

Federico Zahariev

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3938941/publications.pdf>

Version: 2024-02-01

32
papers

1,903
citations

430874

18
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

2536
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined quantum Monte Carlo “effective fragment molecular orbital method: fragmentation across covalent bonds. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 14308-14314.	2.8	2
2	Introducing LibXC into GAMESS (US). <i>Mendeleev Communications</i> , 2021, 31, 302-305.	1.6	2
3	Introducing LibXC into GAMESS (US). <i>Mendeleev Communications</i> , 2021, 31, 302-305.	1.6	0
4	Energy components in spin-density functional theory. <i>Physical Review A</i> , 2021, 104, .	2.5	0
5	Recent developments in the general atomic and molecular electronic structure system. <i>Journal of Chemical Physics</i> , 2020, 152, 154102.	3.0	734
6	Development of a combined quantum monte carlo-effective fragment molecular orbital method. <i>Molecular Physics</i> , 2019, 117, 1532-1540.	1.7	4
7	Density- and spin-density-functional theories through spin-free wave functions. <i>Physical Review A</i> , 2019, 100, .	2.5	3
8	Nodal variational principle for excited states. <i>Physical Review A</i> , 2018, 98, .	2.5	8
9	ParFit: A Python-Based Object-Oriented Program for Fitting Molecular Mechanics Parameters to ab Initio Data. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 391-396.	5.4	21
10	Properties of Augmented Kohn-Sham Potential for Energy as Simple Sum of Orbital Energies. <i>Journal of Physical Chemistry A</i> , 2017, 121, 342-347.	2.5	3
11	Predictive Beyond-Mean-Field Rate Equations for Multisite Lattice Gas Models of Catalytic Surface Reactions: CO Oxidation on Pd(100). <i>Journal of Physical Chemistry C</i> , 2016, 120, 28639-28653.	3.1	17
12	Silanol-Assisted Carbinolamine Formation in an Amine-Functionalized Mesoporous Silica Surface: Theoretical Investigation by Fragmentation Methods. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1660-1669.	2.6	20
13	On augmented Kohn-Sham potential for energy as a simple sum of orbital energies. <i>Molecular Physics</i> , 2016, 114, 1162-1164.	1.7	6
14	Analytic second derivative of the energy for density functional theory based on the three-body fragment molecular orbital method. <i>Journal of Chemical Physics</i> , 2015, 142, 124101.	3.0	12
15	Ultra-fast electron capture by electrosterically-stabilized gold nanoparticles. <i>Nanoscale</i> , 2015, 7, 11545-11551.	5.6	16
16	Combined Fragment Molecular Orbital Cluster in Molecule Approach to Massively Parallel Electron Correlation Calculations for Large Systems.. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3587-3593.	2.5	26
17	Conformations of Organophosphine Oxides. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8765-8773.	2.5	16
18	Nonlinear response time-dependent density functional theory combined with the effective fragment potential method. <i>Journal of Chemical Physics</i> , 2014, 140, 18A523.	3.0	31

#	ARTICLE	IF	CITATIONS
19	Analytic Gradient for Density Functional Theory Based on the Fragment Molecular Orbital Method. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5297-5307.	5.3	32
20	The R^7 Dispersion Interaction in the General Effective Fragment Potential Method. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1576-1587.	5.3	25
21	Dynamics Simulations with Spin-Flip Time-Dependent Density Functional Theory: Photoisomerization and Photocyclization Mechanisms of <i>cis</i> -Stilbene in $\pi\pi^*$ States. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11987-11998.	2.5	84
22	Ground-State Energy as a Simple Sum of Orbital Energies in Kohn-Sham Theory: A Shift in Perspective through a Shift in Potential. <i>Physical Review Letters</i> , 2014, 113, 113002.	7.8	39
23	Functional derivatives of meta-generalized gradient approximation (meta-GGA) type exchange-correlation density functionals. <i>Journal of Chemical Physics</i> , 2013, 138, 244108.	3.0	31
24	Benchmarking the performance of time-dependent density functional methods. <i>Journal of Chemical Physics</i> , 2012, 136, 104101.	3.0	295
25	Solvent-Induced Shift of the Lowest Singlet $\pi\pi^*$ Charge-Transfer Excited State of <i>p</i> -Nitroaniline in Water: An Application of the TDDFT/EFP1 Method. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9801-9809.	2.5	49
26	Modeling Solvent Effects on Electronic Excited States. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2184-2192.	4.6	107
27	Implementation of the analytic energy gradient for the combined time-dependent density functional theory/effective fragment potential method: Application to excited-state molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2011, 134, 054111.	3.0	36
28	A Paradigm for Blue- or Red-Shifted Absorption of Small Molecules Depending on the Site of π -Extension. <i>Journal of the American Chemical Society</i> , 2010, 132, 16247-16255.	13.7	96
29	Solvent effects on optical properties of molecules: A combined time-dependent density functional theory/effective fragment potential approach. <i>Journal of Chemical Physics</i> , 2008, 129, 144112.	3.0	91
30	Elucidating the Nature of the <i>Streptomyces plicatus</i> β -Hexosaminidase-Bound Intermediate Using <i>ab initio</i> Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2008, 130, 17620-17628.	13.7	35
31	Systematic Method to New Phases of Polymeric Nitrogen under High Pressure. <i>Physical Review Letters</i> , 2006, 97, 155503.	7.8	59
32	Strutinsky's shell-correction method in the extended Kohn-Sham scheme for the investigation of binding energies of atoms and cations in the ground state. <i>International Journal of Quantum Chemistry</i> , 2004, 99, 265-276.	2.0	3