

Koichi Ohno

List of Publications by Year in descending order

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267
papers

7,133
citations

70961

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times ranked

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#	ARTICLE	IF	CITATIONS
1	High performance global exploration of isomers and isomerization channels on quantum chemical potential energy surface of $\langle \text{H}^5 \rangle \text{C}^2 \text{NO}^2 \rangle$. Journal of Computational Chemistry, 2021, 42, 192-204.	1.5	5
2	Quantum Chemical Exploration of Intermolecular Reactions of Acetylene. Journal of Computational Chemistry, 2020, 41, 687-697.	1.5	2
3	Migrations and Catalytic Action of Water Molecules in the Ionized Formamide H_2O_2 Cluster. Journal of Physical Chemistry A, 2020, 124, 2802-2807.	1.1	0
4	Conformation Search of Glycine by Applying the Scaled Hypersphere Search Method to Discrete Atoms in the Molecule. Chemistry Letters, 2020, 49, 826-827.	0.7	1
5	Searching the crystal structure of silicon using the generalized scaled hypersphere search method with the rapid nuclear motion approximation. Japanese Journal of Applied Physics, 2020, 59, 035503.	0.8	3
6	Quantum chemical exploration of polymerized forms of polycyclic aromatic hydrocarbons: D _{6h} tetramer and polymer of coronene. Chemical Physics Letters, 2020, 747, 137366.	1.2	3
7	Crystal Structure Exploration of Boron Nitride Polymorphs Using Anharmonic Downward Distortion Following Method with Potential Energy Surface Modified by the Inverse of Lattice Volume. Chemistry Letters, 2019, 48, 1288-1291.	0.7	4
8	Geometry optimizations and evaluation of electronic properties of prism carbon tubes by density functional theory using plane waves. Chemical Physics Letters, 2019, 718, 32-37.	1.2	1
9	Quantum chemical exploration of new π -electron systems: Capsule-formed dimers of polycyclic aromatic hydrocarbons. Chemical Physics Letters, 2019, 725, 59-65.	1.2	5
10	The Rise of Catalyst Informatics: Towards Catalyst Genomics. ChemCatChem, 2019, 11, 1146-1152.	1.8	72
11	Quantum chemical exploration of dimeric forms of polycyclic aromatic hydrocarbons, naphthalene, perylene, and coronene. Chemical Physics Letters, 2019, 716, 147-154.	1.2	6
12	Exploration of Carbon Allotropes with Four-membered Ring Structures on Quantum Chemical Potential Energy Surfaces. Journal of Computational Chemistry, 2019, 40, 14-28.	1.5	8
13	Core Electron Topologies in Chemical Compounds: Case Study of Carbon versus Silicon. Angewandte Chemie, 2018, 130, 7130-7136.	1.6	6
14	Core Electron Topologies in Chemical Compounds: Case Study of Carbon versus Silicon. Angewandte Chemie - International Edition, 2018, 57, 7012-7018.	7.2	6
15	Frontispiz: Core Electron Topologies in Chemical Compounds: Case Study of Carbon versus Silicon. Angewandte Chemie, 2018, 130, .	1.6	0
16	Quantum chemical exploration of conversion pathways and isomeric structures of C ₁₆ molecules. Chemical Physics Letters, 2018, 711, 60-65.	1.2	3
17	Quantum chemical exploration of formaldehyde clusters $(\text{H}_2\text{CO})_n$ ($n=4$). Journal of Computational Chemistry, 2018, 39, 1498-1507.	1.5	11
18	Frontispiece: Core Electron Topologies in Chemical Compounds: Case Study of Carbon versus Silicon. Angewandte Chemie - International Edition, 2018, 57, .	7.2	0

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19	Limited Search Characteristics of the Scaled Hypersphere Search Method: A Systematic Case Study for Isomers of BCNOS. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1625-1629.	2.0	0
20	Global exploration of isomers and isomerization channels on the quantum chemical potential energy surface of H ₃ CNO ₃ . <i>Journal of Computational Chemistry</i> , 2017, 38, 669-687.	1.5	15
21	Defect-Induced Vibration Modes of Ar^+ -Irradiated MoS ₂ . <i>Physical Review Applied</i> , 2017, 7, ...	1.5	58
22	Potential Energy Surface-Based Automatic Deduction of Conformational Transition Networks and Its Application on Quantum Mechanical Landscapes of d -Glucose Conformers. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5293-5308.	2.3	20
23	An Automated Exploration of Hexagonal Boron Nitride Structures by Using Quantum Chemical Calculations. <i>Chemistry Letters</i> , 2016, 45, 333-335.	0.7	2
24	Reply to the "Comment on "Theoretical studies on a carbonaceous molecular bearing: association thermodynamics and dual-mode rolling dynamics" by E. M. Cabaleiro-Lago, J. Rodriguez-Otero and A. Gil, <i>Chem. Sci.</i> , 2016, 7, 2929-2932. DOI: 10.1039/C5SC04676A. <i>Chemical Science</i> , 2016, 7, 2929-2932.	3.7	17
25	Study of Potential Energy Surfaces towards Global Reaction Route Mapping. <i>Chemical Record</i> , 2016, 16, 2198-2218.	2.9	9
26	An automated efficient conformation search of l-serine by the scaled hypersphere search method. <i>Chemical Physics Letters</i> , 2016, 652, 209-215.	1.2	11
27	A Prism Carbon Molecule C ₂₀ . <i>Chemistry Letters</i> , 2015, 44, 712-714.	0.7	12
28	Isomers of Benzene on Its Global Network of Reaction Pathways. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1284-1290.	2.0	9
29	"Maizo"-chemistry Project: toward Molecular- and Reaction Discovery from Quantum Mechanical Global Reaction Route Mappings. <i>Journal of Computer Chemistry Japan</i> , 2015, 14, 77-79.	0.0	6
30	Prism-C _{2n} carbon dimer, trimer, and nano-sheets: A quantum chemical study. <i>Chemical Physics Letters</i> , 2015, 633, 120-125.	1.2	14
31	Theoretical studies on a carbonaceous molecular bearing: association thermodynamics and dual-mode rolling dynamics. <i>Chemical Science</i> , 2015, 6, 2746-2753.	3.7	56
32	From Roaming Atoms to Hopping Surfaces: Mapping Out Global Reaction Routes in Photochemistry. <i>Journal of the American Chemical Society</i> , 2015, 137, 3433-3445.	6.6	91
33	Wavy carbon: A new series of carbon structures explored by quantum chemical calculations. <i>Chemical Physics Letters</i> , 2015, 639, 178-182.	1.2	12
34	A quantum chemical study of novel carbon structures: Prism carbon tubes. <i>Chemical Physics Letters</i> , 2015, 635, 180-184.	1.2	11
35	Automated exploration of isomerization and dissociation pathways of ethylene sulfide cation by the global reaction route mapping method. <i>Chemical Physics Letters</i> , 2015, 641, 97-103.	1.2	5
36	Theoretical Mechanistic Studies on Methyltrioxorhenium-Catalyzed Olefin Cyclopropanation: Stepwise Transfer of a Terminal Methylene Group. <i>Organometallics</i> , 2014, 33, 3840-3846.	1.1	7

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37	Isolable 2,3-Disila-1,3-butadiene from a Double Sila-Peterson Reaction. <i>Chemistry - A European Journal</i> , 2014, 20, 9424-9430.	1.7	18
38	Anharmonic Downward Distortion Following for Automated Exploration of Quantum Chemical Potential Energy Surfaces. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 1315-1334.	2.0	41
39	Exploration of Isomers of Benzene by GRRM/SCC-DFTB. <i>Chemistry Letters</i> , 2014, 43, 702-704.	0.7	11
40	Direct Pathway for Water-Gas Shift Reaction in Gas Phase. <i>Chemistry Letters</i> , 2014, 43, 193-195.	0.7	6
41	Systematic exploration of the mechanism of chemical reactions: the global reaction route mapping (GRRM) strategy using the ADDF and AFIR methods. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3683.	1.3	456
42	Two-Dimensional Penning Ionization Electron Spectroscopy of Open-Shell Metallocenes: Outer Valence Ionic States of Vanadocene and Nickelocene. <i>Journal of Physical Chemistry A</i> , 2013, 117, 3025-3033.	1.1	3
43	Anthryl-Substituted 3-Silylene-2-silaaziridine Obtained by Isomerization of Disilacyclopropanimine: An Exocyclic Silene Showing a Distinct Intramolecular Charge Transfer Transition. <i>Journal of the American Chemical Society</i> , 2013, 135, 10606-10609.	6.6	30
44	Exploring Multiple Potential Energy Surfaces: Photochemistry of Small Carbonyl Compounds. <i>Advances in Physical Chemistry</i> , 2012, 2012, 1-13.	2.0	29
45	Systematic Exploration of Chemical Structures and Reaction Pathways on the Quantum Chemical Potential Energy Surface by Means of the Anharmonic Downward Distortion Following Method. <i>Progress in Theoretical Chemistry and Physics</i> , 2012, , 381-394.	0.2	2
46	Anionic Polymerization Mechanism of Acrylonitrile Trimer Anions: Key Branching Point between Cyclization and Chain Propagation. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7937-7942.	1.1	5
47	Automated Exploration of Chemical Reaction Pathways. <i>Molecular Science</i> , 2011, 5, A0042-A0042.	0.2	2
48	Ab initio anharmonic calculations of vibrational frequencies of benzene by means of efficient construction of potential energy functions. <i>Chemical Physics Letters</i> , 2011, 503, 322-326.	1.2	12
49	Two-dimensional Penning ionization electron spectroscopy of CH3I and CH2I2 by He*(23S) metastable atoms. <i>Journal of Physics: Conference Series</i> , 2010, 235, 012014.	0.3	0
50	A systematic study on the RuHCl-BINAP-catalyzed asymmetric hydrogenation mechanism by the global reaction route mapping method†. <i>Journal of Molecular Catalysis A</i> , 2010, 324, 133-140.	4.8	14
51	Theoretical Investigation of the Reaction Pathway of O Atom on Si(001)-(2 × 1). <i>Journal of Physical Chemistry C</i> , 2010, 114, 15671-15677.	1.5	11
52	Long-Range Migration of a Water Molecule To Catalyze a Tautomerization in Photoionization of the Hydrated Formamide Cluster. <i>Journal of Physical Chemistry A</i> , 2010, 114, 11896-11899.	1.1	21
53	Adsorption of Small Molecules with the Hydroxyl Group on Sodium Halide Cluster Ions. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1432-1436.	1.1	6
54	A Theoretical Study on the Photodissociation of Acetone: Insight into the Slow Intersystem Crossing and Exploration of Nonadiabatic Pathways to the Ground State. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1841-1845.	2.1	58

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55	Valence ionized states of iron pentacarbonyl and η^5 -cyclopentadienyl cobalt dicarbonyl studied by symmetry-adapted cluster-configuration interaction calculation and collision-energy resolved Penning ionization electron spectroscopy. <i>Journal of Chemical Physics</i> , 2010, 132, 084302.	1.2	11
56	Synthesis and structure of stable base-free dialkylsilanamines. <i>New Journal of Chemistry</i> , 2010, 34, 1637.	1.4	55
57	Updated Branching Plane for Finding Conical Intersections without Coupling Derivative Vectors. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1538-1545.	2.3	137
58	Systematic Search for Isomerization Pathways of Hexasilabenzene for Finding Its Kinetic Stability. <i>Organometallics</i> , 2009, 28, 2218-2224.	1.1	56
59	Penning ionization electron spectra of pyrene, chrysene, and coronene in collision with metastable $\text{He}(2^3\text{S})$ atoms in the gas phase. <i>Journal of Chemical Physics</i> , 2009, 130, 024306.	1.2	8
60	Automated exploration of stable isomers of $\text{H}^+(\text{H}_2\text{O})_n$ ($n = 5-7$) via <i>ab initio</i> calculations: An application of the anharmonic downward distortion following algorithm. <i>Journal of Computational Chemistry</i> , 2009, 30, 952-961.	1.5	44
61	Water-catalyzed gas-phase reaction of formic acid with hydroxyl radical: A computational investigation. <i>Chemical Physics Letters</i> , 2009, 469, 57-61.	1.2	64
62	Stereodynamics and Outer Valence Ionic States of Ferrocene in Collisional Ionization with a $\text{He}^*(2^3\text{S})$ Metastable Atom by Two-Dimensional Penning Ionization Electron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 521-526.	1.1	4
63	Collision-Energy-Resolved Penning Ionization Electron Spectroscopy of Glycine with $\text{He}(2^3\text{S})$ Metastable Atoms: Conformational Isomers in Collisional Ionization. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10779-10786.	1.1	5
64	An Automated and Systematic Transition Structure Explorer in Large Flexible Molecular Systems Based on Combined Global Reaction Route Mapping and Microiteration Methods. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2734-2743.	2.3	60
65	Automated Global Mapping of Minimal Energy Points on Seams of Crossing by the Anharmonic Downward Distortion Following Method: A Case Study of H_2CO . <i>Journal of Physical Chemistry A</i> , 2009, 113, 1704-1710.	1.1	92
66	Anisotropic interactions and valence ionic states of dibenzenechromium observed by collision-energy-resolved penning ionization electron spectroscopy with $\text{He}^*(2^3\text{S})$ metastable atoms. <i>Journal of Physics: Conference Series</i> , 2009, 185, 012020.	0.3	1
67	Phonon dispersion and vibronic coupling in carbon nanoribbons. <i>Journal of Physics: Conference Series</i> , 2009, 185, 012055.	0.3	1
68	Outer Valence Ionic States of $\text{Cr}(\text{CO})_6$ and $(\text{I}^5\text{-C}_5\text{H}_5)_2\text{Co}(\text{CO})_2$ Observed by Two-Dimensional Penning Ionization Electron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14559-14564.	1.1	5
69	Decomposition of alkyl hydroperoxide by a copper(I) complex: insights from density functional theory. <i>Tetrahedron Letters</i> , 2008, 49, 6841-6845.	0.7	8
70	A new global reaction route map on the potential energy surface of H_2CO with unrestricted level. <i>Chemical Physics Letters</i> , 2008, 460, 55-58.	1.2	32
71	Microsolvation of Hydrogen Sulfide: Exploration of $\text{SH}_2\text{S}^+(\text{H}_2\text{O})_n$ and $\text{SH}^+\text{H}_3\text{O}^+(\text{H}_2\text{O})_n$ ($n = 1-7$) Cluster Structures on <i>Ab Initio</i> Potential Energy Surfaces by the Scaled Hypersphere Search Method. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2962-2968.	1.1	31
72	Conformation-Specific Raman Bands and Electronic Conjugation in Substituted Thioanisoles. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12220-12227.	1.1	7

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73	Lowest Transition State for the Chirality-Determining Step in Ru(<i>R</i> -BINAP)-Catalyzed Asymmetric Hydrogenation of Methyl-3-Oxobutanoate. <i>Journal of the American Chemical Society</i> , 2008, 130, 17228-17229.	6.6	48
74	DFT Study on Isomerization and Decomposition of Cuprous Dialkyldithiophosphate and Its Reaction with Alkylperoxy Radical. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5720-5726.	1.1	12
75	Finding important anharmonic terms in the sixth-order potential energy function by the scaled hypersphere search method: An application to vibrational analyses of molecules and clusters. <i>Journal of Chemical Physics</i> , 2008, 128, 144111.	1.2	31
76	Intramolecular vibrational frequencies of water clusters (H ₂ O) _n (n=2-5): Anharmonic analyses using potential functions based on the scaled hypersphere search method. <i>Journal of Chemical Physics</i> , 2008, 129, 074315.	1.2	35
77	Phonon dispersions of hydrogenated and dehydrogenated carbon nanoribbons. <i>Physical Review B</i> , 2008, 77, .	1.1	54
78	Molecular vibrations of [n]oligoacenes (n=2-5 and 10) and phonon dispersion relations of polyacene. <i>Journal of Chemical Physics</i> , 2007, 126, 064904.	1.2	32
79	Automated Exploration of Adsorption Structures of an Organic Molecule on RuH ₂ -BINAP by the ONIOM Method and the Scaled Hypersphere Search Method. <i>Journal of Physical Chemistry A</i> , 2007, 111, 13168-13171.	1.1	25
80	Quantum Chemistry Study of H ₂ (H ₂ O) ₈ : A Global Search for Its Isomers by the Scaled Hypersphere Search Method, and Its Thermal Behavior. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10732-10737.	1.1	65
81	Structures of Water Octamers (H ₂ O) ₈ : Exploration on Ab Initio Potential Energy Surfaces by the Scaled Hypersphere Search Method. <i>Journal of Physical Chemistry A</i> , 2007, 111, 4527-4534.	1.1	118
82	Infrared Photodissociation Spectroscopy of Al+(CH ₃ OH) _n (n= 1-4). <i>Journal of Physical Chemistry A</i> , 2007, 111, 5995-6002.	1.1	7
83	Insight into Global Reaction Mechanism of [C ₂ , H ₄ , O] System from ab Initio Calculations by the Scaled Hypersphere Search Method. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5099-5110.	1.1	48
84	Determination of outer molecular orbitals by collisional ionization experiments and comparison with Hartree-Fock, Kohn-Sham, and Dyson orbitals. <i>Physical Review A</i> , 2007, 75, .	1.0	20
85	Observation of anisotropic interactions between metastable atoms and target molecules by two-dimensional collisional ionization electron spectroscopy. <i>International Reviews in Physical Chemistry</i> , 2007, 26, 93-138.	0.9	20
86	Computational Study of Titanocene-Catalyzed Dehydrocoupling of the Adduct Me ₂ NH-BH ₃ : An Intramolecular, Stepwise Mechanism. <i>Organometallics</i> , 2007, 26, 3597-3600.	1.1	106
87	Global reaction route mapping on potential energy surfaces of $\frac{3}{2}$ and $\frac{3}{2}$. <i>Chemical Physics Letters</i> , 2007, 447, 21-26.	1.2	32
88	Large Raman-scattering activities for the low-frequency modes of substituted benzenes: Induced polarizability and stereo-specific ring-substituent interactions. <i>Journal of Chemical Physics</i> , 2006, 124, 104301.	1.2	24
89	Global Reaction Route Mapping on Potential Energy Surfaces of Formaldehyde, Formic Acid, and Their Metal-Substituted Analogues. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8933-8941.	1.1	270
90	Anisotropic Interaction and Stereoreactivity in a Chemi-Ionization Process of OCS by Collision with He*(2S) Metastable Atoms. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11010-11017.	1.1	4

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91	Collision-Energy-Resolved Penning Ionization Electron Spectroscopy of Phenylacetylene and Diphenylacetylene by Collision with He*(23S) Metastable Atoms. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1783-1790.	1.1	7
92	Collision-Energy-Resolved Penning Ionization Electron Spectroscopy of Thiazole and Benzothiazole: A Study of Ionic States and Anisotropic Interactions between a Metastable He*(23S) Atom and Hetero Cyclic Compounds. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7097-7104.	1.1	10
93	Spectroscopic and vibronic properties of dehydrogenated polycyclic aromatic hydrocarbons and honeycomb carbon clusters. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
94	Global Mapping of Small Carbon Clusters Using the Scaled Hypersphere Search Method. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	3
95	D \rightarrow L Conversion Pathways between Optical Isomers of Alanine: Applications of the Scaled Hypersphere Search Method to Explore Unknown Reaction Routes in a Chiral System. <i>Chemistry Letters</i> , 2006, 35, 492-493.	0.7	18
96	Global analysis of reaction pathways on the potential energy surface of cyanoacetylene by the scaled hypersphere search method. <i>Chemical Physics Letters</i> , 2006, 418, 208-216.	1.2	32
97	Collision-energy-resolved angular distribution of Penning electrons for N ₂ ⁺ He ⁺ (23S). <i>Chemical Physics Letters</i> , 2006, 426, 43-48.	1.2	2
98	Aromaticity of Giant Polycyclic Aromatic Hydrocarbons with Hollow Sites: Super Ring Currents in Super-Rings. <i>Chemistry - A European Journal</i> , 2006, 12, 5757-5769.	1.7	47
99	Photodissociation of Mg+XCH ₃ (X=F, Cl, Br, and I) complexes. I. Electronic spectra and dissociation pathways. <i>Journal of Chemical Physics</i> , 2006, 125, 094309.	1.2	15
100	Photodissociation of Mg+XCH ₃ (X=F, Cl, Br, and I) complexes. II. Fragment angular and energy distributions. <i>Journal of Chemical Physics</i> , 2006, 125, 094310.	1.2	10
101	Probing anisotropic interaction potentials of unsaturated hydrocarbons with He*(2S3) metastable atom: Attractive-site preference of σ -direction in C ₂ H ₂ and π -direction in C ₂ H ₄ . <i>Journal of Chemical Physics</i> , 2006, 124, 104308.	1.2	6
102	Conversion pathways between a fullerene and a ring among C ₂₀ clusters by a sphere contracting walk method: Remarkable difference in local potential energy landscapes around the fullerene and the ring. <i>Journal of Chemical Physics</i> , 2006, 124, 174306.	1.2	35
103	Energies of Low-lying Excited States and Reactivity of Giant Polycyclic Aromatic Hydrocarbons with a Hole Inside. <i>Chemistry Letters</i> , 2005, 34, 506-507.	0.7	7
104	Two-dimensional Penning ionization electron spectroscopic study on outer characteristics of molecules. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 142, 283-293.	0.8	6
105	A new approach for finding a transition state connecting a reactant and a product without initial guess: applications of the scaled hypersphere search method to isomerization reactions of HCN, (H ₂ O) ₂ , and alanine dipeptide. <i>Chemical Physics Letters</i> , 2005, 404, 95-99.	1.2	66
106	A scaled hypersphere interpolation technique for efficient construction of multidimensional potential energy surfaces. <i>Chemical Physics Letters</i> , 2005, 414, 265-270.	1.2	25
107	Development of a cooled He*(2S3) beam source for measurements of state-resolved collision energy dependence of Penning ionization cross sections: Evidence for a stereospecific attractive well around methyl group in CH ₃ CN. <i>Journal of Chemical Physics</i> , 2005, 123, 194308.	1.2	9
108	Penning ionization electron spectroscopy of C ₆ H ₆ by collision with He*(2 Σ ⁺ 3S) metastable atoms and classical trajectory calculations: Optimization of fab initiomodel potentials. <i>Journal of Chemical Physics</i> , 2005, 122, 044303.	1.2	15

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109	ADSORPTION REACTION OF POLAR ORGANIC MOLECULES ON $\{m\text{Si}\}^+_n$ CLUSTER IONS. International Journal of Modern Physics B, 2005, 19, 2502-2507.	1.0	0
110	Global Investigation on the Potential Energy Surface of CH_3CN : Application of the Scaled Hypersphere Search Method. Journal of Physical Chemistry A, 2005, 109, 7319-7328.	1.1	57
111	Probing the Shape and Stereochemistry of Molecular Orbitals in Locally Flexible Aromatic Chains: A Penning Ionization Electron Spectroscopy and Green's Function Study of the Electronic Structure of Biphenyl. Journal of Physical Chemistry A, 2005, 109, 10535-10546.	1.1	28
112	Collision-Energy-Resolved Penning Ionization Electron Spectroscopy of HCOOH , CH_3COOH , and HCOOCH_3 by Collision with $\text{He}^*(2^3\text{S})$ Metastable Atoms. Journal of Physical Chemistry A, 2005, 109, 4721-4727.	1.1	6
113	Size-dependent structures of $\text{Na}_n\text{In}^{+1}$ cluster ions with a methanol adsorbate: A combined study by photodissociation spectroscopy and density-functional theory calculation. Journal of Chemical Physics, 2005, 123, 161101.	1.2	4
114	Global Mapping of Equilibrium and Transition Structures on Potential Energy Surfaces by the Scaled Hypersphere Search Method: Applications to ab Initio Surfaces of Formaldehyde and Propyne Molecules. Journal of Physical Chemistry A, 2005, 109, 5742-5753.	1.1	310
115	Title is missing!. Shinku/Journal of the Vacuum Society of Japan, 2005, 48, 403-408.	0.2	0
116	EXCITED STATE CHARGE TRANSFER AND DISSOCIATION OF Mg^+CH_3 COMPLEX. , 2005, , .		0
117	INTRACLUSTER ANIONIC POLYMERIZATION INDUCED BY ELECTRON TRANSFER FROM ALKALI METAL ATOM TO UNSATURATED HYDROCARBON MOLECULES. , 2005, , .		0
118	Collision-energy-resolved Penning ionization electron spectroscopy of bromomethanes (CH_3Br). Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3074-3086.	1.2	8
119	Multiple Photofragmentation Pathways with Different Recoil Anisotropy from a Metal-Ion Ligand Complex. Physical Review Letters, 2004, 93, 193401.	2.9	11
120	Collision-energy-resolved Penning ionization electron spectroscopy of p-benzoquinone: Study of electronic structure and anisotropic interaction with $\text{He}^*(2^3\text{S})$ metastable atoms. Journal of Chemical Physics, 2004, 120, 11062-11070.	1.2	9
121	Novel series of giant polycyclic aromatic hydrocarbons: electronic structure and aromaticity. Chemical Physics Letters, 2004, 385, 512-518.	1.2	23
122	Intracluster cyclization reaction producing a benzene derivative: photoionization mass spectrometric study of alkali metal methyl propiolate clusters. International Journal of Mass Spectrometry, 2004, 232, 41-50.	0.7	2
123	Penning ionization electron spectroscopy of $(\text{C}_6\text{H}_6)\text{Cr}(\text{CO})_3$ and $(\text{C}_5\text{H}_5)\text{Mn}(\text{CO})_3$. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 313-317.	0.8	4
124	Collision-energy-resolved Penning ionization electron spectroscopy of substituted ethylenes. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 319-324.	0.8	1
125	A crossed-molecular beam study on collisional ionization dynamics of acetonitrile and benzene molecules with $\text{He}^*(2^3\text{S})$ metastable atoms. Chemical Physics Letters, 2004, 384, 73-79.	1.2	9
126	A scaled hypersphere search method for the topography of reaction pathways on the potential energy surface. Chemical Physics Letters, 2004, 384, 277-282.	1.2	360

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127	Photoelectron spectroscopy and density functional theory calculation of $\text{Nan}(\text{CS}_2)^{\sim}$ cluster negative ions for $n=1$ and 2. <i>Chemical Physics Letters</i> , 2004, 389, 241-246.	1.2	2
128	Determination of outer shape of molecular orbitals based on two-dimensional Penning ionization electron spectroscopy for N_2 and CO by $\text{He}^*(2^3\text{S})$. <i>Chemical Physics Letters</i> , 2004, 391, 366-373.	1.2	3
129	Low velocity experiments for collision energy dependence of partial ionization cross-sections of C_2H_2 with $\text{He}^*(2^3\text{S})$ metastable atoms. <i>Chemical Physics Letters</i> , 2004, 397, 242-246.	1.2	7
130	No activation barrier synthetic route of glycine from simple molecules (NH_3 , CH_2 , and CO_2) via carboxylation of ammonium ylide: a theoretical study by the scaled hypersphere search method. <i>Chemical Physics Letters</i> , 2004, 398, 240-244.	1.2	50
131	An overlap expansion method for improving ab initio model potentials: Anisotropic intermolecular potentials of N_2 , CO , and C_2H_2 with $\text{He}^*(2^3\text{S})$. <i>Journal of Chemical Physics</i> , 2004, 120, 781-790.	1.2	19
132	Photoionization Efficiency Curve Measurements of Alkali Metal Atom \sim Methyl Propiolate Clusters: $\hat{\text{A}}$ Observation of Intracuster Cyclotrimerization Products. <i>Journal of Physical Chemistry A</i> , 2004, 108, 5944-5949.	1.1	2
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