

# Miho Isegawa

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3466697/publications.pdf>

Version: 2024-02-01

25  
papers

695  
citations

623734

14  
h-index

552781

26  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1056  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionization Energies and Redox Potentials of Hydrated Transition Metal Ions: Evaluation of Domain-Based Local Pair Natural Orbital Coupled Cluster Approaches. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1619-1632.	5.3	9
2	H <sub>2</sub> activation by hydrogenase-inspired NiFe catalyst using frustrated Lewis pair: effect of buffer and halide ion in the heterolytic H-H bond cleavage. <i>RSC Advances</i> , 2021, 11, 28420-28432.	3.6	3
3	Proton-Coupled Electron Transfer in Electrochemical Alanine Formation from Pyruvic Acid: Mechanism of Catalytic Reaction at the Interface between TiO <sub>2</sub> (101) and Water. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12603-12613.	3.1	7
4	Photochemical conversion of CO <sub>2</sub> to CO by a Re complex: theoretical insights into the formation of CO and HCO <sub>3</sub> <sup>+</sup> from an experimentally detected monoalkyl carbonate complex. <i>RSC Advances</i> , 2021, 11, 37713-37725.	3.6	6
5	Hydrogen evolution, electron-transfer, and hydride-transfer reactions in a nickel-iron hydrogenase model complex: a theoretical study of the distinctive reactivities for the conformational isomers of nickel-iron hydride. <i>Dalton Transactions</i> , 2021, 51, 312-323.	3.3	3
6	Selective Oxidation of H <sub>2</sub> and CO by NiIr Catalyst in Aqueous Solution: A DFT Mechanistic Study. <i>Inorganic Chemistry</i> , 2020, 59, 1014-1028.	4.0	8
7	[NiFe], [FeFe], and [Fe] hydrogenase models from isomers. <i>Science Advances</i> , 2020, 6, eaaz8181.	10.3	29
8	CO <sub>2</sub> reduction by a Mn electrocatalyst in the presence of a Lewis acid: a DFT study on the reaction mechanism. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1730-1738.	4.9	11
9	Electron and Hydride Transfer in a Redox-Active NiFe Hydride Complex: A DFT Study. <i>ACS Catalysis</i> , 2018, 8, 10419-10429.	11.2	13
10	DFT Study on Fe(IV)-Peroxo Formation and H Atom Transfer Triggered O <sub>2</sub> Activation by NiFe Complex. <i>Organometallics</i> , 2018, 37, 1534-1545.	2.3	11
11	Copper-Catalyzed Enantioselective Boron Conjugate Addition: DFT and AFIR Study on Different Selectivities of Cu(I) and Cu(II) Catalysts. <i>ACS Catalysis</i> , 2017, 7, 5370-5380.	11.2	28
12	Ionization Energies and Aqueous Redox Potentials of Organic Molecules: Comparison of DFT, Correlated ab Initio Theory and Pair Natural Orbital Approaches. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2272-2284.	5.3	94
13	Photochemical Ring Opening and Closing of Three Isomers of Diarylethene: Spin-Flip Time-Dependent Density Functional Study. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4191-4199.	2.5	17
14	Ab initio reaction pathways for photodissociation and isomerization of nitromethane on four singlet potential energy surfaces with three roaming paths. <i>Journal of Chemical Physics</i> , 2014, 140, 244310.	3.0	26
15	Complete active space second order perturbation theory (CASPT2) study of N(2D) + H <sub>2</sub> O reaction paths on D1 and D0 potential energy surfaces: Direct and roaming pathways. <i>Journal of Chemical Physics</i> , 2014, 141, 154303.	3.0	4
16	Predicting pathways for terpene formation from first principles - routes to known and new sesquiterpenes. <i>Chemical Science</i> , 2014, 5, 1555.	7.4	26
17	Quantum Mechanical Fragment Methods Based on Partitioning Atoms or Partitioning Coordinates. <i>Accounts of Chemical Research</i> , 2014, 47, 2731-2738.	15.6	27
18	Polarized Molecular Orbital Model Chemistry 3. The PMO Method Extended to Organic Chemistry. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 33-45.	5.3	18

#	ARTICLE	IF	CITATIONS
19	Assessment and Validation of Density Functional Approximations for Iron Carbide and Iron Carbide Cation. <i>Journal of Physical Chemistry A</i> , 2013, 117, 169-173.	2.5	23
20	Electrostatically Embedded Molecular Tailoring Approach and Validation for Peptides. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1381-1393.	5.3	54
21	Valence excitation energies of alkenes, carbonyl compounds, and azabenzenes by time-dependent density functional theory: Linear response of the ground state compared to collinear and noncollinear spin-flip TDDFT with the Tamm-Dancoff approximation. <i>Journal of Chemical Physics</i> , 2013, 138, 134111.	3.0	62
22	Performance of recent and high-performance approximate density functionals for time-dependent density functional theory calculations of valence and Rydberg electronic transition energies. <i>Journal of Chemical Physics</i> , 2012, 137, 244104.	3.0	165
23	Incorporation of charge transfer into the explicit polarization fragment method by grand canonical density functional theory. <i>Journal of Chemical Physics</i> , 2011, 135, 084107.	3.0	16
24	Polarizable Force Field for Protein with Charge Response Kernel. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2809-2821.	5.3	19
25	Electronic polarization effect on low-frequency infrared and Raman spectra of aprotic solvent: Molecular dynamics simulation study with charge response kernel by second order Møller-Plesset perturbation method. <i>Journal of Chemical Physics</i> , 2007, 127, 244502.	3.0	14