

# Mariona Sodupe

## List of Publications by Citations

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|--------------------|-------------------------|----------------|-----------------|
| 204<br>papers      | 7,284<br>citations      | 48<br>h-index  | 74<br>g-index   |
| 214<br>ext. papers | 7,773<br>ext. citations | 5.3<br>avg, IF | 5.87<br>L-index |

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 204 | Silica surface features and their role in the adsorption of biomolecules: computational modeling and experiments. <i>Chemical Reviews</i> , <b>2013</b> , 113, 4216-313  | 68.1 | 414       |
| 203 | Ground State of the (H <sub>2</sub> O) <sub>2</sub> <sup>+</sup> Radical Cation: DFT versus Post-Hartree-Fock Methods. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 166-170   | 2.8  | 223       |
| 202 | A theoretical study of the positive and dipositive ions of M(NH <sub>3</sub> ) <sub>n</sub> and M(H <sub>2</sub> O) <sub>n</sub> for M=Mg, Ca, or Sr. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 4453-4463                                       | 3.9  | 199       |
| 201 | Single versus Double Proton-Transfer Reactions in Watson-Crick Base Pair Radical Cations. A Theoretical Study. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 8159-8167  | 16.4 | 195       |
| 200 | The Different Nature of Bonding in Cu <sup>+</sup> -Glycine and Cu <sup>2+</sup> -Glycine. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 2310-2317   | 3.4  | 188       |
| 199 | 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> , <b>2009</b> , 131, 1436-51                     | 16.4 | 179       |
| 198 | Realistic Models of Hydroxylated Amorphous Silica Surfaces and MCM-41 Mesoporous Material Simulated by Large-scale Periodic B3LYP Calculations. <i>Advanced Materials</i> , <b>2008</b> , 20, 4579-4583  | 24   | 160       |
| 197 | Atomic reference energies for density functional calculations. <i>Chemical Physics Letters</i> , <b>1997</b> , 265, 481-489  | 3.5  | 146       |
| 196 | Theoretical Study of M+O <sub>2</sub> and OM+CO Systems for First Transition Row Metal Atoms. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 7854-7859  | 2.8  | 103       |
| 195 | A Quantum Chemical Study of Cu <sup>2+</sup> Interacting with Guanine-Cytosine Base Pair. Electrostatic and Oxidative Effects on Intermolecular Proton-Transfer Processes. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 333-341               | 2.8  | 99        |
| 194 | Theoretical study of the bonding of the first-row transition-metal positive ions to ethylene. <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 2118-2122   |      | 99        |
| 193 | Small molecule inhibits $\beta$ -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> , <b>2018</b> , 115, 10481-10486 | 11.5 | 99        |
| 192 | Affinity Scale for the Interaction of Amino Acids with Silica Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5741-5750  | 3.8  | 95        |
| 191 | Theoretical study of the bonding of the first- and second-row transition-metal positive ions to acetylene. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 8640-8645  |      | 93        |
| 190 | Coordination of Cu <sup>+</sup> Ions to Zeolite Frameworks Strongly Enhances Their Ability To Bind NO <sub>2</sub> . An ab Initio Density Functional Study. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 1545-1551                   | 16.4 | 89        |
| 189 | Adsorption of NH <sub>3</sub> and H <sub>2</sub> O in acidic chabazite. Comparison of ONIOM approach with periodic calculations. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 3539-45   | 3.4  | 88        |
| 188 | Theoretical study of one and two ammonia molecules bound to the first-row transition metal ions. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 10677-10681  |      | 86        |

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| 187 | Can Cu <sup>++</sup> -Exchanged Zeolites Store Molecular Hydrogen? An Ab-Initio Periodic Study Compared with Low-Temperature FTIR. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 8278-8286  | 3.4  | 83 |
| 186 | Ground and Low-Lying States of Cu <sub>2</sub> H <sub>2</sub> O. A Difficult Case for Density Functional Methods. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 6072-6078   | 2.8  | 79 |
| 185 | Protonation of glycine, serine and cysteine. Conformations, proton affinities and intrinsic basicities. <i>Computational and Theoretical Chemistry</i> , <b>2001</b> , 537, 307-318   |      | 79 |
| 184 | Differences in the Activation Processes of Phosphine-Containing and Grubbs-Hoveyda-Type Alkene Metathesis Catalysts. <i>Organometallics</i> , <b>2012</b> , 31, 4203-4215   | 3.8  | 77 |
| 183 | DFT mechanistic study on diene metathesis catalyzed by Ru-based Grubbs-Hoveyda-type carbenes: the key role of pi-electron density delocalization in the Hoveyda ligand. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 7331-43   | 4.8  | 77 |
| 182 | Interaction of glycine with isolated hydroxyl groups at the silica surface: first principles B3LYP periodic simulation. <i>Langmuir</i> , <b>2006</b> , 22, 6593-604  | 4    | 77 |
| 181 | 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> , <b>2010</b> , 12, 688-97  | 3.6  | 76 |
| 180 | Theoretical Study of the Ionization of Phenol-Water and Phenol-Ammonia Hydrogen-Bonded Complexes. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 9142-9151   | 2.8  | 74 |
| 179 | Cation-pi Interactions and oxidative effects on Cu <sup>+</sup> and Cu <sup>2+</sup> 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> , <b>2006</b> , 110, 24189-99  | 3.4  | 73 |
| 178 | Does silica surface catalyse peptide bond formation? New insights from first-principles calculations. <i>ChemPhysChem</i> , <b>2006</b> , 7, 157-63   | 3.2  | 70 |
| 177 | Theoretical Study of the Adsorption of RNA/DNA Bases on the External Surfaces of Na <sup>+</sup> -Montmorillonite. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13741-13749  | 3.8  | 66 |
| 176 | Gas-Phase Reactivity of Ni <sup>+</sup> with Glycine. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 5340-5347   | 2.8  | 66 |
| 175 | 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> , <b>2007</b> , 129, 8333-44   | 16.4 | 64 |
| 174 | Crystal structure of thioflavin-T and its binding to amyloid fibrils: insights at the molecular level. <i>Chemical Communications</i> , <b>2010</b> , 46, 1156-8  | 5.8  | 62 |
| 173 | Deep-space glycine formation via Strecker-type reactions activated by ice water dust mantles. A computational approach. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 5285-94  | 3.6  | 60 |
| 172 | Structure and fragmentation of glycine, alanine, serine and cysteine radical cations. A theoretical study. <i>Computational and Theoretical Chemistry</i> , <b>2005</b> , 727, 191-197  |      | 59 |
| 171 | A theoretical study of Mg(CO <sub>2</sub> ) <sub>n</sub> and Sr(CO <sub>2</sub> ) <sub>n</sub> for n = 1 and 2 and Mg <sub>2</sub> CO <sub>2</sub> . <i>Chemical Physics Letters</i> , <b>1992</b> , 192, 185-194   | 2.5  | 59 |
| 170 | Gas phase intramolecular proton transfer in cationized glycine and chlorine substituted derivatives (M-Gly, M = Na <sup>+</sup> , Mg <sup>2+</sup> , Cu <sup>+</sup> , Ni <sup>+</sup> , and Cu <sup>2+</sup> ): existence of Zwitterionic structures?. <i>Chemistry - A European Journal</i> , <b>2000</b> , 6, 4393-9 | 4.8  | 57 |

- 169 Intramolecular Proton Transfer in Glycine Radical Cation. *Journal of Physical Chemistry A*, **2000**, 104, 1256-1261
- 168 Three dimensional models of Cu(2+)-AT(1-16) complexes from computational approaches. *Journal of the American Chemical Society*, **2011**, 133, 15008-14 16.4 55
- 167 Mechanistic insights into ring-closing enyne metathesis with the second-generation Grubbs-Hoveyda catalyst: a DFT study. *Chemistry - A European Journal*, **2011**, 17, 7506-20 4.8 55
- 166 Effect of Counterpoise Correction on the Geometries and Vibrational Frequencies of Hydrogen Bonded Systems. *Journal of Physical Chemistry A*, **2001**, 105, 4359-4364 2.8 53
- 165 Computational calculations of pKa values of imidazole in Cu(II) complexes of biological relevance. *Physical Chemistry Chemical Physics*, **2011**, 13, 7852-61 3.6 51
- 164 Thioflavin-T excimer formation upon interaction with amyloid fibers. *Chemical Communications*, **2013**, 49, 5745-7 5.8 50
- 163 Solvent-assisted catalysis in the enolization of acetaldehyde radical cation. *Chemical Physics Letters*, **2001**, 334, 112-118 2.5 50
- 162 A Theoretical Study of the Endo/Exo Selectivity of the Diels-Alder Reaction between Cyclopropene and Butadiene. *Journal of the American Chemical Society*, **1997**, 119, 4232-4238 16.4 49
- 161 Cu2+/+ cation coordination to adenine--thymine base pair. Effects on intermolecular proton-transfer processes. *Journal of Physical Chemistry B*, **2008**, 112, 4817-25 3.4 49
- 160 Isomerization versus Fragmentation of Glycine Radical Cation in Gas Phase. *Journal of Physical Chemistry A*, **2002**, 106, 5697-5702 2.8 49
- 159 Determination of the structure and bond energies of nickel dioxide and copper dioxide. *The Journal of Physical Chemistry*, **1993**, 97, 856-859 49
- 158 A theoretical study of the spectroscopy of MgH2O+ and MgCH3OH+. *Chemical Physics Letters*, **1992**, 195, 494-499 2.5 49
- 157 Hydrogen Atom or Proton Transfer in Neutral and Single Positive Ions of Salicylic Acid and Related Compounds. *Journal of the American Chemical Society*, **1999**, 121, 8882-8890 16.4 48
- 156 Electron hole formation in acidic zeolite catalysts. *Journal of Chemical Physics*, **2004**, 121, 6034-41 3.9 47
- 155 Theoretical Study of the Ionization of the H2O-H2O, NH3-H2O, and FH-H2O Hydrogen-Bonded Molecules. *Journal of the American Chemical Society*, **1994**, 116, 8249-8258 16.4 47
- 154 Theoretical determination of the alkali-metal superoxide bond energies. *Chemical Physics Letters*, **1992**, 195, 200-206 2.5 47
- 153 The calculation of the vibrational frequencies of CuCO+, NiCO and CuCH3. *Chemical Physics Letters*, **1992**, 189, 266-272 2.5 45
- 152 H-Bond Features of Fully Hydroxylated Surfaces of Crystalline Silica Polymorphs: A Periodic B3LYP Study. *Journal of Physical Chemistry C*, **2009**, 113, 17876-17884 3.8 44

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| 151 | Coordination properties of the oxime analogue of glycine to Cu(II). <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 5668-76  | 2.8  | 44 |
| 150 | KetoEnol Isomerization of Acetaldehyde in HZSM5. A Theoretical Study Using the ONIOM2 Method. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 10220-10226  | 3.4  | 43 |
| 149 | Comparison of density functional and coupled cluster methods in the study of metal-ligand systems: Sc-CO <sub>2</sub> and Cu-NO <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 9966-9971       | 3.9  | 43 |
| 148 | Interaction of Co <sup>+</sup> and Co <sup>2+</sup> with glycine. A theoretical study. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 224-30  | 2.8  | 42 |
| 147 | Effects of protonation on proton-transfer processes in guanine-cytosine Watson-Crick base pairs. <i>Theoretical Chemistry Accounts</i> , <b>2004</b> , 112, 318  | 1.9  | 42 |
| 146 | The role of exact exchange in the description of Cu(2+)-(H(2)O)(n) (n = 1-6) complexes by means of DFT methods. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 10857-63                                   | 2.8  | 40 |
| 145 | On the Bonding in Sc-CO <sub>2</sub> . <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 8567-8571  |      | 40 |
| 144 | Al-ligand binding energies. <i>Chemical Physics Letters</i> , <b>1991</b> , 181, 321-326   | 2.5  | 40 |
| 143 | Influence of N7 protonation on the mechanism of the N-glycosidic bond hydrolysis in 2'-deoxyguanosine. A theoretical study. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 6071-7                         | 3.4  | 39 |
| 142 | Influence of the Side Chain in the Structure and Fragmentation of Amino Acids Radical Cations. <i>Journal of Chemical Theory and Computation</i> , <b>2007</b> , 3, 2210-20  | 6.4  | 39 |
| 141 | Visible-Light Photocatalytic Intramolecular Cyclopropane Ring Expansion. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 7826-7830  | 16.4 | 37 |
| 140 | How Does Silica Catalyze the Amide Bond Formation under Dry Conditions? Role of Specific Surface Silanol Pairs. <i>ACS Catalysis</i> , <b>2018</b> , 8, 4558-4568  | 13.1 | 36 |
| 139 | COMPUTATIONAL STUDY OF INTERSTELLAR GLYCINE FORMATION OCCURRING AT RADICAL SURFACES OF WATER-ICE DUST PARTICLES. <i>Astrophysical Journal</i> , <b>2012</b> , 754, 24  | 4.7  | 36 |
| 138 | Theoretical study of the adsorption of DNA bases on the acidic external surface of montmorillonite. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 945-54  | 3.6  | 36 |
| 137 | Cooperative effects at water-crystalline silica interfaces strengthen surface silanol hydrogen bonding. An ab initio molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 10507-14 | 3.6  | 36 |
| 136 | On the bonding of first-row transition metal cations to guanine and adenine nucleobases. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 9823-9  | 2.8  | 33 |
| 135 | Effects of protonation on proton transfer processes in Watson-Crick adenine-thymine base pair. <i>Theoretical Chemistry Accounts</i> , <b>2007</b> , 118, 113-121  | 1.9  | 33 |
| 134 | Palladium Nanoparticles Entrapped in Heavily Fluorinated Compounds. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 716-722  | 9.6  | 33 |

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| 133 | Theoretical study of the alkaline-earth metal superoxides BeO <sub>2</sub> through SrO <sub>2</sub> . <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 9259-9264  |      | 33 |
| 132 | Role of Mineral Surfaces in Prebiotic Chemical Evolution. In <i>Silico Quantum Mechanical Studies</i> . <i>Life</i> , <b>2019</b> , 9,  | 3    | 30 |
| 131 | Metal-mediated deamination of cytosine: experiment and DFT calculations. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 5396-9  | 16.4 | 30 |
| 130 | Spin-forbidden N <sub>2</sub> O dissociation in Cu $\gamma$ SM-5. <i>Chemical Physics Letters</i> , <b>2003</b> , 368, 242-246  | 2.5  | 30 |
| 129 | Peptide bond formation activated by the interplay of Lewis and Brønsted catalysts. <i>Chemical Physics Letters</i> , <b>2005</b> , 408, 295-301   | 2.5  | 30 |
| 128 | Exo/endo Selectivity of the Ring-Closing Enyne Methathesis Catalyzed by Second Generation Ru-Based Catalysts. Influence of Reactant Substituents. <i>ACS Catalysis</i> , <b>2013</b> , 3, 206-218   | 13.1 | 28 |
| 127 | Is the peptide bond formation activated by Cu(2+) interactions? Insights from density functional calculations. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 5740-7   | 3.4  | 28 |
| 126 | Theoretical Study of the Ionization of the H <sub>2</sub> S-H <sub>2</sub> S, PH <sub>3</sub> -H <sub>2</sub> S, and ClH-H <sub>2</sub> S Hydrogen Bonded Molecules. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 8416-8421 | 16.4 | 28 |
| 125 | A study of the ground and low-lying states of MgCH <sub>4</sub> . <i>Chemical Physics Letters</i> , <b>1993</b> , 214, 489-494  | 2.5  | 28 |
| 124 | Physisorption vs. chemisorption of probe molecules on boron nitride nanomaterials: the effect of surface curvature. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 13190-8  | 3.6  | 27 |
| 123 | Coordination properties of glycylglycine to Cu <sup>+</sup> , Ni <sup>+</sup> and Co <sup>+</sup> . Influence of metal cation electronic configuration. <i>New Journal of Chemistry</i> , <b>2005</b> , 29, 1585                                    | 3.6  | 27 |
| 122 | Toward Olefin Metathesis with Iron Carbene Complexes: Benefits of Tridentate $\pi$ -Donating Ligands. <i>Organometallics</i> , <b>2016</b> , 35, 3914-3923  | 3.8  | 27 |
| 121 | 3D structures and redox potentials of Cu <sub>2</sub> <sup>++</sup> -A $\beta$ (1-16) complexes at different pH: a computational study. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 4840-50   | 3.4  | 26 |
| 120 | Periodic DFT Study of Radical Species on Crystalline Silica Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 16430-16438   | 3.8  | 26 |
| 119 | DFT Study on the Relative Stabilities of Substituted Ruthenacyclobutane Intermediates Involved in Olefin Cross-Metathesis Reactions and Their Interconversion Pathways. <i>Organometallics</i> , <b>2014</b> , 33, 6065-6075                        | 3.8  | 25 |
| 118 | DFT study on the recovery of Hoveyda-grubbs-type catalyst precursors in enyne and diene ring-closing metathesis. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 14553-65   | 4.8  | 25 |
| 117 | On the NO Decomposition by Cu $\gamma$ SM-5 through the ZCu(NO <sub>2</sub> )(NO) or ZCu(N <sub>2</sub> O <sub>3</sub> ) Intermediates. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 1372-1379                                       | 3.4  | 25 |
| 116 | A study of the ground and low-lying states of MgC <sub>2</sub> H <sub>2</sub> <sup>+</sup> and MgC <sub>2</sub> H <sub>4</sub> <sup>+</sup> . <i>Chemical Physics</i> , <b>1994</b> , 185, 163-171  | 3.1  | 25 |



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| 115 | 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> , <b>1991</b> , 56, 4135-4141 | 4.2  | 25 |
| 114 | Amide and Peptide Bond Formation: Interplay between Strained Ring Defects and Silanol Groups at Amorphous Silica Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24817-24826   | 3.8  | 24 |
| 113 | Structures and stabilities of Fe <sup>2+</sup> /3 <sup>+</sup> complexes relevant to Alzheimer's disease: an ab initio study. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 12523-30   | 2.8  | 24 |
| 112 | Effects of ionization on N-glycylglycine peptide: influence of intramolecular hydrogen bonds. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 154306   | 3.9  | 24 |
| 111 | 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> , <b>2006</b> , 110, 5767-72                        | 3.4  | 24 |
| 110 | Water-catalyzed isomerization of the glycine radical cation. From hydrogen-atom transfer to proton-transport catalysis. <i>Theoretical Chemistry Accounts</i> , <b>2004</b> , 111, 217-222   | 1.9  | 24 |
| 109 | Binding of Thioflavin T and Related Probes to Polymorphic Models of Amyloid- $\beta$ Fibrils. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 8926-8934  | 3.4  | 23 |
| 108 | Hydrogen bonding and aromaticity in the guanine-cytosine base pair interacting with metal cations (M = Cu <sup>+</sup> , Ca <sup>2+</sup> and Cu <sup>2+</sup> ). <i>Molecular Physics</i> , <b>2005</b> , 103, 163-173                        | 1.7  | 23 |
| 107 | Triplet ( $\pi,\pi$ ) reactivity of the guanine-cytosine DNA base pair: benign deactivation versus double tautomerization via intermolecular hydrogen transfer. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 12770-1   | 16.4 | 23 |
| 106 | Gas phase reactivity of Cu <sup>+</sup> -aromatic amino acids: An experimental and theoretical study. <i>International Journal of Mass Spectrometry</i> , <b>2006</b> , 257, 60-69   | 1.9  | 22 |
| 105 | Theoretical Study of the Structure of ZCu(NO <sub>2</sub> )(NO). A Proposed Intermediate in the NO <sub>x</sub> Decomposition by Cu/ZSM-5. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 3225-3230                               | 2.8  | 22 |
| 104 | Ab initio study of the ground and low-lying states of FeH. <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 2478-2480  | 3.9  | 22 |
| 103 | Interstellar H adsorption and H <sub>2</sub> formation on the crystalline (010) forsterite surface: a B3LYP-D2* periodic study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 17447-57  | 3.6  | 21 |
| 102 | Disaggregation-induced fluorescence enhancement of NIAD-4 for the optical imaging of amyloid- $\beta$ fibrils. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 19718-25   | 3.6  | 21 |
| 101 | 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> , <b>2009</b> , 10, 746-60       | 6.3  | 21 |
| 100 | Canonical, Deprotonated, or Zwitterionic? A Computational Study on Amino Acid Interaction with the TiO <sub>2</sub> (101) Anatase Surface. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 14156-14165                             | 3.8  | 20 |
| 99  | Thioflavin-based molecular probes for application in Alzheimer's disease: from in silico to in vitro models. <i>Metallomics</i> , <b>2015</b> , 7, 83-92   | 4.5  | 20 |
| 98  | On the electronic structure of second generation Hoveyda-Grubbs alkene metathesis precursors. <i>Computational and Theoretical Chemistry</i> , <b>2012</b> , 996, 57-67  | 2    | 20 |

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| 97 | Hydrogen bond vs proton transfer in HZSM5 zeolite. A theoretical study. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 19301-8   | 3.4 | 20 |
| 96 | Density functional cluster model study of bonding and coordination modes of CO <sub>2</sub> on Pd(111). <i>Surface Science</i> , <b>1999</b> , 431, 208-219   | 1.8 | 20 |
| 95 | Theoretical study of the bonding of NO <sub>2</sub> to Cu and Ag. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 9738-9743   | 3.9 | 20 |
| 94 | Water Adsorption on MO (M = Ti, Ru, and Ir) Surfaces. Importance of Octahedral Distortion and Cooperative Effects. <i>ACS Omega</i> , <b>2019</b> , 4, 2989-2999  | 3.9 | 19 |
| 93 | Origin of the Enhanced Interaction of Molecular Hydrogen with Extraframework Cu <sup>+</sup> and FeO <sup>+</sup> Cations in Zeolite Hosts. A Periodic DFT Study. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 13926-13934                                       | 3.8 | 19 |
| 92 | Chemistry of the scandium-benzynes in the gas phase. <i>Inorganic Chemistry</i> , <b>1991</b> , 30, 3822-3829   | 5.1 | 19 |
| 91 | Dioxygen activation in the Cu-amyloid $\beta$ -complex. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 27270-4  | 3.6 | 18 |
| 90 | Reactivity of Metal Carbenes with Olefins: Theoretical Insights on the Carbene Electronic Structure and Cyclopropanation Reaction Mechanism. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 1702-1712  | 2.8 | 18 |
| 89 | Do H-bond features of silica surfaces affect the H <sub>2</sub> O and NH <sub>3</sub> adsorption? Insights from periodic B3LYP calculations. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 11221-8  | 2.8 | 18 |
| 88 | Binding properties of Cu(+2+)-(glycyl) <sub>n</sub> glycine complexes (n = 1-3). <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 3444-53  | 2.8 | 18 |
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