Julian Cruz-Borbolla

List of Publications by Citations

64 papers	801 citations	14 h-index	26 g-index
67 ext. papers	933 ext. citations	3.1 avg, IF	3.92 L-index

#	Paper	IF	Citations
64	Development of a predictive model for corrosion inhibition of carbon steel by imidazole and benzimidazole derivatives. *Corrosion Science*, **2016**, 108, 23-35	6.8	130
63	A new specific mechanism for the acid catalysis of the addition step in the Baeyer-Villiger rearrangement. *Organic Letters*, **2006**, 8, 1763-5	6.2	81
62	Reactivity properties of derivatives of 2-imidazoline: an ab initio DFT study. *International Journal of Quantum Chemistry*, **2001**, 85, 546-556	2.1	79
61	Interaction of Imidazoline Compounds with Fen (n = 1–4 Atoms) as a Model for Corrosion Inhibition: DFT and Electrochemical Studies. *Journal of Physical Chemistry C*, **2007**, 111, 9853-9866	3.8	70
60	Benzimidazole ligands in the corrosion inhibition for carbon steel in acid medium: DFT study of its interaction on Fe30 surface. *Journal of Molecular Structure*, **2016**, 1119, 314-324	3.4	33
59	Theoretical Study of the Hg2+ Recognition by 1,3-Diphenyl-Thiourea. *Journal of Physical Chemistry A*, **2003**, 107, 9000-9007	2.8	30
58	Density Functional Theory and Electrochemical Studies: Structure-Efficiency Relationship on Corrosion Inhibition. *Journal of Chemical Information and Modeling*, **2015**, 55, 2391-402	6.1	27
57	DFT studies of diimines adsorption over Fen surface (n=1, 4, 9 and 14) as a model for metal surface coating. *Chemical Physics Letters*, **2010**, 485, 142-151	2.5	24
56	The influence of iodide in corrosion inhibition by organic compounds on carbon steel: Theoretical and experimental studies. *Applied Surface Science*, **2020**, 514, 145928	6.7	23
55	Surface tension of hydrocarbon chains at the liquid–vapour interface. *Molecular Physics*, **2008**, 106, 1055-1059	1.7	23
54	Substituent effects in the migration step of the Baeyer-Villiger rearrangement. A theoretical study. *Journal of Physical Chemistry A*, **2005**, 109, 3383-90	2.8	22
53	Pyrite–Arsenopyrite Galvanic Interaction and Electrochemical Reactivity. *Journal of Physical Chemistry C*, **2008**, 112, 10453-10461	3.8	20
52	Subtle C–H···Hal (Hal = Cl, Br) Bonding as Predominant Synthon in the Assembly of Supramolecular Architectures Based on Luminescent Tin(IV) Complexes. Crystallography, Hirshfeld Surfaces, DFT Calculations, and Fluorescence. *Crystal Growth and Design*, **2014**, 14, 3742-3757	3.5	17
51	DFT studies on the phenol and thiophenol interaction on an undecagold cluster surface. *Chemical Physics Letters*, **2008**, 455, 64-71	2.5	16
50	DFT analysis: Fe4 cluster and Fe(110) surface interaction studies with pyrrole, furan, thiophene, and selenophene molecules. *Structural Chemistry*, **2014**, 25, 115-126	1.8	14
49	Formal synthesis of (−)-laflustramine B and its absolute configuration assignment by vibrational circular dichroism exciton chirality. *Tetrahedron: Asymmetry*, **2015**, 26, 710-720		12
48	Study on the intramolecular transannular chalcogen–tin interactions in dithiastannecine compounds. *Polyhedron*, **2012**, 33, 367-377	2.7	11

47	Synthesis of Ir(III) complexes with Tp(Me2) and acac ligands and their reactivity with electrophiles. *Dalton Transactions*, **2015**, 44, 13881-9	4.3	10
46	Synthesis, structural study and biological activity of new derivatives of chrysin containing a 2-mercaptopyridyl or 5-(trifluoromethyl)-2-mercaptopyridyl fragments. *Journal of Molecular Structure*, **2016**, 1110, 196-207	3.4	10
45	Experimental and theoretical studies of CH?M interactions in palladium and platinum complexes derived from 1,2-bis-(2-hydroxymethylphenylthio)ethane. *Polyhedron*, **2015**, 87, 181-193	2.7	9
44	Electrochemical and theoretical studies of the interactions of a pyridyl-based corrosion inhibitor with iron clusters (Fe, Fe, Fe, and Fe). *Journal of Molecular Modeling*, **2017**, 23, 342	2	9
43	Absolute configuration assignment of 3-oxindolylacetyl-4-phenyloxazolidinone derivatives. *Tetrahedron: Asymmetry*, **2011**, 22, 2085-2098		9
42	Spectroscopic studies and molecular modelling of the aflatoxin M1-bovine lactalbumin complex formation. *Journal of Photochemistry and Photobiology B: Biology*, **2020**, 209, 111957	6.7	8
41	Mechanosynthesis of Photochromic Oligophenyleneimines: Optical, Electrochemical and Theoretical Studies. *Molecules*, **2019**, 24,	4.8	7
40	Ruthenium(II) complexes containing benzimidazolic tripodal ligands. *Inorganica Chimica Acta*, **2015**, 431, 258-265	2.7	7
39	Mathematical Models Generated for the Prediction of Corrosion Inhibition Using Different Theoretical Chemistry Simulations. *Materials*, **2020**, 13,	3.5	6
38	A new computational model for the prediction of toxicity of phosphonate derivatives using QSPR. *Molecular Diversity*, **2018**, 22, 269-280	3.1	6
37	Orlistat interaction with sibutramine and carnitine. A physicochemical and theoretical study. *Journal of Molecular Structure*, **2014**, 1062, 1-12	3.4	6
36	Effects of bentonite on p-methoxybenzyl acetate: a theoretical model for oligomerization via an electrophilic-substitution mechanism. *Molecules*, **2011**, 16, 1761-75	4.8	6
35	2-Cyano-2-indolylpropanoic acid as a chiral derivatizing agent for the absolute configuration assignment of secondary alcohols and primary amines by 1 H NMR and VCD. *Tetrahedron: Asymmetry*, **2017**, 28, 762-782		5
34	On the interaction of anisole and thioanisole derivatives with gold clusters studied by DFT. *Computational and Theoretical Chemistry*, **2018**, 1126, 54-64	2	5
33	Fe n Clusters (n = 2) Interaction with Furan Ring: DFT Studies over Iron Surface Suitability for Furan Adsorption. *Journal of Cluster Science*, **2011**, 22, 459-471	3	5
32	Reduced density gradient as a novel approach for estimating QSAR descriptors, and its application to 1, 4-dihydropyridine derivatives with potential antihypertensive effects. *Journal of Molecular Modeling*, **2016**, 22, 296	2	4
31	Activation of aldehydes by exocyclic iridium(i)- diene complexes derived from 1,3-oxazolidin-2-ones. *Dalton Transactions*, **2016**, 45, 16878-16888	4.3	4
30	Determination of antibiotics in feedstuff samples by microemulsion electrokinetic chromatography using fullerene as additive. *Electrophoresis*, **2018**, 39, 2228-2235	3.6	4

29	Absolute configuration assignment of 3-indolylacetate esters. *Tetrahedron: Asymmetry*, **2012**, 23, 1279-1293		4
28	Synthesis, Raman, X-ray diffraction, and density functional studies of antimony(III) heterotetracycles displaying intramolecular transannular interactions O -Sb. *Structural Chemistry*, **2013**, 24, 1555-1564	1.8	4
27	CO substitution vs C Si cleavage in the reactions of [(H)M3(CO)9(CCSiR3)] (M = Ru, R = Me, Ph; M = Os, R = Me) with tertiary phosphines: Experimental and theoretical studies. *Inorganica Chimica Acta*, **2019**, 492, 8-17	2.7	3
26	Theoretical and experimental studies of phenol oxidation by ruthenium complex with N,N,N-tris(benzimidazol-2yl-methyl)amine. *Journal of Molecular Modeling*, **2015**, 21, 224	2	3
25	A theoretical and experimental approach to evaluate zein-calcium interaction in nixtamalization process. *Food Chemistry*, **2019**, 297, 124995	8.5	3
24	Structural differences in eight- and ten-membered heterocyclic tin compounds displaying transannular interactions O?Sn: An experimental and theoretical study. *Polyhedron*, **2012**, 40, 1-10	2.7	3
23	Synthetic, spectroscopic and structural behavior of unsaturated functionalized N-heterocyclic carbene complexes of group 11. *Polyhedron*, **2017**, 137, 97-111	2.7	3
22	Intramolecular interactions SnO in organotin heterocyclic compounds [{O(C6H4CH2)}SnBr2]. *Inorganic Chemistry Communication*, **2018**, 97, 44-48	3.1	3
21	Synthesis and Characterization of Amide Stationary Phases for the Determination of Sulfonamides by Sequential Injection Chromatography. *Analytical Letters*, **2016**, 49, 676-689	2.2	2
20	Palladium(II) complexes bearing di-(2-picolyl)amine functionalized chrysin fragments. An experimental and theoretical study. *Journal of Molecular Structure*, **2017**, 1145, 112-120	3.4	2
19	Activation of PtO and PtH bonds: DFT studies on adsorption of [Gd(H2O)n]3+ (n = 8) with Ptn (n = 3) cluster. *Computational and Theoretical Chemistry*, **2014**, 1047, 47-54	2	2
18	DFT and docking studies of rhodostreptomycins A and B and their interactions with solvated/nonsolvated Mg+ and Ca+ ions. *Journal of Molecular Modeling*, **2013**, 19, 4823-36	2	2
17	Synthesis and structural characterization of 10 Group metal complexes with anionic tridentate S,N,N donor Schiff bases derived from pyridylbenzothiazolines. *Polyhedron*, **2017**, 135, 169-179	2.7	2
16	Synthesis, X-ray diffraction, and density functional studies of tin(IV) compounds containing a pincer-type SNS ligand. *Structural Chemistry*, **2015**, 26, 189-198	1.8	2
15	Theoretical studies on iron surface coating: adsorption of furan derivatives over Fe(n) clusters (n = 1-4). *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 5483-90	1.3	2
14	Structural Changes in CuII Complexes of Potential Octadentate Ligands by Coordination with Carboxylate/Carboxylic Acid: DFT, TD-DFT, and Experimental Studies. *Australian Journal of Chemistry*, **2010**, 63, 965	1.2	2
13	Preferred Binding of Carboxylates by Chiral Urea Derivatives Containing Phenylethyl Group. *Helvetica Chimica Acta*, **2016**, 99, 416-424	2	2
12	Synthesis and characterization of azathiaethers macrocyclic rings decorated with one or two 2-pyridylmethyl fragments. *Journal of Molecular Structure*, **2019**, 1176, 54-65	3.4	1

List of Publications

11	Reaction mechanism for hydrogen production using the Pd4 cluster and formic acid by DFT. *Chemical Physics Letters*, **2020**, 755, 137794	2.5	1
10	Coordination from Heteroscorpionate Ligand Towards Pd(II) via Pd???HC(sp3) Interaction: Structural and Catalytic Studies. *European Journal of Inorganic Chemistry*, **2021**, 2021, 2661-2668	2.3	1
9	Coordination diversity in tin compounds with bis(benzoxazole)phenol as a polydentate ligand: Synthesis and crystal structure studies. *Journal of Coordination Chemistry*, **2018**, 71, 3790-3805	1.6	1
8	Understanding of benzimidazole based ionic liquid as an efficient corrosion inhibitor for carbon steel: Experimental and theoretical studies. *Journal of Molecular Liquids*, **2022**, 358, 119204	6	1
7	Synthesis and characterization of organopalladium(II) complexes of N,N,S-tridentate sulfur-containing Schiff bases derived from 2-(2-pyridyl)benzothiazolines. *Polyhedron*, **2022**, 214, 115635	2.7	0
6	Nonconventional CH···Cu Interaction Between Copper Cun Clusters (n = 3–20) and Aromatic Compounds. *Journal of Cluster Science*, **2020**, 32, 1155	3	0
5	Theoretical study: Electronic structure and receptor interaction of four type bis-1,4-dihydropyridine molecules. *Computational and Theoretical Chemistry*, **2018**, 1123, 102-110	2	0
4	CH ?Pd interactions in palladium complexes derived from tetrasulfur-difluorinated ligands. Experimental, computational and catalytic studies. *Polyhedron*, **2019**, 173, 114115	2.7	
3	Synthesis and Mechanosynthesis of N, N-bis (thylthyenil)-2,3-butanediimine with Corrosion Inhibitor Properties. *Advanced Materials Research*, **2014**, 976, 64-69	0.5	
2	Reactivity of TpMe2Ir(C2H4)(DMAD) with carboxylic acids. A DFT study on geometrical isomers and structural characterization. *Journal of Organometallic Chemistry*, **2011**, 696, 748-757	2.3	
1	The chemical reactivity and QSPR of organic compounds applied to dye-sensitized solar cells using DFT. *Journal of Molecular Graphics and Modelling*, **2021**, 104, 107852	2.8	