

Hirotooshi Mori

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6062669/hirotoshi-mori-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

728
citations

15
h-index

22
g-index

67
ext. papers

791
ext. citations

3.2
avg, IF

3.84
L-index

#	Paper	IF	Citations
64	Compact and efficient basis sets of s- and p-block elements for model core potential method. <i>Journal of Chemical Physics</i> , 2005 , 122, 074104	3.9	59
63	Excited-state intramolecular proton transfer in photochromic jet-cooled N-salicylideneaniline. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002 , 154, 33-39	4.7	51
62	Fragment molecular orbital calculations on large scale systems containing heavy metal atom. <i>Chemical Physics Letters</i> , 2006 , 427, 159-165	2.5	48
61	Electronic band structure calculations on thin films of the L21 full Heusler alloys X ₂ YSi (X, Y = Mn, Fe, and Co): Toward spintronic materials. <i>Thin Solid Films</i> , 2012 , 520, 4979-4983	2.2	34
60	Fragment molecular orbital-based molecular dynamics (FMO-MD) simulations on hydrated Zn(II) ion. <i>Chemical Physics Letters</i> , 2010 , 490, 41-45	2.5	31
59	Experimental and theoretical approaches toward anion-responsive tripod-lanthanide complexes: mixed-donor ligand effects on lanthanide complexation and luminescence sensing profiles. <i>Chemistry - A European Journal</i> , 2008 , 14, 5258-66	4.8	26
58	Revised model core potentials for third-row transition-metal atoms from Lu to Hg. <i>Chemical Physics Letters</i> , 2009 , 476, 317-322	2.5	23
57	Origin of high oxygen reduction reaction activity of Pt and strategy to obtain better catalyst using sub-nanosized Pt-alloy clusters. <i>Scientific Reports</i> , 2017 , 7, 45381	4.9	22
56	Revised model core potentials for first-row transition-metal atoms from Sc to Zn. <i>Chemical Physics Letters</i> , 2008 , 452, 210-214	2.5	22
55	Theoretical study of hydration models of trivalent rare-earth ions using model core potentials. <i>Computational and Theoretical Chemistry</i> , 2010 , 949, 28-35		21
54	Theoretical study on vibrational circular dichroism spectra of tris(acetylacetonato)metal(III) complexes: anharmonic effects and low-lying excited states. <i>Journal of Chemical Physics</i> , 2011 , 135, 084506	3.9	20
53	Differences in hydration between cis- and trans-platin: Quantum insights by ab initio fragment molecular orbital-based molecular dynamics (FMO-MD). <i>Computational and Theoretical Chemistry</i> , 2012 , 986, 30-34	2	18
52	Structure and intermolecular hydrogen bond of jet-cooled p-aminophenol(H ₂ O) ₁ studied by electronic and IR-dip spectroscopy and density functional theory calculations. <i>Chemical Physics</i> , 2002 , 277, 105-115	2.3	17
51	Density functional theory calculations of iodine cluster anions: Structures, chemical bonding nature, and vibrational spectra. <i>Computational and Theoretical Chemistry</i> , 2011 , 973, 69-75	2	16
50	CASSCF and CASPT2 calculations for lanthanide trihalides LnX ₃ using model core potentials. <i>Chemical Physics Letters</i> , 2009 , 474, 28-32	2.5	15
49	Revised model core potentials for second-row transition metal atoms from Y to Cd. <i>Chemical Physics Letters</i> , 2008 , 463, 230-234	2.5	15
48	Application of fragment molecular orbital scheme to silicon-containing systems. <i>Chemical Physics Letters</i> , 2006 , 430, 361-366	2.5	15

47	DFT studies of the electronic structure and geometry of 18-crown-6, hexaaza[18]annulene, and their complexes with cations of the heavier alkali and alkaline earth metals. <i>Inorganica Chimica Acta</i> , 2008 , 361, 2166-2171	2.7	14
46	Theoretical study of low-lying electronic states of Mn ²⁺ using a newly developed relativistic model core potential. <i>Chemical Physics Letters</i> , 2008 , 462, 23-26	2.5	12
45	The Hydrogen Bond of the One-Dimensional Assembled Complex [Ni(2,2'-biimidazole) ₂]: The Effect of Transition Metals on the Hydrogen Bond. <i>Bulletin of the Chemical Society of Japan</i> , 2004 , 77, 687-690	5.1	12
44	Assessment of chemical core potentials for the computation on enthalpies of formation of transition-metal complexes. <i>Chemical Physics Letters</i> , 2012 , 521, 150-156	2.5	11
43	Theoretical Study on the Hydration Structure of Divalent Radium Ion Using Fragment Molecular Orbital-Molecular Dynamics (FMOMD) Simulation. <i>Journal of Solution Chemistry</i> , 2014 , 43, 1669-1675	1.8	11
42	Theoretical study of lanthanide mono cation-mediated C≡N bond activation. <i>Chemical Physics</i> , 2011 , 380, 48-53	2.3	11
41	A theoretical study of the physicochemical mechanisms associated with DNA recognition modulation in artificial zinc-finger proteins. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 4774-80	3.4	10
40	Model core potential and all-electron studies of molecules containing rare gas atoms. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 8786-92	2.8	10
39	4f-in-core model core potentials for trivalent lanthanides. <i>Chemical Physics Letters</i> , 2011 , 510, 261-266	2.5	10
38	Theoretical study of interactions between the Si(111) surface and metal atoms. <i>Surface Science</i> , 2002 , 514, 383-388	1.8	10
37	Recent Advances in Fragment Molecular Orbital-Based Molecular Dynamics (FMO-MD) Simulations		10
36	Electronic Structures of Platinum(II) Complexes with 2-Arylpyridine and 1,3-Diketonate Ligands: A Relativistic Density Functional Study on Photoexcitation and Phosphorescent Properties. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12443-12449	3.8	9
35	Computational research of the electronic structure of benzene trimer cation by ab initio method. <i>Chemical Physics Letters</i> , 2007 , 438, 157-161	2.5	9
34	Room-Temperature Phosphorescence Emitters Exhibiting Red to Near-Infrared Emission Derived from Intermolecular Charge-Transfer Triplet States of Naphthalenediimide-Halobenzoate Triad Molecules. <i>Chemistry - A European Journal</i> , 2021 , 27, 9535-9541	4.8	9
33	Effective Fragment Potential Version 2 - Molecular Dynamics (EFP2-MD) Simulation for Investigating Solution Structures of Ionic Liquids. <i>Chemistry Letters</i> , 2016 , 45, 1009-1011	1.7	8
32	Synthesis and Conformational Analysis of Alternately N-Alkylated Aromatic Amide Oligomers. <i>Journal of Organic Chemistry</i> , 2018 , 83, 14338-14349	4.2	8
31	Theoretical study on crystal-facet dependency of hydrogen storage rate for shape controlled Pd nano particles. <i>Chemical Physics Letters</i> , 2016 , 644, 255-260	2.5	7
30	Revised model core potentials of s-block elements. <i>Journal of Computational Chemistry</i> , 2007 , 28, 2424-305		7

29	LIF and IR Dip Spectra of Jet-Cooled p-Aminophenol \bar{M} (M = CO, N ₂): Hydrogen-Bonded or Van der Waals-Bonded Structure?. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 4886-4890	2.8	7
28	Stereoselective interactions as manifested by vibrational circular dichroism spectra: the interplay between chiral metal complexes co-adsorbed in a montmorillonite clay. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 25421-25427	3.6	7
27	Theoretical Design of a Molecular Switch with Controlled Hydrogen Bonds: Electronic and Vibrational Spectra of [Co(2,2'-biimidazole)(C ₆ H ₄ O ₂)(NH ₃) ₂] ₂ . <i>Bulletin of the Chemical Society of Japan</i> , 2007 , 80, 1335-1340	5.1	6
26	Molecular orbital study for Na, Mg, and Al adsorption on the Si (111) surface. <i>Computational and Theoretical Chemistry</i> , 2003 , 630, 225-232		6
25	Effects of intermolecular interaction on proton tunneling: Theoretical study on two-dimensional potential energy surfaces for 9-hydroxyphenalenone-CO ₂ /H ₂ O complexes. <i>Journal of Chemical Physics</i> , 2003 , 119, 4159-4165	3.9	6
24	Theoretical Design of a New Optical Durable Molecular Switch. <i>Chemistry Letters</i> , 2004 , 33, 758-759	1.7	6
23	A Quantum Chemical Study on Hydration of Ra (II): Comparison with the Other Hydrated Divalent Alkaline Earth Metal Ions. <i>Journal of Computer Chemistry Japan</i> , 2014 , 13, 105-113	0.2	6
22	Development of Helical Aromatic Amide Foldamers with a Diphenylacetylene Backbone. <i>Journal of Organic Chemistry</i> , 2020 , 85, 2019-2039	4.2	6
21	Conformational Properties of Aromatic Oligoamides Bearing Pyrrole Rings. <i>Journal of Organic Chemistry</i> , 2018 , 83, 4606-4617	4.2	5
20	Comparison of Inhibitory Activities of Stereo-Isomers of Cyclic Phosphatidic Acid (cPA) on Autotaxin. <i>Cytologia</i> , 2011 , 76, 73-80	0.9	4
19	Calibration of new model core potentials for main group elements. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 3235-3245	2.1	4
18	POSSIBILITY OF MOLECULAR-SWITCH WITH CONTROLLED HYDROGEN BOND: UTILITY OF COMBINATION OF 2,2'-BIIMIDAZOLE AND REDOX-ACTIVE LIGAND. <i>Journal of Theoretical and Computational Chemistry</i> , 2005 , 04, 333-344	1.8	4
17	Fragment molecular orbitalBased molecular dynamics (FMO-MD) simulations on hydrated Cu(II) ion. <i>Chem-Bio Informatics Journal</i> , 2014 , 14, 1-13	0.8	4
16	Theoretical Strategy for Improving CO ₂ Absorption of Mixed Ionic Liquids Focusing on the Anion Effect: A Comprehensive COSMO-RS Study. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8848-8854	3.9	3
15	Importance of spin-orbit coupling effect and solvent effect in electronic transition assignments of Pt(II) complexes: In the case of cis/trans-[Pt(II)Cl ₂ (NH ₃) ₂]. <i>Journal of Molecular Structure</i> , 2013 , 1035, 218-224	2.3	3
14	Theoretical quest for photoconversion molecules having opposite directions of the electric dipole moment in S ₀ and S ₁ states. <i>Journal of Chemical Physics</i> , 2009 , 130, 184311	3.9	3
13	Cyclic Heterometallic Interactions formed from a Flexible Tripeptide Complex Showing Effective Antiferromagnetic Spin Coupling. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5179-5183	16.4	3
12	Applicability of effective fragment potential version 2 [Molecular dynamics (EFP2-MD) simulations for predicting excess properties of mixed solvents. <i>Chemical Physics Letters</i> , 2018 , 694, 82-85	2.5	2

11	Electron affinities of heavier phosphoryl and thiophosphoryl halides APX ₃ (A = O, S and X = Br, I). <i>Journal of Computational Chemistry</i> , 2007 , 28, 2027-33	3.5	2
10	Adaptive Application Composition in Quantum Chemistry. <i>Lecture Notes in Computer Science</i> , 2009 , 194-214		2
9	Applicability of Effective Fragment Potential Version 2-Molecular Dynamics (EFP2-MD) Simulations for Predicting Dynamic Liquid Properties Including the Supercritical Fluid Phase. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 194-200	3.4	2
8	The ABINIT-MP Program 2021 , 53-67		2
7	ELECTRONIC STRUCTURE AND PHOTOCHEMISTRY OF INORGANIC PHOTOCROMIC COMPLEX [Cu(N,N'-DIETHYLETHYLENEDIAMINE) ₂] ²⁺ : PLANAR→TETRAHEDRAL GEOMETRY CHANGE ACCOMPANIED WITH d ₉ d ₁₀ ELECTRONIC TRANSITION. <i>Journal of Theoretical and Computational Chemistry</i> , 2006 , 05, 887-894	1.8	1
6	Synthesis, X-ray structure, photophysical properties, and theoretical studies of six-membered cyclometalated iridium(III) complexes: revisiting Ir(pnbi)(acac). <i>Dalton Transactions</i> , 2019 , 48, 15212-15219	4.3	1
5	Functional Group-Directed Photochemical Reactions of Aromatic Alcohols, Amines, and Thiols Triggered by Excited-State Hydrogen Detachment: Additive-free Oligomerization, Disulfidation, and C(sp ³)-H Carboxylation with CO. <i>Journal of Organic Chemistry</i> , 2021 , 86, 959-969	4.2	1
4	Room-Temperature Phosphorescence Emitters Exhibiting Red to Near-Infrared Emission Derived from Intermolecular Charge-Transfer Triplet States of Naphthalenediimide-Halobenzoate Triad Molecules. <i>Chemistry - A European Journal</i> , 2021 , 27, 9465	4.8	0
3	Photo-Induced State Conversion Mechanism of an Optically Durable Molecular Memory with Controlled Hydrogen Bonding: A Spin-Orbit CI Study of [Co(2,2'-biimidazole)(C ₆ H ₄ O ₂)(NH ₃) ₂] ²⁺ . <i>Bulletin of the Chemical Society of Japan</i> , 2008 , 81, 235-240	5.1	
2	Computational Design of Proton-Electron Coupling System for Optically Durable Molecular Memory 2019 , 794-798		
1	Cyclic Heterometallic Interactions formed from a Flexible Tripeptide Complex Showing Effective Antiferromagnetic Spin Coupling. <i>Angewandte Chemie</i> , 2021 , 133, 5239-5243	3.6	