

Minori Abe

List of Publications by Year in descending order

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68
papers

1,594
citations

257450

24
h-index

315739

38
g-index

70
all docs

70
docs citations

70
times ranked

1241
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of HgOH to Assess Its Suitability for Electron Electric Dipole Moment Searches. <i>Atoms</i> , 2021, 9, 7.	1.6	6
2	Density Functional Study on Compounds to Accelerate the Electron Capture Decay of ${}^7\text{Be}$. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6356-6361.	2.5	3
3	Ab initio and steady-state models for uranium isotope fractionation in multi-step biotic and abiotic reduction. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 307, 212-227.	3.9	5
4	Density Functional Study of Metal-to-Ligand Charge Transfer and Hole-Hopping in Ruthenium(II) Complexes with Alkyl-Substituted Bipyridine Ligands. <i>ACS Omega</i> , 2021, 6, 55-64.	3.5	7
5	Relativistic coupled-cluster study of diatomic metal-alkali-metal molecules for electron electric dipole moment searches. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 015102.	1.5	3
6	Significance of Non-Linear Terms in the Relativistic Coupled-Cluster Theory in the Determination of Molecular Properties. <i>Symmetry</i> , 2020, 12, 811.	2.2	4
7	Attainable accuracies of QH ⁺ rotational transition frequencies (Q: ${}^{40}\text{Ca}$, ${}^{24}\text{Mg}$, ${}^{202}\text{Hg}$). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 085401.	1.5	1
8	Accurate determination of the enhancement factor $\langle i \rangle X \langle i \rangle$ for the nuclear Schiff moment in ${}^{205}\text{TlF}$ molecule based on the four-component relativistic coupled-cluster theory. <i>Molecular Physics</i> , 2020, 118, e1767814.	1.7	4
9	Inverted Sandwich Rh Complex Bearing a Plumbole Ligand and Its Catalytic Activity. <i>Organometallics</i> , 2019, 38, 3099-3103.	2.3	15
10	${}^{13}\text{C}$ and ${}^{207}\text{Pb}$ NMR Chemical Shifts of Dirhodio- and Dilithioplumbole Complexes: A Quantum Chemical Assessment. <i>Inorganic Chemistry</i> , 2019, 58, 14708-14719.	4.0	4
11	Enhanced sensitivity of the electron electric dipole moment from YbOH: The role of theory. <i>Physical Review A</i> , 2019, 99, .	2.5	30
12	Factors influencing the photoelectrochemical device performance sensitized by ruthenium polypyridyl dyes. <i>Dalton Transactions</i> , 2019, 48, 688-695.	3.3	18
13	The Role of Relativistic Many-Body Theory in Electron Electric Dipole Moment Searches Using Cold Molecules. <i>Atoms</i> , 2019, 7, 58.	1.6	0
14	Merits of heavy-heavy diatomic molecules for electron electric-dipole-moment searches. <i>Physical Review A</i> , 2019, 99, .	2.5	14
15	RaH as a potential candidate for electron electric-dipole-moment searches. <i>Physical Review A</i> , 2019, 99, .	2.5	16
16	Ultracold mercury-alkali-metal molecules for electron-electric-dipole-moment searches. <i>Physical Review A</i> , 2019, 99, .	2.5	11
17	Calculations of electronic properties and vibrational parameters of alkaline-earth lithides: MgLi ⁺ and CaLi ⁺ . <i>Molecular Physics</i> , 2019, 117, 712-725.	1.7	7
18	Spectroscopic Studies of ${}^1\text{H}^{\text{varSigma}} + {}^1\text{H}^{\text{varSigma}}$ and ${}^1\text{H}^{\text{varSigma}} + {}^1\text{H}^{\text{varSigma}}$ Molecular Ions. <i>Springer Proceedings in Physics</i> , 2019, , 191-198.	0.2	0

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37	Quantum chemical analyses of aromaticity, UV spectra, and NMR chemical shifts in plumbacyclopentadienylidenes stabilized by Lewis bases. <i>Journal of Computational Chemistry</i> , 2014, 35, 847-853.	3.3	8
38	Application of relativistic coupled-cluster theory to the effective electric field in YbF. <i>Physical Review A</i> , 2014, 90, .	2.5	52
39	Characterizing of variation in the proton-to-electron mass ratio via precise measurements of molecular vibrational transition frequencies. <i>Journal of Molecular Spectroscopy</i> , 2014, 300, 99-107.	1.2	17
40	Theoretical Study of Isotope Enrichment Caused by Nuclear Volume Effect. <i>Journal of Computer Chemistry Japan</i> , 2014, 13, 92-104.	0.1	5
41	Diagonal Born-Oppenheimer Correction Based on Spin-Free Relativistic Hamiltonians. <i>Journal of Computer Chemistry Japan</i> , 2014, 13, 229-232.	0.1	1
42	Nuclear field shift effect in isotope fractionation of thallium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 296, 261-265.	1.5	16
43	Copper isotope fractionation between aqueous compounds relevant to low temperature geochemistry and biology. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 110, 29-44.	3.9	140
44	Ab initio study of ground and excited states of ${}^6\text{Li}{}^{40}\text{Ca}$ and ${}^6\text{Li}{}^{88}\text{Sr}$ molecules. <i>Journal of Chemical Physics</i> , 2013, 138, 194307.	3.0	19
45	Sensitivity of vibrational spectroscopy of optically trapped SrLi and CaLi molecules to variations in m_p/m_e . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 025001.	1.5	31
46	Synthesis, Structure, and Reactivity of Lewis Base Stabilized Plumbacyclopentadienylidenes. <i>Chemistry - A European Journal</i> , 2013, 19, 16946-16953.	3.3	32
47	Frequency uncertainty estimation for the ${}^{40}\text{CaH}^+$ vibrational transition frequencies observed by Raman excitation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 185401.	1.5	10
48	Accuracy estimations of overtone vibrational transition frequencies of optically trapped ${}^{174}\text{Yb}$ and ${}^6\text{Li}$ molecules. <i>Physical Review A</i> , 2012, 85, .	2.5	20
49	Ab initio study on potential energy curves of electronic ground and excited states of ${}^{40}\text{CaH}^+$ molecule. <i>Chemical Physics Letters</i> , 2012, 521, 31-35.	2.6	16
50	Theoretical and experimental investigation of nickel isotopic fractionation in species relevant to modern and ancient oceans. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 469-482.	3.9	64
51	Proposed detection of variation in m_p/m_e using a vibrational transition frequency of a CaH^+ ion. Estimated accuracies of pure XH^+ (X: even isotopes of group II atoms) vibrational transition frequencies: towards the test of the variance in m_p/m_e . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 209802.	1.5	2
52	Estimated accuracies of pure XH^+ (X: even isotopes of group II atoms) vibrational transition frequencies: towards the test of the variance in m_p/m_e . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 025402.	1.5	33
53	Ab initio study of permanent electric dipole moment and radiative lifetimes of alkaline-earth-metal-Li molecules. <i>Physical Review A</i> , 2011, 84, .	2.5	35
54	Magnetic-field effects in transitions of XLi molecules (X: even isotopes of group II atoms). <i>Physical Review A</i> , 2011, 84, .	2.5	14

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55	Elimination of the Stark shift from the vibrational transition frequency of optically trapped $^{174}\text{Yb}^+$ molecules. Physical Review A, 2011, 84, .	2.5	46
56	Relativistic calculations of ground and excited states of LiYb molecule for ultracold photoassociation spectroscopy studies. Journal of Chemical Physics, 2010, 133, 124317.	3.0	36
57	<i>ab initio</i> study on vibrational dipole moments of XH^+ molecular ions: $\text{X} = ^{24}\text{Mg}, ^{40}\text{Ca}, ^{64}\text{Zn}, ^{88}\text{Sr}, ^{114}\text{Cd}, ^{138}\text{Ba}, ^{174}\text{Yb}$ and ^{202}Hg . Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 245102.		
58	Ligand effect on uranium isotope fractionations caused by nuclear volume effects: An <i>ab initio</i> relativistic molecular orbital study. Journal of Chemical Physics, 2010, 133, 044309.	3.0	30
59	Experimental and Theoretical Investigation of Isotope Fractionation of Zinc between Aqua, Chloro, and Macrocyclic Complexes. Journal of Physical Chemistry A, 2010, 114, 2543-2552.	2.5	70
60	Mass-Dependent and Mass-Independent Isotope Effects of Zinc in a Redox Reaction. Journal of Physical Chemistry A, 2009, 113, 12225-12232.	2.5	27
61	Relativistic Multireference Perturbation Theory: Complete Active-Space Second-Order Perturbation Theory (CASPT2) With The Four-Component Dirac Hamiltonian. Challenges and Advances in Computational Chemistry and Physics, 2008, , 157-177.	0.6	11
62	An <i>ab initio</i> molecular orbital study of the nuclear volume effects in uranium isotope fractionations. Journal of Chemical Physics, 2008, 129, 164309.	3.0	78
63	An <i>ab initio</i> study based on a finite nucleus model for isotope fractionation in the $\text{U(III)} \rightleftharpoons \text{U(IV)}$ exchange reaction system. Journal of Chemical Physics, 2008, 128, 144309.	3.0	30
64	The relativistic complete active-space second-order perturbation theory with the four-component Dirac Hamiltonian. Journal of Chemical Physics, 2006, 125, 234110.	3.0	46
65	Electronic structures of PtCu, PtAg, and PtAu molecules: a Dirac four-component relativistic study. Chemical Physics, 2005, 311, 129-137.	1.9	19
66	A four-index transformation in Dirac's four-component relativistic theory. Chemical Physics Letters, 2004, 388, 68-73.	2.6	46
67	A theoretical study of the low-lying states of the AuSi molecule: An assignment of the excited A and D states. Journal of Chemical Physics, 2002, 117, 7960-7967.	3.0	23
68	Accurate relativistic Gaussian basis sets for H through Lr determined by atomic self-consistent field calculations with the third-order Douglas-Kroll approximation. Journal of Chemical Physics, 2001, 115, 4463-4472.	3.0	158