

Masahiro Ehara

List of Publications by Year in descending order

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264
papers

6,432
citations

71061

41
h-index

123376

61
g-index

278
all docs

278
docs citations

278
times ranked

5717
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational calculations of fermion second-order reduced density matrices by semidefinite programming algorithm. <i>Journal of Chemical Physics</i> , 2001, 114, 8282-8292.	1.2	239
2	Double-core-hole spectroscopy for chemical analysis with an intense X-ray femtosecond laser. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16912-16915.	3.3	165
3	D π -A-Type Organic Dyes for Dye-Sensitized Solar Cells with a Potential for Direct Electron Injection and a High Extinction Coefficient: Synthesis, Characterization, and Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25653-25663.	1.5	153
4	Low-Temperature Carbon-Chlorine Bond Activation by Bimetallic Gold/Palladium Alloy Nanoclusters: An Application to Ullmann Coupling. <i>Journal of the American Chemical Society</i> , 2012, 134, 20250-20253.	6.6	133
5	Vibrationally resolved O 1s photoelectron spectrum of water. <i>Chemical Physics Letters</i> , 2003, 380, 647-653.	1.2	119
6	Exploring excited states using Time Dependent Density Functional Theory and density-based indexes. <i>Coordination Chemistry Reviews</i> , 2015, 304-305, 166-178.	9.5	118
7	Molecular double core hole electron spectroscopy for chemical analysis. <i>Journal of Chemical Physics</i> , 2010, 132, .	1.2	111
8	Light-driven molecular switch for reconfigurable spin filters. <i>Nature Communications</i> , 2019, 10, 2455.	5.8	109
9	Double Core Hole Creation and Subsequent Auger Decay in NH_3 and CH_4 Molecules. <i>Physical Review Letters</i> , 2010, 105, 213005.	2.9	105
10	Electronic excitation spectra of furan and pyrrole: Revisited by the symmetry adapted cluster-configuration interaction method. <i>Journal of Chemical Physics</i> , 2000, 113, 7853-7866.	1.2	88
11	Electronic excitations of the green fluorescent protein chromophore in its protonation states: SAC/SAC-CI study. <i>Journal of Computational Chemistry</i> , 2003, 24, 1421-1431.	1.5	83
12	Density matrix variational theory: Application to the potential energy surfaces and strongly correlated systems. <i>Journal of Chemical Physics</i> , 2002, 116, 5432-5439.	1.2	79
13	A Theoretical Investigation on CO Oxidation by Single-Atom Catalysts M_3O ($\text{M}=\text{Pd, Fe, Co, and Ni}$). <i>ChemCatChem</i> , 2017, 9, 1222-1229. ^{1.8}		76
14	Symmetry-adapted cluster and symmetry-adapted cluster-configuration interaction method in the polarizable continuum model: Theory of the solvent effect on the electronic excitation of molecules in solution. <i>Journal of Chemical Physics</i> , 2010, 133, 024104.	1.2	71
15	Outer- and inner-valence ionization spectra of N_2 and CO . <i>Chemical Physics Letters</i> , 1998, 282, 347-354.	1.2	65
16	Multiconfiguration time-dependent Hartree (MCTDH) study on rotational and diffractive inelastic molecule-surface scattering. <i>Journal of Chemical Physics</i> , 1996, 105, 8865-8877.	1.2	61
17	Excited and Ionized States of p-Benzoquinone and Its Anion Radical: SAC-CI Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3838-3849.	1.1	61
18	CAP/SAC-CI method for calculating resonance states of metastable anions. <i>Chemical Physics Letters</i> , 2012, 537, 107-112.	1.2	59

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19	Symmetry-dependent vibrational excitation in N 1s photoionization of N ₂ : Experiment and theory. <i>Journal of Chemical Physics</i> , 2006, 124, 124311.	1.2	57
20	Excited-State Geometries of Heteroaromatic Compounds: A Comparative TD-DFT and SAC-CI Study. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2368-2379.	2.3	57
21	Cluster modeling of metal oxides: how to cut out a cluster?. <i>Chemical Physics Letters</i> , 1998, 291, 445-452.	1.2	54
22	Singly and doubly excited states of butadiene, acrolein, and glyoxal: Geometries and electronic spectra. <i>Journal of Chemical Physics</i> , 2006, 125, 014316.	1.2	54
23	Lewis Acid Catalysis of Nb ₂ O ₅ for Reactions of Carboxylic Acid Derivatives in the Presence of Basic Inhibitors. <i>ChemCatChem</i> , 2019, 11, 383-396.	1.8	53
24	Excited and ionized states of aniline: Symmetry adapted cluster configuration interaction theoretical study. <i>Journal of Chemical Physics</i> , 2002, 117, 2045-2052.	1.2	52
25	Nonequilibrium solvation for vertical photoemission and photoabsorption processes using the symmetry-adapted cluster configuration interaction method in the polarizable continuum model. <i>Journal of Chemical Physics</i> , 2011, 134, 104109.	1.2	51
26	Elucidating Electronic Transitions from ĩf Orbitals of Liquid <i>n</i> - and Branched Alkanes by Far-Ultraviolet Spectroscopy and Quantum Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11957-11964.	1.1	51
27	Theoretical fine spectroscopy with symmetry adapted cluster configuration interaction general-R method: First-row K-shell ionizations and their satellites. <i>Journal of Chemical Physics</i> , 2005, 122, 014304.	1.2	50
28	Direct oxidation of methane to methanol on FeO modified graphene. <i>RSC Advances</i> , 2014, 4, 12572-12578.	1.7	50
29	Electronic excitation spectrum of thiophene studied by symmetry-adapted cluster configuration interaction method. <i>Journal of Chemical Physics</i> , 2001, 114, 842.	1.2	49
30	Theoretical study on the excited and ionized states of titanium tetrachloride. <i>Journal of Chemical Physics</i> , 1992, 97, 2561-2570.	1.2	47
31	Theoretical fine spectroscopy with symmetry-adapted-cluster configuration-interaction method: Outer- and inner-valence ionization spectra of furan, pyrrole, and thiophene. <i>Journal of Chemical Physics</i> , 2005, 122, 234319.	1.2	47
32	A Mechanism for the Palladium-Catalyzed Regioselective Silaboration of Allene: A Theoretical Study. <i>Organometallics</i> , 2008, 27, 1736-1742.	1.1	47
33	Electronic excitation and ionization spectra of azabenzene: Pyridine revisited by the symmetry-adapted cluster configuration interaction method. <i>Journal of Chemical Physics</i> , 2001, 114, 5117-5123.	1.2	46
34	Active-space symmetry-adapted-cluster configuration-interaction and equation-of-motion coupled-cluster methods for high accuracy calculations of potential energy surfaces of radicals. <i>Journal of Chemical Physics</i> , 2007, 126, 164111.	1.2	45
35	Nickel-catalyzed coupling reaction of alkyl halides with aryl Grignard reagents in the presence of 1,3-butadiene: mechanistic studies of four-component coupling and competing cross-coupling reactions. <i>Chemical Science</i> , 2018, 9, 2195-2211.	3.7	45
36	Symmetry adapted cluster configuration interaction study on the excited and ionized states of TiBr ₄ and TiI ₄ . <i>Journal of Chemical Physics</i> , 1994, 101, 7658-7671.	1.2	44

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37	Theoretical study on the outer- and inner-valence ionization spectra of H ₂ O, H ₂ S and H ₂ Se using the SAC-CI general-R method. <i>Journal of Chemical Physics</i> , 2001, 114, 8990-8999.	1.2	44
38	Double core-hole electron spectroscopy for open-shell molecules: Theoretical perspective. <i>Chemical Physics Letters</i> , 2010, 496, 217-222.	1.2	44
39	Metal-Porphyrin: A Potential Catalyst for Direct Decomposition of N ₂ O by Theoretical Reaction Mechanism Investigation. <i>Environmental Science & Technology</i> , 2014, 48, 7101-7110.	4.6	44
40	Symmetry-adapted cluster-configuration interaction method applied to high-spin multiplicity. <i>Journal of Chemical Physics</i> , 1993, 98, 7179-7184.	1.2	43
41	Complex Absorbing Potentials with Voronoi Isosurfaces Wrapping Perfectly around Molecules. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4627-4633.	2.3	43
42	Vibrationally resolved C and O 1s photoelectron spectra of carbon dioxide. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 155, 54-57.	0.8	41
43	Electronic transitions in liquid amides studied by using attenuated total reflection far-ultraviolet spectroscopy and quantum chemical calculations. <i>Journal of Chemical Physics</i> , 2013, 139, 154301.	1.2	41
44	Aerobic oxidation of methanol to formic acid on Au ₂₀ : a theoretical study on the reaction mechanism. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3103.	1.3	40
45	C-Cl Bond Activation on Au/Pd Bimetallic Nanocatalysts Studied by Density Functional Theory and Genetic Algorithm Calculations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22188-22196.	1.5	39
46	Photoisomerization and Proton-Coupled Electron Transfer (PCET) Promoted Water Oxidation by Mononuclear Cyclometalated Ruthenium Catalysts. <i>Inorganic Chemistry</i> , 2012, 51, 5386-5392.	1.9	38
47	(2 + 2) Cycloaddition of Benzyne to Endohedral Metallofullerenes M ₃ N@C ₈₀ (M = Sc, Y): A Rotating-Intermediate Mechanism. <i>Journal of the American Chemical Society</i> , 2015, 137, 6820-6828.	6.6	38
48	Methane activation on Fe- and FeO-embedded graphene and boron nitride sheet: role of atomic defects in catalytic activities. <i>RSC Advances</i> , 2015, 5, 97918-97927.	1.7	38
49	Analytical energy gradients of the excited, ionized and electron-attached states calculated by the SAC-CI general-R method. <i>Chemical Physics Letters</i> , 2001, 347, 493-498.	1.2	37
50	Structure of the exact wave function. V. Iterative configuration interaction method for molecular systems within finite basis. <i>Journal of Chemical Physics</i> , 2002, 117, 9-12.	1.2	37
51	Iterative CI general singles and doubles (ICIGSD) method for calculating the exact wave functions of the ground and excited states of molecules. <i>Journal of Chemical Physics</i> , 2005, 122, 194108.	1.2	37
52	Excited states and electronic spectra of extended tetraazaporphyrins. <i>Journal of Chemical Physics</i> , 2010, 133, 144316.	1.2	37
53	Rydberg and π^* Transitions in Film Surfaces of Various Kinds of Nylons Studied by Attenuated Total Reflection Far-Ultraviolet Spectroscopy and Quantum Chemical Calculations: Peak Shifts in the Spectra and Their Relation to Nylon Structure and Hydrogen Bondings. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11855-11861.	1.2	37
54	Enantioseparation and chiral induction in Ag ₂₉ nanoclusters with intrinsic chirality. <i>Chemical Science</i> , 2020, 11, 2394-2400.	3.7	37

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55	Experimental and theoretical study on the excited-state dynamics of ortho-, meta-, and para-methoxy methylcinnamate. <i>Journal of Chemical Physics</i> , 2014, 141, 244313.	1.2	36
56	Benchmark Study on the Triplet Excited-State Geometries and Phosphorescence Energies of Heterocyclic Compounds: Comparison Between TD-PBE0 and SAC-CI. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3969-3979.	2.3	36
57	Low-Lying $\tilde{\pi}^*$ Resonances of Standard and Rare DNA and RNA Bases Studied by the Projected CAP/SAC-CI Method. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1545-1553.	1.1	36
58	Catalysis of Cu Cluster for NO Reduction by CO: Theoretical Insight into the Reaction Mechanism. <i>ACS Omega</i> , 2019, 4, 2596-2609.	1.6	36
59	Analytical energy gradient of the symmetry-adapted-cluster configuration-interaction general-R method for singlet to septet ground and excited states. <i>Journal of Chemical Physics</i> , 2004, 120, 2593-2605.	1.2	34
60	Synthesis and Optical Properties of Excited-State Intramolecular Proton Transfer Active π -Conjugated Benzimidazole Compounds: Influence of Structural Rigidification by Ring Fusion. <i>Journal of Organic Chemistry</i> , 2017, 82, 12173-12180.	1.7	34
61	Electronic excitation and ionization spectra of cyclopentadiene: Revisit by the symmetry-adapted cluster configuration interaction method. <i>Journal of Chemical Physics</i> , 2000, 113, 5245.	1.2	33
62	SAC-CI GENERAL-R METHOD: THEORY AND APPLICATIONS TO THE MULTI-ELECTRON PROCESSES. , 2002, , 293-319.		33
63	Peralkylated Tetrasilanes: Conformational Dependence of the Photoelectron Spectrum. <i>Journal of Physical Chemistry A</i> , 2002, 106, 2369-2373.	1.1	33
64	Multistep Intersystem Crossing Pathways in Cinnamate-Based UV-B Sunscreens. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4001-4007.	2.1	33
65	Direct determination of second-order density matrix using density equation: Open-shell system and excited state. <i>Journal of Chemical Physics</i> , 2000, 112, 8772-8778.	1.2	32
66	Fine theoretical spectroscopy using symmetry adapted cluster-configuration interaction general-R method: Outer- and inner-valence ionization spectra of CS ₂ and OCS. <i>Journal of Chemical Physics</i> , 2002, 117, 3248-3255.	1.2	32
67	Singularity-free analytical energy gradients for the SAC/SAC-CI method: coupled perturbed minimum orbital-deformation (CPMOD) approach. <i>Chemical Physics Letters</i> , 2003, 367, 730-736.	1.2	32
68	SAC-CI theoretical investigation on electronic structure of fluorene-thiophene oligomers. <i>Polymer</i> , 2005, 46, 6474-6481.	1.8	32
69	Theoretical Molecular Double-Core-Hole Spectroscopy of Nucleobases. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12070-12082.	1.1	32
70	Cooperative H ₂ Activation at Ag Cluster $\sqrt{3}\times\sqrt{3}$ -Al ₂ O ₃ (110) Dual Perimeter Sites: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7996-8006.	1.5	31
71	Modeling Molecular Systems at Extreme Pressure by an Extension of the Polarizable Continuum Model (PCM) Based on the Symmetry-Adapted Cluster-Configuration Interaction (SAC-CI) Method: Confined Electronic Excited States of Furan as a Test Case. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2063-2076.	2.3	31
72	Potential molecular semiconductor devices: cyclo-C _n ($n = 10$ and 14) with higher stabilities and aromaticities than acknowledged cyclo-C ₁₈ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4823-4831.	1.3	31

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73	Investigation of the Electronic Spectra and Excited-State Geometries of Poly(para-phenylene vinylene) (PPV) and Poly(para-phenylene) (PP) by the Symmetry-Adapted Cluster Configuration Interaction (SAC-CI) Method. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5473-5481.	1.1	30
74	Asymmetric Twisting of <i>C</i> -Centered Octahedral Gold(I) Clusters by Chiral <i>N</i> -Heterocyclic Carbene Ligation. <i>Journal of the American Chemical Society</i> , 2022, 144, 2156-2163.	6.6	30
75	Warning to Theoretical Structure Elucidation of Endohedral Metallofullerenes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1275-1283.	1.5	29
76	Preferential Photoreaction in a Porous Crystal, Metal-Macrocycle Framework: Pd ^{II} -Mediated Olefin Migration over [2+2] Cycloaddition. <i>Journal of the American Chemical Society</i> , 2018, 140, 16610-16614.	6.6	29
77	Double core-hole correlation satellite spectra of N ₂ and CO molecules. <i>Chemical Physics Letters</i> , 2012, 521, 45-51.	1.2	28
78	Photophysical properties and photochemistry of substituted cinnamates and cinnamic acids for UVB blocking: effect of hydroxy, nitro, and fluoro substitutions at ortho, meta, and para positions. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 583-594.	1.6	28
79	Short-range stabilizing potential for computing energies and lifetimes of temporary anions with extrapolation methods. <i>Journal of Chemical Physics</i> , 2015, 142, 034105.	1.2	28
80	Origin of Nb ₂ O ₅ Lewis Acid Catalysis for Activation of Carboxylic Acids in the Presence of a Hard Base. <i>ChemPhysChem</i> , 2018, 19, 2848-2857.	1.0	28
81	Theoretical spectroscopy on K ² , K ^{1L} , and L ² double core hole states of SiX ₄ (X=H, F, Cl, and CH ₃) molecules. <i>Chemical Physics</i> , 2011, 384, 28-35.	0.9	27
82	Chemically intuitive indices for charge-transfer excitation based on SAC-CI and TD-DFT calculations. <i>Journal of Computational Chemistry</i> , 2013, 34, 2498-2501.	1.5	27
83	Mechanism of the Aerobic Homocoupling of Phenylboronic Acid on Au ₂₀ ⁺ : A DFT Study. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2397-2403.	1.7	27
84	ESIPT emission behavior of methoxy-substituted 2-hydroxyphenylbenzimidazole isomers. <i>New Journal of Chemistry</i> , 2018, 42, 5923-5928.	1.4	27
85	Deep learning enabled inorganic material generator. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26935-26943.	1.3	27
86	Absorption and emission spectra of ultraviolet B blocking methoxy substituted cinnamates investigated using the symmetry-adapted cluster configuration interaction method. <i>Journal of Chemical Physics</i> , 2009, 131, 224306.	1.2	26
87	Structure, Interaction, and Dynamics of Au/Pd Bimetallic Nanoalloys Dispersed in Aqueous Ethylpyrrolidone, a Monomeric Moiety of Polyvinylpyrrolidone. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17454-17464.	1.5	26
88	High Turnover Frequency CO-NO Reactions over Rh Overlayer Catalysts: A Comparative Study Using Rh Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6080-6089.	1.5	26
89	Theoretical study on ³¹ P NMR chemical shifts of phosphorus-modified CHA zeolites. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109908.	2.2	26
90	Crystallographic Characterization of Er ₂ C ₂ @C ₈₀ ⁸⁸ : Cluster Stretching with Cage Elongation. <i>Inorganic Chemistry</i> , 2020, 59, 1940-1946.	1.9	26

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91	Hyperfine splitting constants studied by the symmetry adapted cluster configuration interaction method. <i>Journal of Chemical Physics</i> , 1994, 100, 5821-5828.	1.2	25
92	Auger decay of molecular double core-hole state. <i>Journal of Chemical Physics</i> , 2011, 135, 154307.	1.2	25
93	Synthesis and Optical Properties of Imidazole- and Benzimidazole-Based Fused π -Conjugated Compounds: Influence of Substituent, Counteranion, and π -Conjugated System. <i>Journal of Organic Chemistry</i> , 2015, 80, 7172-7183.	1.7	25
94	How Can We Understand Au ₈ Cores and Entangled Ligands of Selenolate- and Thiolate-Protected Gold Nanoclusters Au ₂₄ (ER) ₂₀ and Au ₂₀ (ER) ₁₆ (E = Se, S; R = Ph, Me)? A Theoretical Study. <i>Journal of the American Chemical Society</i> , 2015, 137, 8593-8602.	6.6	25
95	Changes in the Electronic States of Low-Temperature Solid <i>n</i> -Tetradecane: Decrease in the HOMO-LUMO Gap. <i>ACS Omega</i> , 2017, 2, 618-625.	1.6	25
96	Nonradiative decay dynamics of methyl-4-hydroxycinnamate and its hydrated complex revealed by picosecond pump-probe spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8999.	1.3	24
97	Silicon-coordinated nitrogen-doped graphene as a promising metal-free catalyst for N ₂ O reduction by CO: a theoretical study. <i>RSC Advances</i> , 2018, 8, 22322-22330.	1.7	24
98	Reaction Behavior of the NO Molecule on the Surface of an <i>n</i> Particle (M = Ru). <i>Journal of Physical Chemistry A</i> , 2019, 123, 7021-7033.	1.1	24
99	Elimination of singularities in molecular orbital derivatives: minimum orbital-deformation (MOD) method. <i>Chemical Physics Letters</i> , 2002, 356, 1-6.	1.2	23
100	Possible reaction pathway in methanol dehydrogenation on Pt and Ag surfaces/clusters starting from O-H scission: Dipped adcluster model study. <i>Surface Science</i> , 2009, 603, 641-646.	0.8	23
101	Enhancement of catalytic reactivity of zinc(II) complex by a cyclotrimeratrylene-capped structure. <i>Journal of Organometallic Chemistry</i> , 2012, 706-707, 26-29.	0.8	23
102	Electronic excited states and electronic spectra of biphenyl: a study using many-body wavefunction methods and density functional theories. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17426.	1.3	23
103	Coumarin-based donor-acceptor organic dyes for a dye-sensitized solar cell: photophysical properties and electron injection mechanism. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	23
104	Crystallographic characterization of Er ₂ C ₂ @C ₂ (43)-C ₉₀ , Er ₂ C ₂ @C ₂ (40)-C ₉₀ , Er ₂ C ₂ @C ₂ (44)-C ₉₀ , and Er ₂ C ₂ @C ₁ (21)-C ₉₀ : the role of cage-shape on cluster configuration. <i>Nanoscale</i> , 2019, 11, 17319-17326.	2.8	23
105	New aspects of the photodissociation of water in the first absorption band: How strong is excitation of the first triplet state?. <i>Journal of Chemical Physics</i> , 1998, 109, 6641-6646.	1.2	22
106	Theoretical Insights into Monometallofullerene Th@C ₇₆ : Strong Covalent Interaction between Thorium and the Carbon Cage. <i>Inorganic Chemistry</i> , 2018, 57, 2961-2964.	1.9	22
107	Ni-Catalyzed Dimerization and Hydroperfluoroarylation of 1,3-Dienes. <i>Journal of Organic Chemistry</i> , 2018, 83, 9267-9277.	1.7	22
108	Enhanced oxygen reduction activity of platinum subnanocluster catalysts through charge redistribution. <i>Chemical Communications</i> , 2019, 55, 12603-12606.	2.2	22

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109	Ionization spectra of XONO2 (X=F, Cl, Br, I) studied by the SAC-Cl method. <i>Chemical Physics</i> , 1998, 226, 113-123.	0.9	21
110	Ground and Excited States of Singlet, Cation Doublet, and Anion Doublet States of o-Benzoquinone: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2634-2639.	1.1	21
111	Auger decay of molecular double core-hole and its satellite states: Comparison of experiment and calculation. <i>Journal of Chemical Physics</i> , 2012, 137, 224306.	1.2	21
112	Absorption and emission properties of various substituted cinnamic acids and cinnamates, based on TDDFT investigation. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 542-554.	1.0	21
113	Ionization spectrum of CO2 studied by the SAC-Cl general-R method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1999, 55, 487-493.	2.0	20
114	Outer- and inner-valence ionization spectra of NH3, PH3, and AsH3: symmetry-adapted cluster configuration interaction general-R study. <i>Journal of Chemical Physics</i> , 2002, 116, 1934-1943.	1.2	20
115	Ab initio study of the excited singlet states of all-trans $\hat{\pm}$, $\hat{\pi}$ -diphenylpolyenes with one to seven polyene double bonds: Simulation of the spectral data within Franck-Condon approximation. <i>Journal of Chemical Physics</i> , 2009, 131, 174313.	1.2	20
116	Efficiency of perturbation-selection and its orbital dependence in the SAC-Cl calculations for valence excitations of medium-size molecules. <i>Journal of Computational Chemistry</i> , 2014, 35, 2163-2176.	1.5	20
117	Different photoisomerization routes found in the structural isomers of hydroxy methylcinnamate. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17583-17598.	1.3	20
118	Influence of local strain caused by cycloaddition on the band gap control of functionalized single-walled carbon nanotubes. <i>RSC Advances</i> , 2019, 9, 13998-14003.	1.7	20
119	Collision induced absorption spectra and line broadening of CsRg system (Rg=Xe, Kr, Ar, Ne) studied by the symmetry adapted cluster configuration interaction (SAC-Cl) method. <i>Journal of Chemical Physics</i> , 1995, 102, 6822-6830.	1.2	19
120	Projected CAP/SAC-Cl method with smooth V _{oronoi} potential for calculating resonance states. <i>Journal of Computational Chemistry</i> , 2016, 37, 242-249.	1.5	19
121	Mechanism of the aerobic oxidation of methanol to formic acid on Au ₈ ⁺ : A DFT study. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 428-436.	1.0	18
122	Aerobic Oxidation of Methanol to Formic Acid on Au ₈ ⁺ : Benchmark Analysis Based on Completely Renormalized Coupled-Cluster and Density Functional Theory Calculations. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10416-10427.	1.1	18
123	Probing the electronic structures of Co _n (n = 1-5) clusters on $\hat{3}$ -Al ₂ O ₃ surfaces using first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3679-3687.	1.3	18
124	Diels-Alder Cycloaddition of Cyclopentadiene and C ₆₀ at the Extreme High Pressure. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4363-4371.	1.1	18
125	The direct observation of the doorway ¹ \hat{n} * state of methylcinnamate and hydrogen-bonding effects on the photochemistry of cinnamate-based sunscreens. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19755-19763.	1.3	18
126	Mechanisms for Solvatochromic Shifts of Free-Base Porphine Studied with Polarizable Continuum Models and Explicit Solvent Interactions. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 470-480.	2.3	17

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127	Analytical energy gradient of high-spin multiplet state calculated by the SAC-CI method. <i>Chemical Physics Letters</i> , 2001, 350, 351-358.	1.2	16
128	Theoretical investigation on the valence ionization spectra of Cl ₂ O, ClOOCl, and F ₂ O by correlation-based configuration interaction methods. <i>Journal of Chemical Physics</i> , 2003, 118, 5811-5820.	1.2	16
129	Optical absorption and fluorescence of PRODAN in solution: Quantum chemical study based on the symmetry-adapted cluster-configuration interaction method. <i>Chemical Physics Letters</i> , 2012, 552, 53-57.	1.2	16
130	Electronic Transitions in Conformationally Controlled Peralkylated Hexasilanes. <i>ChemPhysChem</i> , 2016, 17, 3010-3022.	1.0	16
131	Core-Shell versus Other Structures in Binary Cu ₃₈ M _n Nanoclusters (M = Ru, Rh, Pd, Ag, Os, Ir, Pt, and Au; n = 1, 2, and 6): Theoretical Insight into Determining Factors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10514-10528.	1.5	16
132	Mechanism of NO-CO reaction over highly dispersed cuprous oxide on γ -alumina catalyst using a metal-support interfacial site in the presence of oxygen: similarities to and differences from biological systems. <i>Catalysis Science and Technology</i> , 2018, 8, 3833-3845.	2.1	16
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