Marco Caricato

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1355527/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Formation and relaxation of excited states in solution: A new time dependent polarizable continuum model based on time dependent density functional theory. Journal of Chemical Physics, 2006, 124, 124520. | 3.0 | 484 |
| 2 | Electronic Transition Energies: A Study of the Performance of a Large Range of Single Reference Density Functional and Wave Function Methods on Valence and Rydberg States Compared to Experiment. Journal of Chemical Theory and Computation, 2010, 6, 370-383. | 5.3 | 202 |
| 3 | A variational formulation of the polarizable continuum model. Journal of Chemical Physics, 2010, 133, 014106. | 3.0 | 125 |
| 4 | Oscillator Strength: How Does TDDFT Compare to EOM-CCSD?. Journal of Chemical Theory and Computation, 2011, 7, 456-466. | 5.3 | 123 |
| 5 | Energy-Specific Equation-of-Motion Coupled-Cluster Methods for High-Energy Excited States: Application to <i>K</i> -edge X-ray Absorption Spectroscopy. Journal of Chemical Theory and Computation, 2015, 11, 4146-4153. | 5.3 | 92 |
| 6 | Absorption and Emission Spectra of Solvated Molecules with the EOM–CCSD–PCM Method. Journal of Chemical Theory and Computation, 2012, 8, 4494-4502. | 5.3 | 68 |
| 7 | A comparison between state-specific and linear-response formalisms for the calculation of vertical electronic transition energy in solution with the CCSD-PCM method. Journal of Chemical Physics, 2013, 139, 044116. | 3.0 | 61 |
| 8 | Exploring Potential Energy Surfaces of Electronic Excited States in Solution with the EOM-CCSD-PCM Method. Journal of Chemical Theory and Computation, 2012, 8, 5081-5091. | 5.3 | 50 |
| 9 | Vertical Electronic Excitations in Solution with the EOM-CCSD Method Combined with a Polarizable Explicit/Implicit Solvent Model. Journal of Chemical Theory and Computation, 2013, 9, 3035-3042. | 5.3 | 48 |
| 10 | Electronic excitation energies in solution at equation of motion CCSD level within a state specific polarizable continuum model approach. Journal of Chemical Physics, 2010, 132, 084102. | 3.0 | 47 |
| 11 | Large Solvation Effect in the Optical Rotatory Dispersion of Norbornenone. Angewandte Chemie - International Edition, 2014, 53, 1386-1389. | 13.8 | 46 |
| 12 | Assessment of low-scaling approximations to the equation of motion coupled-cluster singles and doubles equations. Journal of Chemical Physics, 2014, 141, 164116. | 3.0 | 45 |
| 13 | Solvent polarity scales revisited: a ZINDO-PCM study of the solvatochromism of betaine-30. Molecular Physics, 2006, 104, 875-887. | 1.7 | 43 |
| 14 | CCSD-PCM: Improving upon the reference reaction field approximation at no cost. Journal of Chemical Physics, 2011, 135, 074113. | 3.0 | 42 |
| 15 | Triggering Emission with the Helical Turn in Thiadiazoleâ€Helicenes. Chemistry - A European Journal, 2017, 23, 437-446. | 3.3 | 42 |
| 16 | Coupled Cluster Calculations in Solution with the Polarizable Continuum Model of Solvation. Journal of Physical Chemistry Letters, 2010, 1, 2369-2373. | 4.6 | 41 |
| 17 | On the difference between the transition properties calculated with linear response- and equation of motion-CCSD approaches. Journal of Chemical Physics, 2009, 131, 174104. | 3.0 | 35 |
| 18 | Insights on the Origin of the Unusually Large Specific Rotation of (1 <i>S</i> ,4 <i>S</i>)-Norbornenone. Journal of Physical Chemistry A, 2014, 118, 4863-4871. | 2.5 | 31 |

MARCO CARICATO

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Implementation of the CCSD-PCM linear response function for frequency dependent properties in solution: Application to polarizability and specific rotation. Journal of Chemical Physics, 2013, 139, 114103. | 3.0 | 29 |
| 20 | A corrected-linear response formalism for the calculation of electronic excitation energies of solvated molecules with the CCSD-PCM method. Computational and Theoretical Chemistry, 2014, 1040-1041, 99-105. | 2.5 | 29 |
| 21 | Towards the Accurate and Efficient Calculation of Optical Rotatory Dispersion Using Augmented Minimal Basis Sets. Chirality, 2013, 25, 606-616. | 2.6 | 26 |
| 22 | Accurate Assignments of Excited-State Resonance Raman Spectra: A Benchmark Study Combining Experiment and Theory. Journal of Physical Chemistry A, 2017, 121, 7937-7946. | 2.5 | 26 |
| 23 | Simulations of Ammonia Adsorption for the Characterization of Acid Sites in Metal-Doped Amorphous Silicates. Journal of Physical Chemistry C, 2017, 121, 22258-22267. | 3.1 | 25 |
| 24 | Probing Dynamics in Higher-Lying Electronic States with Resonance-Enhanced Femtosecond Stimulated Raman Spectroscopy. Journal of Physical Chemistry A, 2018, 122, 8308-8319. | 2.5 | 23 |
| 25 | An EOM-CCSD-PCM Benchmark for Electronic Excitation Energies of Solvated Molecules. Journal of Chemical Theory and Computation, 2017, 13, 117-124. | 5.3 | 22 |
| 26 | Orbital Analysis of Molecular Optical Activity Based on Configuration Rotatory Strength. Journal of Chemical Theory and Computation, 2015, 11, 1349-1353. | 5.3 | 21 |
| 27 | Surface Acidity Characterization of Metal-Doped Amorphous Silicates via Py-FTIR and ¹⁵ N NMR Simulations. Journal of Physical Chemistry C, 2020, 124, 15231-15240. | 3.1 | 20 |
| 28 | Brueckner doubles coupled cluster method with the polarizable continuum model of solvation. Journal of Chemical Physics, 2011, 134, 244113. | 3.0 | 19 |
| 29 | Coupled cluster theory with the polarizable continuum model of solvation. International Journal of Quantum Chemistry, 2019, 119, e25710. | 2.0 | 18 |
| 30 | Comparison of measured and predicted specific optical rotation in gas and solution phases: A test for the polarizable continuum model of solvation. Chirality, 2018, 30, 383-395. | 2.6 | 17 |
| 31 | Origin invariant optical rotation in the length dipole gauge without London atomic orbitals. Journal of Chemical Physics, 2020, 153, 151101. | 3.0 | 17 |
| 32 | A Comparison of Three Variants of the Generalized Davidson Algorithm for the Partial Diagonalization of Large Non-Hermitian Matrices. Journal of Chemical Theory and Computation, 2010, 6, 1966-1970. | 5.3 | 16 |
| 33 | Using the ONIOM hybrid method to apply equation of motion CCSD to larger systems: Benchmarking and comparison with time-dependent density functional theory, configuration interaction singles, and time-dependent Hartree–Fock. Journal of Chemical Physics, 2009, 131, 134105. | 3.0 | 15 |
| 34 | Silica Supported Molecular Palladium Catalyst for Selective Hydrodeoxygenation of Aromatic Compounds under Mild Conditions. ACS Catalysis, 2019, 9, 9060-9071. | 11.2 | 15 |
| 35 | Conformational Effects on Specific Rotation: A Theoretical Study Based on the $\hat{S}fk$ Method. Journal of Physical Chemistry A, 2015, 119, 8303-8310. | 2.5 | 14 |
| 36 | Correlation of Active Site Precursors and Olefin Metathesis Activity in W-Incorporated Silicates. ACS Catalysis, 2018, 8, 10437-10445. | 11.2 | 13 |

MARCO CARICATO

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Coupled Cluster Theory with Induced Dipole Polarizable Embedding for Ground and Excited States. Journal of Chemical Theory and Computation, 2019, 15, 4485-4496. | 5.3 | 13 |
| 38 | Compact Basis Sets for Optical Rotation Calculations. Journal of Chemical Theory and Computation, 2020, 16, 4408-4415. | 5.3 | 13 |
| 39 | Electronic Couplings for Resonance Energy Transfer from CCSD Calculations: From Isolated to Solvated Systems. Journal of Chemical Theory and Computation, 2015, 11, 5219-5228. | 5.3 | 12 |
| 40 | Point charge embedding for ONIOM excited states calculations. Journal of Chemical Physics, 2016, 145, 224109. | 3.0 | 12 |
| 41 | Multistate QM/QM Extrapolation of UV/Vis Absorption Spectra with Point Charge Embedding. Journal of Chemical Theory and Computation, 2020, 16, 4361-4372. | 5.3 | 12 |
| 42 | Full optical rotation tensor at coupled cluster with single and double excitations level in the modified velocity gauge. Chirality, 2021, 33, 303-314. | 2.6 | 11 |
| 43 | Origin invariant full optical rotation tensor in the length dipole gauge without London atomic orbitals. Journal of Chemical Physics, 2021, 155, 024118. | 3.0 | 11 |
| 44 | Predicted Properties of Active Catalyst Sites on Amorphous Silica: Impact of Silica Preoptimization Protocol. Industrial & Engineering Chemistry Research, 2021, 60, 12834-12846. | 3.7 | 11 |
| 45 | Link atom bond length effect in ONIOM excited state calculations. Journal of Chemical Physics, 2010, 133, 054104. | 3.0 | 10 |
| 46 | Oscillator Strengths in ONIOM Excited State Calculations. Journal of Chemical Theory and Computation, 2011, 7, 180-187. | 5.3 | 10 |
| 47 | Evaluation of Electronic Coupling in Solids from Ab Initio Periodic Boundary Condition Calculations: The Case of Pentacene Crystal and Bilayer Graphene. Journal of Physical Chemistry C, 2016, 120, 17939-17948. | 3.1 | 10 |
| 48 | Computational Multinuclear NMR Characterization of Metal-Doped Amorphous Silica Catalysts. Chemistry of Materials, 2018, 30, 7813-7822. | 6.7 | 10 |
| 49 | Femtosecond Stimulated Raman Scattering from Triplet Electronic States: Experimental and Theoretical Study of Resonance Enhancements. Journal of Physical Chemistry A, 2019, 123, 7720-7732. | 2.5 | 9 |
| 50 | Configuration Space Analysis of the Specific Rotation of Helicenes. Journal of Physical Chemistry A, 2019, 123, 4406-4418. | 2.5 | 9 |
| 51 | Enhanced Olefin Metathesis Performance of Tungsten and Niobium Incorporated Bimetallic Silicates: Evidence of Synergistic Effects. ChemCatChem, 2020, 12, 2004-2013. | 3.7 | 9 |
| 52 | Linear response coupled cluster theory with the polarizable continuum model within the singles approximation for the solvent response. Journal of Chemical Physics, 2018, 148, 134113. | 3.0 | 8 |
| 53 | Catalytic Nâ^'H Bond Activation and Breaking by a Wellâ€Defined Co ^{II} ₁ O ₄ Site of a Heterogeneous Catalyst. ChemCatChem, 2018, 10, 736-742. | 3.7 | 8 |
| 54 | Cluster Model Simulations of Metal-Doped Amorphous Silicates for Heterogeneous Catalysis. Journal of Physical Chemistry C, 2021, 125, 27509-27519. | 3.1 | 8 |

MARCO CARICATO

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 55 | How the Number of Layers and Relative Position Modulate the Interlayer Electron Transfer in ï€-Stacked 2D Materials. Journal of Physical Chemistry Letters, 2017, 8, 1365-1370. | 4.6 | 7 |
| 56 | Helical Chains of Diatomic Molecules as a Model for Solid-State Optical Rotation. Journal of Physical Chemistry C, 2019, 123, 4329-4340. | 3.1 | 7 |
| 57 | On the Discrepancy between Experimental and Calculated Raman Intensities for Conjugated Phenyl and Thiophene Derivatives. Journal of Physical Chemistry A, 2020, 124, 4678-4689. | 2.5 | 7 |
| 58 | Origin invariant electronic circular dichroism in the length dipole gauge without London atomic orbitals. Journal of Chemical Physics, 2022, 156, 154114. | 3.0 | 7 |
| 59 | Electronic Coupling for Donor-Bridge-Acceptor Systems with a Bridge-Overlap Approach. Journal of Chemical Theory and Computation, 2017, 13, 4154-4161. | 5.3 | 6 |
| 60 | A Benchmark Study of Electronic Couplings in Donor–Bridge–Acceptor Systems with the FMR-B Method. Journal of Chemical Theory and Computation, 2018, 14, 2007-2016. | 5.3 | 6 |
| 61 | CCSDâ€PCM Excited State Energy Gradients with the Linear Response Singles Approximation to Study the Photochemistry of Molecules in Solution. ChemPhotoChem, 2019, 3, 747-754. | 3.0 | 6 |
| 62 | Benchmark Study of Ground-State Raman Spectra in Conjugated Molecules. Journal of Chemical Theory and Computation, 2020, 16, 612-620. | 5.3 | 6 |
| 63 | Coupled cluster theory in the condensed phase within the singlesâ€ī density scheme for the environment response. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2020, 10, e1463. | 14.6 | 6 |
| 64 | Multi-state extrapolation of UV/Vis absorption spectra with QM/QM hybrid methods. Journal of Chemical Physics, 2016, 144, 184102. | 3.0 | 5 |
| 65 | Basis Set Dependence of Optical Rotation Calculations with Different Choices of Gauge. Journal of Physical Chemistry A, 2022, 126, 1861-1870. | 2.5 | 5 |
| 66 | Gauge Dependence of the $\langle i \rangle \hat{Sl} f \langle i \rangle$ Molecular Orbital Space Decomposition of Optical Rotation. Journal of Physical Chemistry A, 2021, 125, 4976-4985. | 2.5 | 4 |
| 67 | A molecular orbital selection approach for fast calculations of specific rotation with density functional theory. Chirality, 2020, 32, 243-253. | 2.6 | 3 |