

Gergely Gidofalvi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11159645/publications.pdf>

Version: 2024-02-01

32
papers

2,017
citations

471509

17
h-index

414414

32
g-index

32
all docs

32
docs citations

32
times ranked

1527
citing authors

#	ARTICLE	IF	CITATIONS
1	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. <i>Journal of Chemical Physics</i> , 2021, 155, 084801.	3.0	518
2	Representations of Shavitt Graphs Within the Graphical Unitary Group Approach. <i>Journal of Computational Chemistry</i> , 2020, 41, 129-135.	3.3	5
3	The generality of the GLUGA MRCI approach in COLUMBUS for treating complex quantum chemistry. <i>Journal of Chemical Physics</i> , 2020, 152, 134110.	3.0	42
4	Heterogeneous CPU + GPU Algorithm for Variational Two-Electron Reduced-Density Matrix-Driven Complete Active-Space Self-Consistent Field Theory. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6164-6178.	5.3	27
5	Analytic Energy Gradients for Variational Two-Electron Reduced-Density Matrix Methods within the Density Fitting Approximation. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 276-289.	5.3	17
6	Analytic Energy Gradients for Variational Two-Electron Reduced-Density-Matrix-Driven Complete Active Space Self-Consistent Field Theory. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4113-4122.	5.3	14
7	Large-Scale Variational Two-Electron Reduced-Density-Matrix-Driven Complete Active Space Self-Consistent Field Methods. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2260-2271.	5.3	111
8	The Representation and Parametrization of Orthogonal Matrices. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7924-7939.	2.5	15
9	The multifacet graphically contracted function method. II. A general procedure for the parameterization of orthogonal matrices and its application to arc factors. <i>Journal of Chemical Physics</i> , 2014, 141, 064106.	3.0	13
10	Molecule-Optimized Basis Sets and Hamiltonians for Accelerated Electronic Structure Calculations of Atoms and Molecules. <i>Journal of Physical Chemistry A</i> , 2014, 118, 495-502.	2.5	2
11	Wave function analysis with Shavitt graph density in the graphically contracted function method. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	1.4	11
12	The multifacet graphically contracted function method. I. Formulation and implementation. <i>Journal of Chemical Physics</i> , 2014, 141, 064105.	3.0	29
13	Multiconfiguration Self-Consistent Field and Multireference Configuration Interaction Methods and Applications. <i>Chemical Reviews</i> , 2012, 112, 108-181.	47.7	559
14	Strong Correlation in Acene Sheets from the Active-Space Variational Two-Electron Reduced Density Matrix Method: Effects of Symmetry and Size. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5632-5640.	2.5	91
15	An efficient recursive algorithm to compute wave function optimization gradients for the graphically contracted function method. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 2938-2948.	2.0	12
16	Exploiting sparsity in the graphically contracted function configuration interaction method. <i>Molecular Physics</i> , 2010, 108, 2717-2724.	1.7	11
17	Computation of determinant expansion coefficients within the graphically contracted function method. <i>Journal of Computational Chemistry</i> , 2009, 30, 2414-2419.	3.3	17
18	The evaluation of spin-density matrices within the graphically contracted function method. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 3552-3563.	2.0	17

#	ARTICLE	IF	CITATIONS
19	Direct calculation of excited-state electronic energies and two-electron reduced density matrices from the anti-Hermitian contracted Schrödinger equation. <i>Physical Review A</i> , 2009, 80, .	2.5	41
20	Active-space two-electron reduced-density-matrix method: Complete active-space calculations without diagonalization of the N-electron Hamiltonian. <i>Journal of Chemical Physics</i> , 2008, 129, 134108.	3.0	161
21	Molecular properties from variational reduced-density-matrix theory with three-particle N-representability conditions. <i>Journal of Chemical Physics</i> , 2007, 126, 024105.	3.0	42
22	Multireference self-consistent-field energies without the many-electron wave function through a variational low-rank two-electron reduced-density-matrix method. <i>Journal of Chemical Physics</i> , 2007, 127, 244105.	3.0	20
23	Computation of quantum phase transitions by reduced-density-matrix mechanics. <i>Physical Review A</i> , 2006, 74, .	2.5	41
24	Modeling the influence of a laser pulse on the potential energy surface in optimal molecular control theory. <i>Journal of Chemical Physics</i> , 2006, 124, 234103.	3.0	5
25	Variational Reduced-Density-Matrix Theory Applied to the Potential Energy Surfaces of Carbon Monoxide in the Presence of Electric Fields. <i>Journal of Physical Chemistry A</i> , 2006, 110, 5481-5486.	2.5	16
26	Computation of dipole, quadrupole, and octupole surfaces from the variational two-electron reduced density matrix method. <i>Journal of Chemical Physics</i> , 2006, 125, 144102.	3.0	15
27	Application of variational reduced-density-matrix theory to the potential energy surfaces of the nitrogen and carbon dimers. <i>Journal of Chemical Physics</i> , 2005, 122, 194104.	3.0	31
28	Application of variational reduced-density-matrix theory to organic molecules. <i>Journal of Chemical Physics</i> , 2005, 122, 094107.	3.0	27
29	Spin and symmetry adaptation of the variational two-electron reduced-density-matrix method. <i>Physical Review A</i> , 2005, 72, .	2.5	59
30	Variational reduced-density-matrix theory: strength of Hamiltonian-dependent positivity conditions. <i>Chemical Physics Letters</i> , 2004, 398, 434-439.	2.6	8
31	Boson correlation energies via variational minimization with the two-particle reduced density matrix: Exact N-representability conditions for harmonic interactions. <i>Physical Review A</i> , 2004, 69, .	2.5	35
32	Entropy Loss of Hydroxyl Groups of Balanol upon Binding to Protein Kinase A. <i>Journal of Chemical Education</i> , 2002, 79, 1122.	2.3	5