Chemical Physics, 1975, 11, 25-40.	1.9	20
26	The 1A1 Ï€â†'Ï€* state of formaldehyde. Chemical Physics Letters, 1974, 29, 247-249.	2.6	29
27	Ab initio calculations on urea. International Journal of Quantum Chemistry, 1974, 8, 857-892.	2.0	44
28	Evaluation of electron repulsion integrals over gaussian lobe basis functions. Journal of Computational Physics, 1974, 16, 391-395.	3.8	7
29	A configuration interaction study of the spin dipole-dipole parameters for formaldehyde and methylene. International Journal of Quantum Chemistry, 1973, 7, 999-1019.	2.0	97
30	Selection of Proper Canonical Orbitals. II. Water. Journal of Chemical Physics, 1972, 57, 2005-2008.	3.0	39