

Mariona Sodupe

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

#	Paper	IF	Citations
204	First-Principles Modeling of Protein/Surface Interactions. Polyglycine Secondary Structure Adsorption on the TiO (101) Anatase Surface Adopting a Full Periodic Approach. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 5484-5498	6.1	1
203	pH-Responsive Self-Assembly of Amyloid Fibrils for Dual Hydrolase-Oxidase Reactions. <i>ACS Catalysis</i> , 2021 , 11, 595-607	13.1	14
202	Importance of the oxyl character on the IrO ₂ surface dependent catalytic activity for the oxygen evolution reaction. <i>Journal of Catalysis</i> , 2021 , 396, 192-201	7.3	3
201	Atomistic insights into the structure of heptapeptide nanofibers. <i>Journal of Chemical Physics</i> , 2021 , 155, 055101	3.9	
200	Surface morphology controls water dissociation on hydrated IrO nanoparticles. <i>Nanoscale</i> , 2021 , 13, 14480-14489	7.7	0
199	Impact of Cu(II) and Al(III) on the conformational landscape of amyloid- β . <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 13023-13032	3.6	1
198	Atomistic fibrillar architectures of polar prion-inspired heptapeptides. <i>Chemical Science</i> , 2020 , 11, 13143-13151	5.1	12
197	Formamide Dehydration and Condensation on Acidic Montmorillonite: Mechanistic Insights from Ab-Initio Periodic Simulations. <i>Lecture Notes in Computer Science</i> , 2020 , 502-512	0.9	
196	BCN-M: A Free Computational Tool for Generating Wulff-like Nanoparticle Models with Controlled Stoichiometry. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1227-1237	3.8	7
195	Enhanced Metallophilicity in Metal-Carbene Systems: Stronger Character of Aurophilic Interactions in Solution. <i>Chemistry - A European Journal</i> , 2020 , 26, 997-1002	4.8	4
194	Aerobic intramolecular carbon-hydrogen bond oxidation promoted by Cu(I) complexes. <i>Dalton Transactions</i> , 2020 , 49, 14647-14655	4.3	4
193	Role of Mineral Surfaces in Prebiotic Chemical Evolution. In Silico Quantum Mechanical Studies. <i>Life</i> , 2019 , 9,	3	30
192	Nucleobase Stacking at Clay Edges, a Favorable Interaction for RNA/DNA Oligomerization. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 1023-1033	3.2	3
191	Water Adsorption on MO (M = Ti, Ru, and Ir) Surfaces. Importance of Octahedral Distortion and Cooperative Effects. <i>ACS Omega</i> , 2019 , 4, 2989-2999	3.9	19
190	Site-selective-induced isomerization of formamide. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25626-25634	3.5	3
189	Activating a Peroxo Ligand for C-O Bond Formation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3037-3041	16.4	5
188	Activating a Peroxo Ligand for C-O Bond Formation. <i>Angewandte Chemie</i> , 2019 , 131, 3069-3073	3.6	2

187	Interaction between Ruthenium Oxide Surfaces and Water Molecules. Effect of Surface Morphology and Water Coverage. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7786-7798	3.8	14
186	Intramolecular Photocycloaddition of 2(5 H)-Furanones to Temporarily Tethered Terminal Alkenes as a Stereoselective Source of Enantiomerically Pure Polyfunctionalized Cyclobutanes. <i>Journal of Organic Chemistry</i> , 2018 , 83, 3188-3199	4.2	2
185	Influence of Ligands and Oxidation State on the Reactivity of Pentacoordinated Iron Carbenes with Olefins: Metathesis versus Cyclopropanation. <i>Organometallics</i> , 2018 , 37, 1229-1241	3.8	11
184	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	13.1	36
183	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	2.8	18
182	Drastic Effect of the Peptide Sequence on the Copper-Binding Properties of Tripeptides and the Electrochemical Behaviour of Their Copper(II) Complexes. <i>Chemistry - A European Journal</i> , 2018 , 24, 5153-5162	4.8	14
181	Fluorous l-Carbidopa Precursors: Highly Enantioselective Synthesis and Computational Prediction of Bioactivity. <i>Journal of Organic Chemistry</i> , 2018 , 83, 303-313	4.2	8
180	Formamide Adsorption at the Amorphous Silica Surface: A Combined Experimental and Computational Approach. <i>Life</i> , 2018 , 8,	3	12
179	Small molecule inhibits α -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	11.5	99
178	When the Surface Matters: Prebiotic Peptide-Bond Formation on the TiO (101) Anatase Surface through Periodic DFT-D2 Simulations. <i>Chemistry - A European Journal</i> , 2018 , 24, 16292-16301	4.8	15
177	Enhanced photocatalytic activity of gold nanoparticles driven by supramolecular host-guest chemistry. <i>Chemical Communications</i> , 2017 , 53, 2126-2129	5.8	11
176	Elucidating the 3D structures of Al(iii)-Al complexes: a template free strategy based on the pre-organization hypothesis. <i>Chemical Science</i> , 2017 , 8, 5041-5049	9.4	17
175	Visible-Light Photocatalytic Intramolecular Cyclopropane Ring Expansion. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7826-7830	16.4	37
174	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	3.8	20
173	Fluorescent Markers for Amyloid-Detection: Computational Insights. <i>Israel Journal of Chemistry</i> , 2017 , 57, 686-698	3.4	1
172	Binding of Thioflavin T and Related Probes to Polymorphic Models of Amyloid-Fibrils. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 8926-8934	3.4	23
171	Multiple Condensation Reactions Involving Pt(II) /Pd(II) -OH ₂ , Pt-NH ₃ , and Cytosine-NH ₂ Groups: New Twists in Cisplatin-Nucleobase Chemistry. <i>Chemistry - A European Journal</i> , 2016 , 22, 13653-68	4.8	6
170	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	3.8	24

169	Computational study on donor-acceptor optical markers for Alzheimer's disease: a game of charge transfer and electron delocalization. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11634-43	3.6	9
168	Stability of transient Cu+Al(1-6) species and influence of coordination and peptide configuration on superoxide formation. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	6
167	The role of charge transfer in the photophysics of dithiophene-based (NIADs) fluorescent markers for amyloid- β detection. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	2
166	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, 6873-6	5.8	14
165	Toward Olefin Metathesis with Iron Carbene Complexes: Benefits of Tridentate π -Donating Ligands. <i>Organometallics</i> , 2016 , 35, 3914-3923	3.8	27
164	Modeling Cu ²⁺ -Al complexes from computational approaches. <i>AIP Advances</i> , 2015 , 5, 092402	1.5	16
163	Coordination properties of a metal chelator clioquinol to Zn(2+) studied by static DFT and ab initio molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13582-9	3.6	13
162	Dioxygen activation in the Cu-amyloid β complex. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 27270-4	3.6	18
161	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	4.3	14
160	Thioflavin-based molecular probes for application in Alzheimer's disease: from in silico to in vitro models. <i>Metallomics</i> , 2015 , 7, 83-92	4.5	20
159	Strained ring motif at silica surfaces: A quantum mechanical study of their reactivity towards protic molecules. <i>Computational and Theoretical Chemistry</i> , 2015 , 1074, 168-177	2	7
158	Disaggregation-induced fluorescence enhancement of NIAD-4 for the optical imaging of amyloid- β fibrils. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 19718-25	3.6	21
157	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	3.8	25
156	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, 17447-57	3.6	21
155	3D structures and redox potentials of Cu ²⁺ -Al(1-16) complexes at different pH: a computational study. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 4840-50	3.4	26
154	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, 5866-75	2.8	15
153	Gas-Phase and Microsolvated Glycine Interacting with Boron Nitride Nanotubes. A B3LYP-D2* Periodic Study. <i>Inorganics</i> , 2014 , 2, 334-350	2.9	14
152	Mixed adenine/guanine quartets with three trans- α 2 Pt(II) (α =NH(3) or MeNH(2)) cross-links: linkage and rotational isomerism, base pairing, and loss of NH(3). <i>Chemistry - A European Journal</i> , 2014 , 20, 3394-407	4.8	8

151	3-Hydroxy-4-pyridinone derivatives as metal ion and amyloid binding agents. <i>Metallomics</i> , 2014 , 6, 249-62.5	17
150	Physisorption vs. chemisorption of probe molecules on boron nitride nanomaterials: the effect of surface curvature. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13190-8	3.6 27
149	Structural Behaviors of Cytosine into the Hydrated Interlayer of Na ⁺ -Montmorillonite Clay. An ab Initio Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26179-26189	3.8 15
148	Exo/endo Selectivity of the Ring-Closing Enyne Methathesis Catalyzed by Second Generation Ru-Based Catalysts. Influence of Reactant Substituents. <i>ACS Catalysis</i> , 2013 , 3, 206-218	13.1 28
147	Silica surface features and their role in the adsorption of biomolecules: computational modeling and experiments. <i>Chemical Reviews</i> , 2013 , 113, 4216-313	68.1 414
146	Thioflavin-T excimer formation upon interaction with amyloid fibers. <i>Chemical Communications</i> , 2013 , 49, 5745-7	5.8 50
145	Insights on the binding of Thioflavin derivative markers to amyloid-like fibril models from quantum chemical calculations. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 6674-80	3.4 14
144	Surface Reaction of Acetylene with H-Terminated Silicon Surfaces. A Theoretical Study from Hybrid DFT-D2 Periodic Simulations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15130-15138	3.8 6
143	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, 14553-65	4.8 25
142	COMPUTATIONAL STUDY OF INTERSTELLAR GLYCINE FORMATION OCCURRING AT RADICAL SURFACES OF WATER-ICE DUST PARTICLES. <i>Astrophysical Journal</i> , 2012 , 754, 24	4.7 36
141	On the electronic structure of second generation Hoveyda-Grubbs alkene metathesis precursors. <i>Computational and Theoretical Chemistry</i> , 2012 , 996, 57-67	2 20
140	Differences in the Activation Processes of Phosphine-Containing and Grubbs-Hoveyda-Type Alkene Metathesis Catalysts. <i>Organometallics</i> , 2012 , 31, 4203-4215	3.8 77
139	Theoretical study of the adsorption of DNA bases on the acidic external surface of montmorillonite. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 945-54	3.6 36
138	Cooperative effects at water-crystalline silica interfaces strengthen surface silanol hydrogen bonding. An ab initio molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10507-14	3.6 36
137	Computational Simulations of Prebiotic Processes. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012 , 345-362	
136	Three dimensional models of Cu(2+)-AT(1-16) complexes from computational approaches. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15008-14	16.4 55
135	Computational calculations of pKa values of imidazole in Cu(II) complexes of biological relevance. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7852-61	3.6 51
134	Ab initio design of chelating ligands relevant to Alzheimer's disease: influence of metalloaromaticity. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 12659-66	2.8 17

133	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, 11221-8	2.8	18
132	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, 12523-30	2.8	24
131	In silico strategies for the selection of chelating compounds with potential application in metal-promoted neurodegenerative diseases. <i>Journal of Computer-Aided Molecular Design</i> , 2011 , 25, 21-30	4.2	13
130	On the mechanism of the N-glycosidic bond hydrolysis of 2'-deoxyguanosine: insights from first principles calculations. <i>Theoretical Chemistry Accounts</i> , 2011 , 128, 619-626	1.9	14
129	Theoretical and computational chemistry in Spain. <i>Theoretical Chemistry Accounts</i> , 2011 , 128, 389-391	1.9	
128	In silico study of the interstellar prebiotic formation and delivery of glycine. <i>Rendiconti Lincei</i> , 2011 , 22, 137-144	1.7	8
127	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, 7506-20	4.8	55
126	Pt(II) coordination to N1 of 9-methylguanine: why it facilitates binding of additional metal ions to the purine ring. <i>Chemistry - A European Journal</i> , 2011 , 17, 9970-83	4.8	13
125	O-O bond activation in H ₂ O ₂ and (CH ₃) ₃ C-OOH mediated by [Ni(cyclam)(CH ₃ CN) ₂](ClO ₄) ₂ : different mechanisms to form the same Ni(III) product?. <i>Dalton Transactions</i> , 2011 , 40, 6868-76	4.3	13
124	Crystal structure of thioflavin-T and its binding to amyloid fibrils: insights at the molecular level. <i>Chemical Communications</i> , 2010 , 46, 1156-8	5.8	62
123	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> , 2010 , 114, 10857-63	2.8	40
122	Origin of the Enhanced Interaction of Molecular Hydrogen with Extraframework Cu ⁺ and FeO ⁺ Cations in Zeolite Hosts. A Periodic DFT Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13926-13934	3.8	19
121	[2 + 2] Photocycloaddition of 2(5H)-furanone to unsaturated compounds. insights from first principles calculations and transient-absorption measurements. <i>Journal of Organic Chemistry</i> , 2010 , 75, 4392-401	4.2	16
120	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, 688-97	3.6	76
119	Periodic DFT Study of Radical Species on Crystalline Silica Surfaces. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16430-16438	3.8	26
118	A DFT periodic study on the interaction between O ₂ and cation exchanged chabazite MCHA (M = H ⁺ , Na ⁺ or Cu ⁺): effects in the triplet-singlet energy gap. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 442-52	3.6	16
117	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, 5285-94	3.6	60
116	Hydrogen Bonding and Proton Transfer in ionized DNA Base Pairs, Amino Acids and Peptides 2010 , 219-243		5

115	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> , 2010 , 16, 7331-43	4.8	77
114	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, 746-60	6.3	21
113	Influence of ionization on the conformational preferences of peptide models. Ramachandran surfaces of N-formyl-glycine amide and N-formyl-alanine amide radical cations. <i>Journal of Computational Chemistry</i> , 2009 , 30, 1771-84	3.5	6
112	Influence of π -stacking on the N7 and O6 proton affinity of guanine. <i>Theoretical Chemistry Accounts</i> , 2009 , 123, 105-111	1.9	11
111	Structure, bonding, and relative stability of the ground and low-lying electronic states of CuO ₂ . The role of exact exchange. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 1308-17	2.8	16
110	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	3.8	66
109	Coordination of (glycyl)(n)glycine (n = 1-3) to Co ⁺ and Co ²⁺ . <i>Journal of Physical Chemistry A</i> , 2009 , 113, 8883-92	2.8	8
108	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	3.8	44
107	Affinity Scale for the Interaction of Amino Acids with Silica Surfaces. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5741-5750	3.8	95
106	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, 1436-51	16.4	179
105	Cu ²⁺ /+ cation coordination to adenine-thymine base pair. Effects on intermolecular proton-transfer processes. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 4817-25	3.4	49
104	Binding properties of Cu(+2+)-(glycyl) _n glycine complexes (n = 1-3). <i>Journal of Physical Chemistry A</i> , 2008 , 112, 3444-53	2.8	18
103	Coordination properties of lysine interacting with Co(I) and Co(II). A theoretical and mass spectrometry study. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 12385-92	2.8	8
102	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	24	160
101	How the site of ionisation influences side-chain fragmentation in histidine radical cation. <i>Chemical Physics Letters</i> , 2008 , 451, 276-281	2.5	14
100	On the bonding of first-row transition metal cations to guanine and adenine nucleobases. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 9823-9	2.8	33
99	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, 8333-44	16.4	64
98	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> , 2007 , 111, 6071-7	3.4	39

97	Is the peptide bond formation activated by Cu(2+) interactions? Insights from density functional calculations. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 5740-7	3.4	28
96	Effects of protonation on proton transfer processes in Watson-Crick adenine-thymine base pair. <i>Theoretical Chemistry Accounts</i> , 2007 , 118, 113-121	1.9	33
95	Gas-phase proton-transport self-catalysed isomerisation of glutamine radical cation: The important role of the side-chain. <i>Theoretical Chemistry Accounts</i> , 2007 , 118, 589-595	1.9	9
94	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, 2210-20	6.4	39
93	A Theoretical Study on PdII Complexes Containing Hemilabile Pyrazole-Derived Ligands. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 447-454	2.3	15
92	Does silica surface catalyse peptide bond formation? New insights from first-principles calculations. <i>ChemPhysChem</i> , 2006 , 7, 157-63	3.2	70
91	Effects of ionization on N-glycylglycine peptide: influence of intramolecular hydrogen bonds. <i>Journal of Chemical Physics</i> , 2006 , 124, 154306	3.9	24
90	Interaction of glycine with isolated hydroxyl groups at the silica surface: first principles B3LYP periodic simulation. <i>Langmuir</i> , 2006 , 22, 6593-604	4	77
89	Canonical Watson-Crick base pair interactions in $\pi\pi$ type triplet states. <i>Molecular Physics</i> , 2006 , 104, 925-931	1.7	4
88	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, 24189-99	3.4	73
87	Palladium Nanoparticles Entrapped in Heavily Fluorinated Compounds. <i>Chemistry of Materials</i> , 2006 , 18, 716-722	9.6	33
86	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, 5767-72	3.4	24
85	Gas phase reactivity of Cu ⁺ -aromatic amino acids: An experimental and theoretical study. <i>International Journal of Mass Spectrometry</i> , 2006 , 257, 60-69	1.9	22
84	Coordination properties of glycylglycine to Cu ⁺ , Ni ⁺ and Co ⁺ . Influence of metal cation electronic configuration. <i>New Journal of Chemistry</i> , 2005 , 29, 1585	3.6	27
83	Hydrogen bond vs proton transfer in HZSM5 zeolite. A theoretical study. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19301-8	3.4	20
82	Hydrogen bonding and aromaticity in the guanine-cytosine base pair interacting with metal cations (M = Cu ⁺ , Ca ²⁺ and Cu ²⁺). <i>Molecular Physics</i> , 2005 , 103, 163-173	1.7	23
81	Coordination properties of the oxime analogue of glycine to Cu(II). <i>Journal of Physical Chemistry A</i> , 2005 , 109, 5668-76	2.8	44
80	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, 3539-45	3.4	88

79	Interaction of Co ⁺ and Co ²⁺ with glycine. A theoretical study. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 224-30	2.8	42
78	Structure and fragmentation of glycine, alanine, serine and cysteine radical cations. A theoretical study. <i>Computational and Theoretical Chemistry</i> , 2005 , 727, 191-197		59
77	Peptide bond formation activated by the interplay of Lewis and Brønsted catalysts. <i>Chemical Physics Letters</i> , 2005 , 408, 295-301	2.5	30
76	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	1.9	24
75	Effects of protonation on proton-transfer processes in guanine-cytosine Watson-Crick base pairs. <i>Theoretical Chemistry Accounts</i> , 2004 , 112, 318	1.9	42
74	Metal-mediated deamination of cytosine: experiment and DFT calculations. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5396-9	16.4	30
73	Mechanismus der metallvermittelten Desaminierung von Cytosin [Experiment und DFT-Rechnungen. <i>Angewandte Chemie</i> , 2004 , 116, 5507-5511	3.6	6
72	Unusual hydrogen bonds in [AH ₃ B ₃ O] ⁺ radical cations (A = C, Si, Ge, Sn and Pb): Single-electron hydrogen bond, proton-hydride hydrogen bond and formation of [H ₂ AOH ₂] ⁺ B ₂ complexes. <i>Chemical Physics Letters</i> , 2004 , 395, 27-32	2.5	4
71	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> , 2004 , 126, 12770-1	16.4	23
70	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	3.4	83
69	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	2.8	99
68	Electron hole formation in acidic zeolite catalysts. <i>Journal of Chemical Physics</i> , 2004 , 121, 6034-41	3.9	47
67	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	2.8	79
66	Unusual hydrogen bonds in [AH ₃ B ₃ O] ⁺ radical cations (A=C, Si, Ge, Sn and Pb)Single-electron hydrogen bond, proton-hydride hydrogen bond and formation of [H ₂ AOH ₂] ⁺ B ₂ complexes. <i>Chemical Physics Letters</i> , 2004 , 395, 27-32	2.5	10
65	Bent and Linear Forms of the (EO _x)bis[trichloroferrate(III)] Dianion: An Intermolecular Effect [Structural, Electronic and Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 4187-4194	2.3	119
64	Basic and acidic bifunctional catalysis: application to the tautomeric equilibrium of formamide. <i>Chemical Physics</i> , 2003 , 295, 151-158	2.3	11
63	Spin-forbidden N ₂ O dissociation in Cu-ZSM-5. <i>Chemical Physics Letters</i> , 2003 , 368, 242-246	2.5	30
62	Gas phase dissociation energies of saturated AH _n ⁺ radical cations and AH _n neutrals (A = Li-F, Na-Cl): dehydrogenation, deprotonation, and formation of AH _{n-2} ⁺ - H ₂ complexes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7461-9	16.4	15

61	Gas Phase Reactivity of Ni ⁺ with Urea. Mass Spectrometry and Theoretical Studies. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 9865-9874	2.8	16
60	Effects of Ionization and Cationization on Intermolecular Proton Transfer Reactions in DNA base Pairs 2003 , 1231-1255		
59	Isomerization versus Fragmentation of Glycine Radical Cation in Gas Phase. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 5697-5702	2.8	49
58	KetoEnol Isomerization of Acetaldehyde in HZSM5. A Theoretical Study Using the ONIOM2 Method. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10220-10226	3-4	43
57	On the NO Decomposition by CuZSM-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	3-4	25
56	Solvent-assisted catalysis in the enolization of acetaldehyde radical cation. <i>Chemical Physics Letters</i> , 2001 , 334, 112-118	2.5	50
55	Protonation of glycine, serine and cysteine. Conformations, proton affinities and intrinsic basicities. <i>Computational and Theoretical Chemistry</i> , 2001 , 537, 307-318		79
54	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	2.8	53
53	Gas-Phase Reactivity of Ni ⁺ with Glycine. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 5340-5347	2.8	66
52	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, 4393-9	4.8	57
51	Theoretical Study of the Structure of ZCu(NO ₂)(NO). A Proposed Intermediate in the NO _x Decomposition by CuZSM-5. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 3225-3230	2.8	22
50	Intramolecular Proton Transfer in Glycine Radical Cation. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 1256-1261	2.8	56
49	The Different Nature of Bonding in Cu ⁺ -Glycine and Cu ²⁺ -Glycine. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 2310-2317	3-4	188
48	Density functional cluster model study of bonding and coordination modes of CO ₂ on Pd(111). <i>Surface Science</i> , 1999 , 431, 208-219	1.8	20
47	Ground State of the (H ₂ O) ₂ ⁺ Radical Cation: DFT versus Post-HartreeFock Methods. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 166-170	2.8	223
46	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	16.4	48
45	Single versus Double Proton-Transfer Reactions in WatsonCrick Base Pair Radical Cations. A Theoretical Study. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8159-8167	16.4	195
44	Coordination of NO ₂ to Alkaline-Earth Metals. A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 630-635	2.8	10

43	Coordination of NO(2) to Cu and Mg in M(NO(2))(2) Complexes. A Theoretical Study. <i>Inorganic Chemistry</i> , 1998 , 37, 4512-4517	5.1	10
42	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	16.4	89
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	16.4	49
40	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	2.8	74
39	Theoretical Study of M+O ₂ and OM+CO Systems for First Transition Row Metal Atoms. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 7854-7859	2.8	103
38	Theoretical study of ScCO ₂ ⁺ . <i>International Journal of Quantum Chemistry</i> , 1997 , 63, 523-528	2.1	3
37	Atomic reference energies for density functional calculations. <i>Chemical Physics Letters</i> , 1997 , 265, 481-489	2.5	146
36	Theoretical study of the ScCO ₂ -> OScCO reaction. <i>Computational and Theoretical Chemistry</i> , 1996 , 371, 79-84		15
35	Comparison of density functional and coupled cluster methods in the study of metal-ligand systems: ScO ₂ and CuO ₂ . <i>Journal of Chemical Physics</i> , 1996 , 105, 9966-9971	3.9	43
34	Theoretical study of the bonding of NO ₂ to Cu and Ag. <i>Journal of Chemical Physics</i> , 1995 , 103, 9738-9743	3.9	20
33	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	16.4	28
32	On the Bonding in Sc-CO ₂ . <i>The Journal of Physical Chemistry</i> , 1995 , 99, 8567-8571		40
31	What is the structure of FeC ₅ H ₆ ⁺ ?. <i>Chemical Physics Letters</i> , 1995 , 240, 526-532	2.5	8
30	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	2.5	25
29	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	16.4	47
28	Determination of the structure and bond energies of nickel dioxide and copper dioxide. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 856-859		49
27	The bonding in FeC ₅ H ₅ . <i>Chemical Physics Letters</i> , 1993 , 207, 19-22	2.5	14
26	The bonding in the low-lying states of MgO+ ₂ . <i>Chemical Physics Letters</i> , 1993 , 203, 215-219	2.5	16

25	A theoretical study of the spectroscopy of SrH_2O^+ and SrNH_3^+ . <i>Chemical Physics Letters</i> , 1993 , 212, 624-630	3.9	11
24	A study of the ground and low-lying states of MgCH_4 . <i>Chemical Physics Letters</i> , 1993 , 214, 489-494	2.5	28
23	Comment on: An ab initio study of the ionization of sodium superoxide. <i>Journal of Chemical Physics</i> , 1992 , 96, 7871-7871	3.9	10
22	Theoretical study of the bonding of the first-row transition-metal positive ions to ethylene. [Erratum to document cited in CA116(13):128993g]. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 5670-5670		2
21	Theoretical study of the alkaline-earth metal superoxides BeO_2 through SrO_2 . <i>The Journal of Physical Chemistry</i> , 1992 , 96, 9259-9264		33
20	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		99
19	A theoretical study of the positive and dipositive ions of $\text{M}(\text{NH}_3)_n$ and $\text{M}(\text{H}_2\text{O})_n$ for $\text{M}=\text{Mg}$, Ca , or Sr . <i>Journal of Chemical Physics</i> , 1992 , 96, 4453-4463	3.9	199
18	Gas-phase chemistry of $\text{Sc}(\text{CH}_3)_2^+$ with alkenes: activation of allylic carbon-hydrogen (C-H) bonds by a d0 system and the migratory insertion of C:C bonds into scandium-methyl (Sc^+-CH_3) bonds. <i>Journal of the American Chemical Society</i> , 1992 , 114, 9106-9111	16.4	13
17	The calculation of the vibrational frequencies of CuCO^+ , NiCO and CuCH_3 . <i>Chemical Physics Letters</i> , 1992 , 189, 266-272	2.5	45
16	A theoretical study of the spectroscopy of MgH_2O^+ and MgCH_3OH^+ . <i>Chemical Physics Letters</i> , 1992 , 195, 494-499	2.5	49
15	A theoretical study of $\text{Mg}(\text{CO}_2)_n$ and $\text{Sr}(\text{CO}_2)_n$ for $n = 1$ and 2 and Mg_2CO_2 . <i>Chemical Physics Letters</i> , 1992 , 192, 185-194	2.5	59
14	Theoretical study of the $2A_2?2B_2$ separation of the alkali superoxides. <i>Chemical Physics Letters</i> , 1992 , 197, 213-216	2.5	8
13	Theoretical determination of the alkali-metal superoxide bond energies. <i>Chemical Physics Letters</i> , 1992 , 195, 200-206	2.5	47
12	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		93
11	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		86
10	Ab initio study of the reaction between $\text{Cl}_4\text{W?CH}_2$ and ethylene. <i>Computational and Theoretical Chemistry</i> , 1991 , 251, 37-47		5
9	Al+ligand binding energies. <i>Chemical Physics Letters</i> , 1991 , 181, 321-326	2.5	40
8	The metal-ligand binding energies for $\text{Sr}(\text{H}_2\text{O})_n$. <i>Journal of Chemical Physics</i> , 1991 , 95, 9422-9423	3.9	11

7	Chemistry of the scandium-benzyne ion in the gas phase. <i>Inorganic Chemistry</i> , 1991 , 30, 3822-3829	5.1	19
6	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	4.2	25
5	An ab initio study of the collinear reaction of Fe+ (4F) and Fe+ (6D) with H ₂ . <i>Journal of Chemical Physics</i> , 1991 , 94, 4352-4355	3.9	1
4	Ab initio study of the ground and low-lying states of FeH. <i>Journal of Chemical Physics</i> , 1990 , 92, 2478-2489	3.9	22
3	Ground and low-lying states of FeH+ as derived from ab initio self-consistent field and configuration interaction calculations. <i>Journal of Chemical Physics</i> , 1989 , 90, 6436-6442	3.9	16
2	Theoretical study of the conformational preferences in the Cl ₄ W:CH ₂ complex. <i>Organometallics</i> , 1989 , 8, 1837-1841	3.8	11
1	An AM1 and MNDO theoretical study of the Diels-Alder reaction between .beta.-angelica lactone and cyclopentadiene. <i>Journal of Organic Chemistry</i> , 1989 , 54, 2488-2490	4.2	14