

Miho Isegawa

List of Publications by Year in descending order

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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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Electrostatically Embedded Molecular Tailoring Approach and Validation for Peptides. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1381-1393. | 5.3 | 54 |
| 5 | [NiFe], [FeFe], and [Fe] hydrogenase models from isomers. <i>Science Advances</i> , 2020, 6, eaaz8181. | 10.3 | 29 |
| 6 | 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 |
| 7 | Quantum Mechanical Fragment Methods Based on Partitioning Atoms or Partitioning Coordinates. <i>Accounts of Chemical Research</i> , 2014, 47, 2731-2738. | 15.6 | 27 |
| 8 | 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 |
| 9 | Predicting pathways for terpene formation from first principles " routes to known and new sesquiterpenes. <i>Chemical Science</i> , 2014, 5, 1555. | 7.4 | 26 |
| 10 | 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 |
| 11 | Polarizable Force Field for Protein with Charge Response Kernel. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2809-2821. | 5.3 | 19 |
| 12 | 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 |
| 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 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | DFT Study on Fe(IV)-Peroxo Formation and H Atom Transfer Triggered O ₂ Activation by NiFe Complex. <i>Organometallics</i> , 2018, 37, 1534-1545. | 2.3 | 11 |
| 18 | CO ₂ 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | Selective Oxidation of H ₂ and CO by NiIr Catalyst in Aqueous Solution: A DFT Mechanistic Study. <i>Inorganic Chemistry</i> , 2020, 59, 1014-1028. | 4.0 | 8 |
| 21 | Proton-Coupled Electron Transfer in Electrochemical Alanine Formation from Pyruvic Acid: Mechanism of Catalytic Reaction at the Interface between TiO ₂ (101) and Water. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12603-12613. | 3.1 | 7 |
| 22 | Photochemical conversion of CO ₂ to CO by a Re complex: theoretical insights into the formation of CO and HCO ₃ [•] from an experimentally detected monoalkyl carbonate complex. <i>RSC Advances</i> , 2021, 11, 37713-37725. | 3.6 | 6 |
| 23 | Complete active space second order perturbation theory (CASPT2) study of N(2D) + H ₂ 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 |
| 24 | H ₂ 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 |
| 25 | 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 |