

UÄur Bozkaya

List of Publications by Year in descending order

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218677

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74
times ranked

2811
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient and regioselective synthesis of dihydroxy-substituted 2-aminocyclooctane-1-carboxylic acid and its bicyclic derivatives. Beilstein Journal of Organic Chemistry, 2022, 18, 77-85.	2.2	2
2	Molpro QC 1.0: An electronic structure theory software for large-scale applications. Journal of Chemical Physics, 2022, 156, 044801.	3.0	3
3	Efficient Implementation of Equation-of-Motion Coupled-Cluster Singles and Doubles Method with the Density-Fitting Approximation: An Enhanced Algorithm for the Particle-Particle Ladder Term. Journal of Chemical Theory and Computation, 2022, 18, 1489-1500.	5.3	3
4	Regio- and stereo-chemical ring-opening reactions of the 2,3-epoxy alcohol derivative with nucleophiles: Explanation of the structures and C-2 selectivity supported by theoretical computations. Journal of Molecular Structure, 2022, 1264, 133163.	3.6	2
5	Anharmonic force field from coupled-cluster methods and accurate computation of infrared spectra. Advances in Quantum Chemistry, 2021, 83, 139-153.	0.8	2
6	Molint 1.0: A framework for the computation of molecular integrals and their derivatives for density-fitted methods. International Journal of Quantum Chemistry, 2021, 121, e26623.	2.0	2
7	Efficient implementations of the symmetric and asymmetric triple excitation corrections for the orbital-optimized coupled-cluster doubles method with the density-fitting approximation. Journal of Chemical Physics, 2021, 155, 114104.	3.0	5
8	A computational study of the reaction mechanism of 2,2-azobis(isobutyronitrile)-initiated oxidative cleavage of geminal alkenes. Organic and Biomolecular Chemistry, 2021, 19, 9483-9490.	2.8	0
9	State-Of-The-Art Computations of Vertical Electron Affinities with the Extended Koopmans's Theorem Integrated with the CCSD(T) Method. Journal of Chemical Theory and Computation, 2021, 17, 7648-7656.	5.3	4
10	State-of-the-art computations of dipole moments using analytic gradients of high-level density-fitted coupled-cluster methods with focal-point approximations. Journal of Computational Chemistry, 2020, 41, 769-779.	3.3	5
11	Ionized water clusters, $n = 2$ to 6: A high-accuracy study of structures and energetics. International Journal of Quantum Chemistry, 2020, 120, e26100.	2.0	5
12	Computational Study for the Reaction Mechanism of <i>N</i> -Hydroxyphthalimide-Catalyzed Oxidative Cleavage of Alkenes. Journal of Organic Chemistry, 2020, 85, 10136-10142.	3.2	5
13	Polarization-Enhanced Hydrogen Bonding in 1,8-Dihydroxynaphthalene: Conformational Analysis, Binding Studies and Hydrogen Bonding Catalysis. ChemistrySelect, 2020, 5, 13387-13396.	1.5	5
14	Assessment of the Density-Fitted Second-Order Quasidegenerate Perturbation Theory for Transition Energies: Accurate Computations of Singlet-Triplet Gaps for Charge-Transfer Compounds. Journal of Physical Chemistry A, 2020, 124, 6889-6898.	2.5	5
15	Psi4 1.4: Open-source software for high-throughput quantum chemistry. Journal of Chemical Physics, 2020, 152, 184108.	3.0	440
16	Efficient and automated computation of accurate molecular geometries using focal-point approximations to large-basis coupled-cluster theory. Journal of Chemical Physics, 2020, 152, 124109.	3.0	15
17	Conformational Characterization of Polyelectrolyte Oligomers and Their Noncovalent Complexes Using Ion Mobility-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 441-449.	2.8	5
18	Energy and analytic gradients for the orbital-optimized coupled-cluster doubles method with the density-fitting approximation: An efficient implementation. Journal of Chemical Physics, 2020, 153, 244115.	3.0	12

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19	Efficient Implementation of the Second-Order Quasidegenerate Perturbation Theory with Density-Fitting and Cholesky Decomposition Approximations: Is It Possible To Use Hartree-Fock Orbitals for a Multiconfigurational Perturbation Theory?. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4415-4429.	5.3	13
20	An anomalous addition of chlorosulfonyl isocyanate to a carbonyl group: the synthesis of ((3a <i>S</i> ,7a <i>R</i> , <i>E</i>)-2-ethyl-3-oxo-2,3,3a,4,7,7a-hexahydro-1 <i>H</i> -isoindol-1-ylidene)sulfamoyl chloride. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 931-936.	2.2	2
21	Aza-Nazarov Cyclization Reactions via Anion Exchange Catalysis. <i>Organic Letters</i> , 2019, 21, 554-558.	4.6	11
22	State-of-the-Art Computations of Vertical Ionization Potentials with the Extended Koopmans' Theorem Integrated with the CCSD(T) Method. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4375-4380.	2.5	13
23	Analytic energy gradients for orbital-optimized MP3 and MP2.5 with the density-fitting approximation: An efficient implementation. <i>Journal of Computational Chemistry</i> , 2018, 39, 351-360.	3.3	18
24	Anionic water pentamer and hexamer clusters: An extensive study of structures and energetics. <i>Journal of Chemical Physics</i> , 2018, 148, 124307.	3.0	9
25	psi4 1.1: An Open-Source Electronic Structure Program Emphasizing Automation, Advanced Libraries, and Interoperability. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3185-3197.	5.3	961
26	Dihydropyridazine-appended dibenzosuberones as a new class of fluorophores: Application to fluoride sensing. <i>Tetrahedron Letters</i> , 2017, 58, 2981-2985.	1.4	14
27	Transition Metal Cation- π Interactions: Complexes Formed by Fe ²⁺ , Co ²⁺ , Ni ²⁺ , Cu ²⁺ , and Zn ²⁺ Binding with Benzene Molecules. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6500-6509.	2.5	36
28	Analytic energy gradients for the coupled-cluster singles and doubles with perturbative triples method with the density-fitting approximation. <i>Journal of Chemical Physics</i> , 2017, 147, 044104.	3.0	34
29	A rare \hat{I}^3 -pyranopyrazole skeleton: design, one-pot synthesis and computational study. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7490-7494.	2.8	3
30	A noniterative asymmetric triple excitation correction for the density-fitted coupled-cluster singles and doubles method: Preliminary applications. <i>Journal of Chemical Physics</i> , 2016, 144, 144108.	3.0	15
31	Analytic energy gradients for the coupled-cluster singles and doubles method with the density-fitting approximation. <i>Journal of Chemical Physics</i> , 2016, 144, 174103.	3.0	32
32	Assessment of the extended Koopmans' theorem for the chemical reactivity: Accurate computations of chemical potentials, chemical hardnesses, and electrophilicity indices. <i>Journal of Computational Chemistry</i> , 2016, 37, 345-353.	3.3	20
33	Charge-Transfer Complex of <i>p</i> -Aminodiphenylamine with Maleic Anhydride: Spectroscopic, Electrochemical, and Physical Properties. <i>ChemPhysChem</i> , 2016, 17, 2056-2065.	2.1	4
34	Orbital-optimized linearized coupled-cluster doubles with density-fitting and Cholesky decomposition approximations: an efficient implementation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11362-11373.	2.8	30
35	Orbital-Optimized MP3 and MP2.5 with Density-Fitting and Cholesky Decomposition Approximations. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1179-1188.	5.3	40
36	Assessment of Orbital-Optimized MP2.5 for Thermochemistry and Kinetics: Dramatic Failures of Standard Perturbation Theory Approaches for Aromatic Bond Dissociation Energies and Barrier Heights of Radical Reactions. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 1564-1573.	5.3	28

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37	Derivation of general analytic gradient expressions for density-fitted post-Hartree-Fock methods: An efficient implementation for the density-fitted second-order MllerPlesset perturbation theory. <i>Journal of Chemical Physics</i> , 2014, 141, 124108.	3.0	41
38	Assessment of the orbitaloptimized coupledelectron pair theory for thermochemistry and kinetics: Improving on CCSD and CEPA(1). <i>Journal of Computational Chemistry</i> , 2014, 35, 1073-1081.	3.3	18
39	Orbital-optimized MP2.5 and its analytic gradients: Approaching CCSD(T) quality for noncovalent interactions. <i>Journal of Chemical Physics</i> , 2014, 141, 204105.	3.0	32
40	Orbital-Optimized Second-Order Perturbation Theory with Density-Fitting and Cholesky Decomposition Approximations: An Efficient Implementation. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2371-2378.	5.3	58
41	Analytic Energy Gradients and Spin Multiplicities for Orbital-Optimized Second-Order Perturbation Theory with Density-Fitting Approximation: An Efficient Implementation. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4389-4399.	5.3	34
42	Accurate Electron Affinities from the Extended Koopmans™ Theorem Based on Orbital-Optimized Methods. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2041-2048.	5.3	31
43	Novel phenomena for aggregation induced emission enhancement: highly fluorescent hydrophobic TPE-BODIPY couples in both organic and aqueous media. <i>RSC Advances</i> , 2013, 3, 15866.	3.6	44
44	Accurate Open-Shell Noncovalent Interaction Energies from the Orbital-Optimized MllerPlesset Perturbation Theory: Achieving CCSD Quality at the MP2 Level by Orbital Optimization. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4679-4683.	5.3	28
45	Orbital-optimized coupled-electron pair theory and its analytic gradients: Accurate equilibrium geometries, harmonic vibrational frequencies, and hydrogen transfer reactions. <i>Journal of Chemical Physics</i> , 2013, 139, 054104.	3.0	48
46	Analytic energy gradients for the orbital-optimized second-order MllerPlesset perturbation theory. <i>Journal of Chemical Physics</i> , 2013, 138, 184103.	3.0	48
47	Assessment of Orbital-Optimized Third-Order MllerPlesset Perturbation Theory and Its Spin-Component and Spin-Opposite Scaled Variants for Thermochemistry and Kinetics. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1452-1460.	5.3	33
48	The extended Koopmans' theorem for orbital-optimized methods: Accurate computation of ionization potentials. <i>Journal of Chemical Physics</i> , 2013, 139, 154105.	3.0	38
49	Analytic energy gradients for the orbital-optimized third-order MllerPlesset perturbation theory. <i>Journal of Chemical Physics</i> , 2013, 139, 104116.	3.0	29
50	The lowest-lying electronic singlet and triplet potential energy surfaces for the HNONOH system: Energetics, unimolecular rate constants, tunneling and kinetic isotope effects for the isomerization and dissociation reactions. <i>Journal of Chemical Physics</i> , 2012, 136, 164303.	3.0	28
51	Theoretical Study of Thermal Rearrangements of 1-Hexen-5-yne, 1,2,5-Hexatriene, and 2-Methylenebicyclo[2.1.0]pentane. <i>Journal of Organic Chemistry</i> , 2012, 77, 2337-2344.	3.2	14
52	Dihydroxylation of olefins catalyzed by zeolite-confined osmium(0) nanoclusters: an efficient and reusable method for the preparation of 1,2-cis-diols. <i>Green Chemistry</i> , 2012, 14, 1488.	9.0	27
53	Thermal denitrogenation of 7-isopropylidene-2,3-diaza-norbornene: formation of substituted 3-methylene-(1,4)-pentadienes. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14282.	2.8	8
54	Symmetric and asymmetric triple excitation corrections for the orbital-optimized coupled-cluster doubles method: Improving upon CCSD(T) and CCSD(T): Preliminary application. <i>Journal of Chemical Physics</i> , 2012, 136, 204114.	3.0	52

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55	Thermal Aromatizations of 2-Vinylmethylenecyclopropane and 3-Vinylcyclobutene. <i>Journal of Organic Chemistry</i> , 2012, 77, 5714-5723.	3.2	10
56	Thermal Rearrangements of 1-Ethynyl-2-methylcyclopropane: A Computational Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3274-3281.	2.5	11
57	Potential Energy Surfaces for Rearrangements of Berson Trimethylenemethanes. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2309-2321.	2.5	15
58	Quadratically convergent algorithm for orbital optimization in the orbital-optimized coupled-cluster doubles method and in orbital-optimized second-order MÄller-Plesset perturbation theory. <i>Journal of Chemical Physics</i> , 2011, 135, 104103.	3.0	104
59	Orbital-optimized third-order MÄller-Plesset perturbation theory and its spin-component and spin-opposite scaled variants: Application to symmetry breaking problems. <i>Journal of Chemical Physics</i> , 2011, 135, 224103.	3.0	52
60	The ten chemically transparent dinitronaphthalene isomers and their radical anions. <i>Molecular Physics</i> , 2010, 108, 2491-2509.	1.7	4
61	The barrier height, unimolecular rate constant, and lifetime for the dissociation of HN2. <i>Journal of Chemical Physics</i> , 2010, 132, 064308.	3.0	35
62	Network structure and swelling behavior of poly(acrylamide/crotonic acid) hydrogels in aqueous salt solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 1656-1664.	2.1	43