

Mariona Sodupe

List of Publications by Year in descending order

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times ranked

7124
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Silica Surface Features and Their Role in the Adsorption of Biomolecules: Computational Modeling and Experiments. <i>Chemical Reviews</i> , 2013, 113, 4216-4313. | 47.7 | 508 |
| 2 | Ground State of the (H ₂ O) ₂ ⁺ Radical Cation: DFT versus Post-Hartree-Fock Methods. <i>Journal of Physical Chemistry A</i> , 1999, 103, 166-170. | 2.5 | 232 |
| 3 | A theoretical study of the positive and dipositive ions of M(NH ₃) _n and M(H ₂ O) _n for M=Mg, Ca, or Sr. <i>Journal of Chemical Physics</i> , 1992, 96, 4453-4463. | 3.0 | 206 |
| 4 | Single versus Double Proton-Transfer Reactions in Watson-Crick Base Pair Radical Cations. A Theoretical Study. <i>Journal of the American Chemical Society</i> , 1998, 120, 8159-8167. | 13.7 | 203 |
| 5 | Realistic Models of Hydroxylated Amorphous Silica Surfaces and MCM-41 Mesoporous Material Simulated by Large-scale Periodic B3LYP Calculations. <i>Advanced Materials</i> , 2008, 20, 4579-4583. | 21.0 | 199 |
| 6 | The Different Nature of Bonding in Cu ⁺ -Glycine and Cu ²⁺ -Glycine. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2310-2317. | 2.6 | 198 |
| 7 | Design, Selection, and Characterization of Thioflavin-Based Intercalation Compounds with Metal Chelating Properties for Application in Alzheimer's Disease. <i>Journal of the American Chemical Society</i> , 2009, 131, 1436-1451. | 13.7 | 196 |
| 8 | Small molecule inhibits β -synuclein aggregation, disrupts amyloid fibrils, and prevents degeneration of dopaminergic neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10481-10486. | 7.1 | 166 |
| 9 | Atomic reference energies for density functional calculations. <i>Chemical Physics Letters</i> , 1997, 265, 481-489. | 2.6 | 154 |
| 10 | Theoretical Study of M ⁺ -CO ₂ and OM+CO Systems for First Transition Row Metal Atoms. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7854-7859. | 2.5 | 112 |
| 11 | Coordination of Cu ⁺ Ions to Zeolite Frameworks Strongly Enhances Their Ability To Bind NO ₂ . An Ab-Initio Density Functional Study. <i>Journal of the American Chemical Society</i> , 1998, 120, 1545-1551. | 13.7 | 109 |
| 12 | A Quantum Chemical Study of Cu ²⁺ Interacting with Guanine-Cytosine Base Pair. Electrostatic and Oxidative Effects on Intermolecular Proton-Transfer Processes. <i>Journal of Physical Chemistry A</i> , 2004, 108, 333-341. | 2.5 | 106 |
| 13 | Affinity Scale for the Interaction of Amino Acids with Silica Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5741-5750. | 3.1 | 105 |
| 14 | Theoretical study of the bonding of the first-row transition-metal positive ions to ethylene. <i>The Journal of Physical Chemistry</i> , 1992, 96, 2118-2122. | 2.9 | 101 |
| 15 | Theoretical study of the bonding of the first- and second-row transition-metal positive ions to acetylene. <i>The Journal of Physical Chemistry</i> , 1991, 95, 8640-8645. | 2.9 | 100 |
| 16 | Adsorption of NH ₃ and H ₂ O in Acidic Chabazite. Comparison of ONIOM Approach with Periodic Calculations. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3539-3545. | 2.6 | 96 |
| 17 | Can Cu ⁺ -Exchanged Zeolites Store Molecular Hydrogen? An Ab-Initio Periodic Study Compared with Low-Temperature FTIR. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8278-8286. | 2.6 | 91 |
| 18 | Theoretical study of one and two ammonia molecules bound to the first-row transition metal ions. <i>The Journal of Physical Chemistry</i> , 1991, 95, 10677-10681. | 2.9 | 90 |

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| 19 | Ab initio molecular dynamics study of the hydration of Li ⁺ , Na ⁺ and K ⁺ in a montmorillonite model. Influence of isomorphic substitution. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 688-697. | 2.8 | 90 |
| 20 | Ground and Low-Lying States of Cu ²⁺ ·H ₂ O. A Difficult Case for Density Functional Methods. <i>Journal of Physical Chemistry A</i> , 2004, 108, 6072-6078. | 2.5 | 85 |
| 21 | Differences in the Activation Processes of Phosphine-Containing and Grubbs's Hoveyda-Type Alkene Metathesis Catalysts. <i>Organometallics</i> , 2012, 31, 4203-4215. | 2.3 | 85 |
| 22 | Protonation of glycine, serine and cysteine. Conformations, proton affinities and intrinsic basicities. <i>Computational and Theoretical Chemistry</i> , 2001, 537, 307-318. | 1.5 | 83 |
| 23 | Interaction of Glycine with Isolated Hydroxyl Groups at the Silica Surface: First Principles B3LYP Periodic Simulation. <i>Langmuir</i> , 2006, 22, 6593-6604. | 3.5 | 83 |
| 24 | DFT Mechanistic Study on Diene Metathesis Catalyzed by Ru-Based Grubbs's Hoveyda-Type Carbenes: The Key Role of π-Back Electron Density Delocalization in the Hoveyda Ligand. <i>Chemistry - A European Journal</i> , 2010, 16, 7331-7343. | 3.3 | 78 |
| 25 | Crystal structure of thioflavin-T and its binding to amyloid fibrils: insights at the molecular level. <i>Chemical Communications</i> , 2010, 46, 1156. | 4.1 | 78 |
| 26 | Cation-π Interactions and Oxidative Effects on Cu ⁺ and Cu ²⁺ Binding to Phe, Tyr, Trp, and His Amino Acids in the Gas Phase. Insights from First-Principles Calculations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24189-24199. | 2.6 | 77 |
| 27 | Does Silica Surface Catalyse Peptide Bond Formation? New Insights from First-Principles Calculations. <i>ChemPhysChem</i> , 2006, 7, 157-163. | 2.1 | 77 |
| 28 | Deep-space glycine formation via Strecker-type reactions activated by ice water dust mantles. A computational approach. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5285. | 2.8 | 77 |
| 29 | Theoretical Study of the Ionization of Phenol·Water and Phenol·Ammonia Hydrogen-Bonded Complexes. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9142-9151. | 2.5 | 76 |
| 30 | Aluminosilicate Surfaces as Promoters for Peptide Bond Formation: An Assessment of Bernal's Hypothesis by ab Initio Methods. <i>Journal of the American Chemical Society</i> , 2007, 129, 8333-8344. | 13.7 | 75 |
| 31 | Theoretical Study of the Adsorption of RNA/DNA Bases on the External Surfaces of Na ⁺ -Montmorillonite. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13741-13749. | 3.1 | 72 |
| 32 | Gas-Phase Reactivity of Ni ⁺ with Glycine. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5340-5347. | 2.5 | 66 |
| 33 | Structure and fragmentation of glycine, alanine, serine and cysteine radical cations. A theoretical study. <i>Computational and Theoretical Chemistry</i> , 2005, 727, 191-197. | 1.5 | 63 |
| 34 | Three Dimensional Models of Cu ²⁺ -Al ²⁺ (16) Complexes from Computational Approaches. <i>Journal of the American Chemical Society</i> , 2011, 133, 15008-15014. | 13.7 | 61 |
| 35 | Gas Phase Intramolecular Proton Transfer in Cationized Glycine and Chlorine Substituted Derivatives (M ⁺ -Gly, M=Na ⁺ , Mg ²⁺ , Cu ⁺ , Ni ⁺ , and Cu ²⁺): Existence of Zwitterionic Structures?. <i>Chemistry - A European Journal</i> , 2000, 6, 4393-4399. | 3.3 | 60 |
| 36 | A theoretical study of Mg(CO ₂) _n and Sr(CO ₂) _n for n = 1 and 2 and Mg ₂ CO ₂ . <i>Chemical Physics Letters</i> , 1992, 192, 185-194. | 2.6 | 59 |

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| 37 | Intramolecular Proton Transfer in Glycine Radical Cation. <i>Journal of Physical Chemistry A</i> , 2000, 104, 1256-1261. | 2.5 | 59 |
| 38 | Effect of Counterpoise Correction on the Geometries and Vibrational Frequencies of Hydrogen Bonded Systems. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4359-4364. | 2.5 | 57 |
| 39 | Mechanistic Insights into Ring-Closing Enyne Metathesis with the Second-Generation Grubbs-Hoveyda Catalyst: A DFT Study. <i>Chemistry - A European Journal</i> , 2011, 17, 7506-7520. | 3.3 | 56 |
| 40 | Thioflavin-T excimer formation upon interaction with amyloid fibers. <i>Chemical Communications</i> , 2013, 49, 5745. | 4.1 | 56 |
| 41 | A Theoretical Study of the Endo/Exo Selectivity of the Diels-Alder Reaction between Cyclopropene and Butadiene. <i>Journal of the American Chemical Society</i> , 1997, 119, 4232-4238. | 13.7 | 55 |
| 42 | Computational calculations of pKa values of imidazole in Cu(ii) complexes of biological relevance. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7852. | 2.8 | 55 |
| 43 | H-Bond Features of Fully Hydroxylated Surfaces of Crystalline Silica Polymorphs: A Periodic B3LYP Study. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17876-17884. | 3.1 | 54 |
| 44 | Determination of the structure and bond energies of nickel dioxide and copper dioxide. <i>The Journal of Physical Chemistry</i> , 1993, 97, 856-859. | 2.9 | 53 |
| 45 | Solvent-assisted catalysis in the enolization of acetaldehyde radical cation. <i>Chemical Physics Letters</i> , 2001, 334, 112-118. | 2.6 | 52 |
| 46 | Cu ²⁺ Cation Coordination to Adenine-Thymine Base Pair. Effects on Intermolecular Proton-Transfer Processes. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4817-4825. | 2.6 | 52 |
| 47 | Theoretical Study of the Ionization of the H ₂ O-H ₂ O, NH ₃ -H ₂ O, and FH-H ₂ O Hydrogen-Bonded Molecules. <i>Journal of the American Chemical Society</i> , 1994, 116, 8249-8258. | 13.7 | 51 |
| 48 | COMPUTATIONAL STUDY OF INTERSTELLAR GLYCINE FORMATION OCCURRING AT RADICAL SURFACES OF WATER-ICE DUST PARTICLES. <i>Astrophysical Journal</i> , 2012, 754, 24. | 4.5 | 51 |
| 49 | How Does Silica Catalyze the Amide Bond Formation under Dry Conditions? Role of Specific Surface Silanol Pairs. <i>ACS Catalysis</i> , 2018, 8, 4558-4568. | 11.2 | 51 |
| 50 | A theoretical study of the spectroscopy of MgH ₂ O ⁺ and MgCH ₃ OH ⁺ . <i>Chemical Physics Letters</i> , 1992, 195, 494-499. | 2.6 | 50 |
| 51 | The calculation of the vibrational frequencies of CuCO ⁺ , NiCO and CuCH ₃ . <i>Chemical Physics Letters</i> , 1992, 189, 266-272. | 2.6 | 49 |
| 52 | Isomerization versus Fragmentation of Glycine Radical Cation in Gas Phase. <i>Journal of Physical Chemistry A</i> , 2002, 106, 5697-5702. | 2.5 | 49 |
| 53 | Electron hole formation in acidic zeolite catalysts. <i>Journal of Chemical Physics</i> , 2004, 121, 6034-6041. | 3.0 | 49 |
| 54 | pH-Responsive Self-Assembly of Amyloid Fibrils for Dual Hydrolase-Oxidase Reactions. <i>ACS Catalysis</i> , 2021, 11, 595-607. | 11.2 | 49 |

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| 55 | Theoretical determination of the alkali-metal superoxide bond energies. <i>Chemical Physics Letters</i> , 1992, 195, 200-206. | 2.6 | 48 |
| 56 | Hydrogen Atom or Proton Transfer in Neutral and Single Positive Ions of Salicylic Acid and Related Compounds. <i>Journal of the American Chemical Society</i> , 1999, 121, 8882-8890. | 13.7 | 48 |
| 57 | Effects of protonation on proton-transfer processes in guanine?cytosine Watson?Crick base pairs. <i>Theoretical Chemistry Accounts</i> , 2004, 112, 318. | 1.4 | 48 |
| 58 | Visibleâ€Light Photocatalytic Intramolecular Cyclopropane Ring Expansion. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7826-7830. | 13.8 | 47 |
| 59 | Comparison of density functional and coupled cluster methods in the study of metalâ€ligand systems: Scâ€CO ₂ and Cuâ€NO ₂ . <i>Journal of Chemical Physics</i> , 1996, 105, 9966-9971. | 3.0 | 46 |
| 60 | KetoâˆEnol Isomerization of Acetaldehyde in HZSM5. A Theoretical Study Using the ONIOM2 Method. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10220-10226. | 2.6 | 46 |
| 61 | Coordination Properties of the Oxime Analogue of Glycine to Cu(II). <i>Journal of Physical Chemistry A</i> , 2005, 109, 5668-5676. | 2.5 | 46 |
| 62 | Role of Mineral Surfaces in Prebiotic Chemical Evolution. In <i>Silico Quantum Mechanical Studies</i> . <i>Life</i> , 2019, 9, 10. | 2.4 | 44 |
| 63 | The Role of Exact Exchange in the Description of Cu ²⁺ (H ₂ O) _n (n = 1âˆ6) Complexes by Means of DFT Methods. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10857-10863. | 2.5 | 43 |
| 64 | Cooperative effects at waterâ€crystalline silica interfaces strengthen surface silanol hydrogen bonding. An ab initio molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10507. | 2.8 | 43 |
| 65 | Alâ€ligand binding energies. <i>Chemical Physics Letters</i> , 1991, 181, 321-326. | 2.6 | 42 |
| 66 | Interaction of Co ⁺ and Co ²⁺ with Glycine. A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 224-230. | 2.5 | 42 |
| 67 | Influence of N7 Protonation on the Mechanism of the N-Glycosidic Bond Hydrolysis in 2â€-Deoxyguanosine. A Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6071-6077. | 2.6 | 42 |
| 68 | On the Bonding in Sc-CO ₂ . <i>The Journal of Physical Chemistry</i> , 1995, 99, 8567-8571. | 2.9 | 41 |
| 69 | Influence of the Side Chain in the Structure and Fragmentation of Amino Acids Radical Cations. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 2210-2220. | 5.3 | 41 |
| 70 | Theoretical study of the adsorption of DNA bases on the acidic external surface of montmorillonite. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 945-954. | 2.8 | 39 |
| 71 | Palladium Nanoparticles Entrapped in Heavily Fluorinated Compounds. <i>Chemistry of Materials</i> , 2006, 18, 716-722. | 6.7 | 38 |
| 72 | Diels-Alder cycloadditions of electron-rich, electron-deficient, and push-pull dienes with cyclic dienophiles: high-pressure-induced reactions and theoretical calculations. <i>Journal of Organic Chemistry</i> , 1991, 56, 4135-4141. | 3.2 | 37 |

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| 73 | Effects of protonation on proton transfer processes in Watson-Crick adenine-thymine base pair. <i>Theoretical Chemistry Accounts</i> , 2007, 118, 113-121. | 1.4 | 36 |
| 74 | Theoretical study of the alkaline-earth metal superoxides BeO ₂ through SrO ₂ . <i>The Journal of Physical Chemistry</i> , 1992, 96, 9259-9264. | 2.9 | 35 |
| 75 | Peptide bond formation activated by the interplay of Lewis and Brønsted catalysts. <i>Chemical Physics Letters</i> , 2005, 408, 295-301. | 2.6 | 35 |
| 76 | On the Bonding of First-Row Transition Metal Cations to Guanine and Adenine Nucleobases. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9823-9829. | 2.5 | 34 |
| 77 | Binding of Thioflavin T and Related Probes to Polymorphic Models of Amyloid- β Fibrils. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8926-8934. | 2.6 | 34 |
| 78 | Metal-Mediated Deamination of Cytosine: Experiment and DFT Calculations. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5396-5399. | 13.8 | 33 |
| 79 | Coordination properties of glycylglycine to Cu ⁺ , Ni ⁺ and Co ⁺ . Influence of metal cation electronic configuration. <i>New Journal of Chemistry</i> , 2005, 29, 1585. | 2.8 | 32 |
| 80 | Hydrogen bonding and aromaticity in the guanine-cytosine base pair interacting with metal cations (M ⁿ⁺ =Cu ⁺ , Ca ²⁺ and Cu ²⁺). <i>Molecular Physics</i> , 2005, 103, 163-173. | 1.7 | 32 |
| 81 | Is the Peptide Bond Formation Activated by Cu ²⁺ Interactions? Insights from Density Functional Calculations. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5740-5747. | 2.6 | 32 |
| 82 | Toward Olefin Metathesis with Iron Carbene Complexes: Benefits of Tridentate σ -Donating Ligands. <i>Organometallics</i> , 2016, 35, 3914-3923. | 2.3 | 32 |
| 83 | <i>exo</i> / <i>endo</i> Selectivity of the Ring-Closing Enyne Metathesis Catalyzed by Second Generation Ru-Based Catalysts. Influence of Reactant Substituents. <i>ACS Catalysis</i> , 2013, 3, 206-218. | 11.2 | 31 |
| 84 | DFT Study on the Relative Stabilities of Substituted Ruthenacyclobutane Intermediates Involved in Olefin Cross-Metathesis Reactions and Their Interconversion Pathways. <i>Organometallics</i> , 2014, 33, 6065-6075. | 2.3 | 31 |
| 85 | Spin-forbidden N ₂ O dissociation in Cu-ZSM-5. <i>Chemical Physics Letters</i> , 2003, 368, 242-246. | 2.6 | 30 |
| 86 | Physisorption vs. chemisorption of probe molecules on boron nitride nanomaterials: the effect of surface curvature. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13190. | 2.8 | 30 |
| 87 | DFT Study on the Recovery of Hoveyda-Grubbs Type Catalyst Precursors in Enyne and Diene Ring-Closing Metathesis. <i>Chemistry - A European Journal</i> , 2013, 19, 14553-14565. | 3.3 | 30 |
| 88 | 3D Structures and Redox Potentials of Cu ²⁺ -Al ²⁺ (Al ²⁺) Complexes at Different pH: A Computational Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4840-4850. | 2.6 | 30 |
| 89 | Amide and Peptide Bond Formation: Interplay between Strained Ring Defects and Silanol Groups at Amorphous Silica Surfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24817-24826. | 3.1 | 30 |
| 90 | A study of the ground and low-lying states of MgCH ₄ . <i>Chemical Physics Letters</i> , 1993, 214, 489-494. | 2.6 | 28 |

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| 91 | Theoretical Study of the Ionization of the H ₂ S-H ₂ S, PH ₃ -H ₂ S, and ClH-H ₂ S Hydrogen Bonded Molecules. <i>Journal of the American Chemical Society</i> , 1995, 117, 8416-8421. | 13.7 | 28 |
| 92 | Interstellar H adsorption and H ₂ formation on the crystalline (010) forsterite surface: a B3LYP-D2* periodic study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17447-17457. | 2.8 | 28 |
| 93 | Canonical, Deprotonated, or Zwitterionic? A Computational Study on Amino Acid Interaction with the TiO ₂ (101) Anatase Surface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14156-14165. | 3.1 | 28 |
| 94 | Water Adsorption on MO ₂ (M = Ti, Ru, and Ir) Surfaces. Importance of Octahedral Distortion and Cooperative Effects. <i>ACS Omega</i> , 2019, 4, 2989-2999. | 3.5 | 28 |
| 95 | Periodic DFT Study of Radical Species on Crystalline Silica Surfaces. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16430-16438. | 3.1 | 27 |
| 96 | Structures and Stabilities of Fe ^{2+/3+} Complexes Relevant to Alzheimer's Disease: An ab Initio Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12523-12530. | 2.5 | 27 |
| 97 | Water-catalyzed isomerization of the glycine radical cation. From hydrogen-atom transfer to proton-transport catalysis. <i>Theoretical Chemistry Accounts</i> , 2004, 111, 217-222. | 1.4 | 26 |
| 98 | Effects of ionization on N-glycylglycine peptide: Influence of intramolecular hydrogen bonds. <i>Journal of Chemical Physics</i> , 2006, 124, 154306. | 3.0 | 26 |
| 99 | Reactivity of Metal Carbenes with Olefins: Theoretical Insights on the Carbene Electronic Structure and Cyclopropanation Reaction Mechanism. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1702-1712. | 2.5 | 26 |
| 100 | A study of the ground and low-lying states of MgC ₂ H ₂ ⁺ and MgC ₂ H ₄ ⁺ . <i>Chemical Physics</i> , 1994, 185, 163-171. | 1.9 | 25 |
| 101 | Theoretical Study of the Structure of ZCu(NO ₂)(NO). A Proposed Intermediate in the NO _x Decomposition by Cu ⁺ /ZSM-5. <i>Journal of Physical Chemistry A</i> , 2000, 104, 3225-3230. | 2.5 | 25 |
| 102 | On the NO Decomposition by Cu ⁺ /ZSM-5 through the ZCu(NO ₂)(NO) or ZCu(N ₂ O ₃) Intermediates. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1372-1379. | 2.6 | 25 |
| 103 | Do H-Bond Features of Silica Surfaces Affect the H ₂ O and NH ₃ Adsorption? Insights from Periodic B3LYP Calculations. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11221-11228. | 2.5 | 25 |
| 104 | Ab initio study of the ground and low-lying states of FeH. <i>Journal of Chemical Physics</i> , 1990, 92, 2478-2480. | 3.0 | 24 |
| 105 | Effects of Ionization, Metal Cationization and Protonation on 2'-Deoxyguanosine: Changes on Sugar Puckering and Stability of the N-Glycosidic Bond. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5767-5772. | 2.6 | 24 |
| 106 | Gas phase reactivity of Cu ⁺ -aromatic amino acids. <i>International Journal of Mass Spectrometry</i> , 2006, 257, 60-69. | 1.5 | 24 |
| 107 | Formation versus Hydrolysis of the Peptide Bond from a Quantum-mechanical Viewpoint: The Role of Mineral Surfaces and Implications for the Origin of Life. <i>International Journal of Molecular Sciences</i> , 2009, 10, 746-760. | 4.1 | 24 |
| 108 | Disaggregation-induced fluorescence enhancement of NIAD-4 for the optical imaging of amyloid-β fibrils. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19718-19725. | 2.8 | 24 |

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| 109 | Dioxygen activation in the Cu ^{II} amyloid β complex. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27270-27274. | 2.8 | 24 |
| 110 | Drastic Effect of the Peptide Sequence on the Copper ^I Binding Properties of Tripeptides and the Electrochemical Behaviour of Their Copper(II) Complexes. <i>Chemistry - A European Journal</i> , 2018, 24, 5153-5162. | 3.3 | 24 |
| 111 | Triplet ($\tilde{\Gamma}, \tilde{\Gamma}^*$) Reactivity of the Guanine ⁺ Cytosine DNA Base Pair: A Benign Deactivation versus Double Tautomerization via Intermolecular Hydrogen Transfer. <i>Journal of the American Chemical Society</i> , 2004, 126, 12770-12771. | 13.7 | 23 |
| 112 | Relevance of silicate surface morphology in interstellar H ₂ formation. Insights from quantum chemical calculations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 914-924. | 4.4 | 23 |
| 113 | Thioflavin-based molecular probes for application in Alzheimer's disease: from in silico to in vitro models. <i>Metallomics</i> , 2015, 7, 83-92. | 2.4 | 23 |
| 114 | When the Surface Matters: Prebiotic Peptide ^I Bond Formation on the TiO ₂ (101) Anatase Surface through Periodic DFT ^{D2} Simulations. <i>Chemistry - A European Journal</i> , 2018, 24, 16292-16301. | 3.3 | 23 |
| 115 | Chemistry of the scandium-benzynes ion in the gas phase. <i>Inorganic Chemistry</i> , 1991, 30, 3822-3829. | 4.0 | 22 |
| 116 | Hydrogen Bond vs Proton Transfer in HZSM5 Zeolite. A Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19301-19308. | 2.6 | 22 |
| 117 | Does Fe ²⁺ in olivine-based interstellar grains play any role in the formation of H ₂ ? Atomistic insights from DFT periodic simulations. <i>Chemical Communications</i> , 2016, 52, 6873-6876. | 4.1 | 22 |
| 118 | Theoretical study of the bonding of NO ₂ to Cu and Ag. <i>Journal of Chemical Physics</i> , 1995, 103, 9738-9743. | 3.0 | 21 |
| 119 | Density functional cluster model study of bonding and coordination modes of CO ₂ on Pd(111). <i>Surface Science</i> , 1999, 431, 208-219. | 1.9 | 21 |
| 120 | On the electronic structure of second generation Hoveyda ^I Grubbs alkene metathesis precursors. <i>Computational and Theoretical Chemistry</i> , 2012, 996, 57-67. | 2.5 | 21 |
| 121 | Elucidating the 3D structures of Al(ⁱⁱⁱ) ^I complexes: a template free strategy based on the pre-organization hypothesis. <i>Chemical Science</i> , 2017, 8, 5041-5049. | 7.4 | 21 |
| 122 | Origin of the Enhanced Interaction of Molecular Hydrogen with Extraframework Cu ^I and FeO ^I Cations in Zeolite Hosts. A Periodic DFT Study. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13926-13934. | 3.1 | 20 |
| 123 | Ab Initio Design of Chelating Ligands Relevant to Alzheimer TM s Disease: Influence of Metalloaromaticity. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12659-12666. | 2.5 | 20 |
| 124 | B3LYP Periodic Study of the Physicochemical Properties of the Nonpolar (010) Mg-Pure and Fe-Containing Olivine Surfaces. <i>Journal of Physical Chemistry A</i> , 2014, 118, 5866-5875. | 2.5 | 20 |
| 125 | Ground and low ^I ying states of FeH ⁺ as derived from ab initio self ^I consistent field and configuration interaction calculations. <i>Journal of Chemical Physics</i> , 1989, 90, 6436-6442. | 3.0 | 19 |
| 126 | Binding Properties of Cu ²⁺ -(glycyl) _n glycine Complexes ($n = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100$) | 2.5 | 19 |

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