

Josã© Maria Mercero

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Water-Promoted Hydrolysis of a Highly Twisted Amide: Rate Acceleration Caused by the Twist of the Amide Bond. <i>Journal of the American Chemical Society</i> , 2005, 127, 4445-4453.	13.7	136
2	Recent developments and future prospects of all-metal aromatic compounds. <i>Chemical Society Reviews</i> , 2015, 44, 6519-6534.	38.1	128
3	Theoretical methods that help understanding the structure and reactivity of gas phase ions. <i>International Journal of Mass Spectrometry</i> , 2005, 240, 37-99.	1.5	104
4	Sandwich-Like Complexes Based on Al_4I_2 Aromatic Compounds. <i>Journal of the American Chemical Society</i> , 2004, 126, 3380-3381.	13.7	102
5	Electronic Excitation Energies of ZnO Clusters. <i>Journal of the American Chemical Society</i> , 2003, 125, 9494-9499.	13.7	98
6	A Joint Experimental and Theoretical Study of Cation- π Interactions: Multiple-Decker Sandwich Complexes of Ferrocene with Alkali Metal Ions (Li ⁺ , Na ⁺ , K ⁺ , Rb ⁺ , Cs ⁺). <i>Journal of the American Chemical Society</i> , 2005, 127, 10656-10666.	13.7	81
7	New Solids Based on $\text{B}_{12}\text{N}_{12}$ Fullerenes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13354-13360.	3.1	72
8	Planar pentacoordinate carbons in CBe_5 derivatives. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4620-4624.	2.8	66
9	Clusters of IV Materials: C_dX_i , X = S, Se, Te. 16. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10502-10508.	2.5	56
10	Planar tetracoordinate carbon in CE_4 (E = Al, Ga, In, Tl) clusters. <i>Chemical Physics Letters</i> , 2012, 519-520, 29-33.	2.6	56
11	CBe_5E (E = Al, Ga, In, Tl): planar pentacoordinate carbon in heptaatomic clusters. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14764.	2.8	55
12	The Ferrocene-Lithium Cation Complex in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2001, 123, 5040-5043.	13.7	51
13	A Theoretical Evaluation of the pKa for Twisted Amides Using Density Functional Theory and Dielectric Continuum Methods. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6099-6107.	2.5	49
14	Mono- and Multidecker Sandwich-Like Complexes of the Tetraazacyclobutadiene Aromatic Ring. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5485-5488.	13.8	42
15	Hydrogen-Bonding Interactions between Formic Acid and Pyridine. <i>Journal of Physical Chemistry A</i> , 2002, 106, 4187-4191.	2.5	41
16	ALUMINIUM IN BIOLOGICAL ENVIRONMENTS: A COMPUTATIONAL APPROACH. <i>Computational and Structural Biotechnology Journal</i> , 2014, 9, e201403002.	4.1	41
17	A study of the coordination shell of aluminum(III) and magnesium(II) in model protein environments: Thermodynamics of the complex formation and metal exchange reactions. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 374-384.	3.5	40
18	Sandwich Complexes Based on the Al_4I_2 Aromatic Ring. <i>Chemistry - A European Journal</i> , 2006, 12, 4495-4502.	3.3	40

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19	On the Affinity Regulation of the Metal-Ion-Dependent Adhesion Sites in Integrins. <i>Journal of the American Chemical Society</i> , 2006, 128, 3554-3563.	13.7	39
20	Quantum mechanical calculations on phosphate hydrolysis reactions. <i>Journal of Computational Chemistry</i> , 2000, 21, 43-51.	3.3	37
21	Small clusters of group-(II-VI) materials: Zn_iX_{i+1} , $X=Se, Te$, $i=1-9$. <i>Physical Review A</i> , 2001, 64, .	2.5	36
22	The aromaticity of dicupra[10]annulenes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9669-9675.	2.8	33
23	A theoretical study of the principles regulating the specificity for Al(III) against Mg(II) in protein cavities. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1192-1200.	3.5	31
24	Reaction Mechanism of the Acidic Hydrolysis of Highly Twisted Amides: A Rate Acceleration Caused by the Twist of the Amide Bond. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15000-15011.	2.6	28
25	Comparison of Ti, Zr, and Hf as Cations for Metallocene-Catalyzed Olefin Polymerization. <i>Organometallics</i> , 2006, 25, 4483-4490.	2.3	26
26	Aluminum(III) Interactions with the Acidic Amino Acid Chains. <i>Journal of Physical Chemistry A</i> , 1998, 102, 7006-7012.	2.5	25
27	Endohedral Stannaspherenes $Mn@Sn_{12}$ and its Dimer: Ferromagnetic or Antiferromagnetic?. <i>ChemPhysChem</i> , 2007, 8, 2096-2099.	2.1	24
28	The Electronic Structure of the Al_3^{3-} Anion: Is it Aromatic?. <i>Chemistry - A European Journal</i> , 2015, 21, 9610-9614.	3.3	23
29	Atomic configuration-interaction electron-electron counterbalance densities. <i>Physical Review A</i> , 1999, 59, 4255-4258.	2.5	22
30	Aluminum(III) Interactions with the Acid Derivative Amino Acid Chains. <i>Journal of Physical Chemistry A</i> , 2000, 104, 7053-7060.	2.5	22
31	Clusters of Group II-VI Materials: Cd_iO_i ($i=1-15$). <i>Journal of Physical Chemistry A</i> , 2003, 107, 9918-9923.	2.5	22
32	Protein Side Chains Facilitate Mg/Al Exchange in Model Protein Binding Sites. <i>ChemPhysChem</i> , 2007, 8, 2119-2124.	2.1	22
33	Re-examination of the C_6Li_6 Structure: To Be, or not To Be Symmetric. <i>Chemistry - A European Journal</i> , 2013, 19, 12668-12672.	3.3	20
34	The electronic states of Fe^{2+} . <i>Chemical Physics Letters</i> , 2003, 376, 310-317.	2.6	19
35	The first solvation shell of aluminum (III) and magnesium (II) cations in a protein model environment. <i>International Journal of Quantum Chemistry</i> , 2004, 98, 409-424.	2.0	19
36	Ab-Initio Studies of Alternant X_2Y_2 Rings ($X = N, P, As, and Sb$ and $Y = O, S, Se, and Te$). Planar versus Butterfly Structures. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5574-5579.	2.5	18

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37	The separation of the dynamical and non-dynamical electron correlation effects. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 275-283.	1.5	18
38	Vibrational spectroscopy of self-assembling aromatic peptide derivatives. Journal of Raman Spectroscopy, 2012, 43, 1397-1406.	2.5	18
39	Aluminum (III) interactions with the side chains of aromatic aminoacids. International Journal of Quantum Chemistry, 2002, 90, 859-881.	2.0	17
40	Discordant results on the FeO+ + H ₂ reaction reconciled by quantum Monte Carlo theory. Molecular Physics, 2004, 102, 2635-2637.	1.7	17
41	Bound excited states of H ⁻ and He ⁻ in the statically screened Coulomb potential. Physical Review A, 1998, 57, 2550-2555.	2.5	16
42	Electronic excitation energies of ZnSi nanoparticles. Nanotechnology, 2006, 17, 4100-4105.	2.6	16
43	Sandwich Complexes of the Metalloaromatic $\text{Al}^{\text{III}}\text{-Al}^{\text{III}}\text{-R}^{\text{III}}$ Ligand. Journal of the American Chemical Society, 2009, 131, 6949-6951.	13.7	16
44	Asymmetric Synthesis of Adjacent Tri- and Tetrasubstituted Carbon Stereocenters: Organocatalytic Aldol Reaction of an Hydantoin Surrogate with Azaarene α -Carbaldehydes. Chemistry - A European Journal, 2019, 25, 12431-12438.	3.3	15
45	sp ³ Hybrid orbitals and ionization energies of methane from PNOF5. Chemical Physics Letters, 2012, 531, 272-274.	2.6	14
46	Doped Aluminum Cluster Anions: Size Matters. Journal of Physical Chemistry A, 2014, 118, 4309-4314.	2.5	14
47	Aluminum (III) Interactions with Sulfur-Containing Amino Acid Chains. Journal of Physical Chemistry A, 2001, 105, 7446-7453.	2.5	12
48	Incremental binding free energies of aluminum (III) vs. magnesium (II) complexes. Chemical Physics, 2003, 295, 175-184.	1.9	11
49	Complexation of Al ^{III} by Aromatic Amino Acids in the Gas Phase. Inorganic Chemistry, 2007, 46, 6413-6419.	4.0	11
50	The stability of biradicaloid <i>versus</i> closed-shell $[\text{E}(\frac{1}{4}\text{-XR})]_2$ (E = P, As; X = N, P, As) rings. Does aromaticity play a role?. Physical Chemistry Chemical Physics, 2016, 18, 11879-11884.	2.8	11
51	Magnetic Endohedral Transition-Metal-Doped Semiconducting Nanoclusters. Chemistry - A European Journal, 2008, 14, 8547-8554.	3.3	10
52	Atomic charge states in a weakly coupled plasma environment. Physical Review E, 2002, 66, 026408.	2.1	9
53	Assessment of Approximate Density Functional Methods for the Study of the Interactions of Al(III) with Aromatic Amino Acids. Journal of Chemical Theory and Computation, 2007, 3, 1830-1836.	5.3	8
54	Electronic structures of the bound excited quartet states of the helium anion. Physical Review A, 1999, 60, 4375-4378.	2.5	7

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55	Structural and optical properties of the naked and passivated Al ₅ Au ₅ bimetallic nanoclusters. Journal of Chemical Physics, 2016, 144, 114302.	3.0	6
56	The electron-pair density distribution of the ^{1,3} Î _u excited states of H ₂ . Canadian Journal of Chemistry, 2016, 94, 998-1001.	1.1	5
57	Doping Platinum with Germanium: An Effective Way to Mitigate the CO Poisoning. ChemPhysChem, 2021, 22, 1603-1610.	2.1	5
58	Molecular and Electronic Structures of TiXH ₆ ⁺ (X = B, Al, Ga) Compounds. Journal of Physical Chemistry A, 1997, 101, 5953-5957.	2.5	4
59	Does the composition in PtGe clusters play any role in fighting CO poisoning?. Journal of Chemical Physics, 2022, 156, 174301.	3.0	3
60	Molecular and Electronic Structures of (TiXH ₆) ^{0/-} , X = B, Al, Ga, Compounds. Journal of Physical Chemistry A, 1998, 102, 2055-2064.	2.5	2
61	Experiment and Theory Clarify: Sc + Receives One Oxygen Atom from SO ₂ to Form ScO + , which Proves to be a Catalyst for the Hidden Oxygen-Exchange with SO ₂ . ChemPhysChem, 2021, , .	2.1	2
62	Mono- and Multidecker Sandwich-Like Complexes of the Tetraazacyclobutadiene Aromatic Ring.. ChemInform, 2004, 35, no.	0.0	0
63	Clusters of II?VI Materials: Cd _i X _i , X: S, Se, Te, i ? 16.. ChemInform, 2005, 36, no.	0.0	0
64	Frontispiece: The Electronic Structure of the Al ₃ ⁻ Anion: Is it Aromatic?. Chemistry - A European Journal, 2015, 21, n/a-n/a.	3.3	0
65	Electronic Structure and Electron Delocalization in Bare and Dressed Boron Pentamer Clusters. Journal of Physical Chemistry A, 2021, 125, 5246-5255.	2.5	0
66	Building machine learning assisted phase diagrams: Three chemically relevant examples. AIP Advances, 2022, 12, 075206.	1.3	0