

Carolina Estarellas

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Supramolecular Self-Assembly of M-IDA Complexes Involving Lone-Pair \cdots Interactions: Crystal Structures, Hirshfeld Surface Analysis, and DFT Calculations [H ₂ IDA = iminodiacetic acid, M = Cu(II), Ni(II)]. <i>Crystal Growth and Design</i> , 2011, 11, 3250-3265.	3.0	304
2	Cooperativity in multiple unusual weak bonds. <i>Theoretical Chemistry Accounts</i> , 2010, 126, 1-14.	1.4	254
3	Relevant Anion \cdots Interactions in Biological Systems: The Case of Urate Oxidase. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 415-418.	13.8	164
4	Quantification of Nitrate \cdots Interactions and Selective Transport of Nitrate Using Calix[4]pyrroles with Two Aromatic Walls. <i>Journal of the American Chemical Society</i> , 2013, 135, 8324-8330.	13.7	147
5	Supramolecular assemblies involving anion \cdots and lone pair \cdots interactions: experimental observation and theoretical analysis. <i>CrystEngComm</i> , 2011, 13, 4519.	2.6	86
6	Very Long-Range Effects: Cooperativity between Anion \cdots and Hydrogen-Bonding Interactions. <i>ChemPhysChem</i> , 2009, 10, 2256-2264.	2.1	80
7	Theoretical Study on Cooperativity Effects between Anion \cdots and Halogen-Bonding Interactions. <i>ChemPhysChem</i> , 2011, 12, 2742-2750.	2.1	79
8	Supramolecular Assembly of Mg(II) Complexes Directed by Associative Lone Pair \cdots Anion \cdots Lone Pair Interactions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4998-5009.	2.6	78
9	On the directionality of anion \cdots interactions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5696.	2.8	78
10	Experimental and theoretical study of uracil derivatives: the crucial role of weak fluorine \cdots fluorine noncovalent interactions. <i>CrystEngComm</i> , 2010, 12, 3758.	2.6	60
11	Simultaneous Interaction of Tetrafluoroethene with Anions and Hydrogen-Bond Donors: A Cooperativity Study. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1186-1194.	5.3	52
12	Energetic vs Synergetic Stability: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3266-3273.	2.5	52
13	Anion \cdots Interactions in Flavoproteins. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2316-2318.	3.3	52
14	Trinuclear and tetranuclear adduct formation between sodium perchlorate and copper(II) complexes of salicylaldehyde type ligands: Structural characterization and theoretical investigation. <i>Inorganica Chimica Acta</i> , 2011, 366, 219-226.	2.4	51
15	Concurrent mutations in RNA-dependent RNA polymerase and spike protein emerged as the epidemiologically most successful SARS-CoV-2 variant. <i>Scientific Reports</i> , 2021, 11, 13705.	3.3	45
16	Interplay between cation \cdots and hydrogen bonding interactions: Are non-additivity effects additive?. <i>Chemical Physics Letters</i> , 2009, 479, 316-320.	2.6	42
17	2-Aminopyrimidine Derivatives Exhibiting Anion \cdots Interactions: A Combined Crystallographic and Theoretical Study. <i>Crystal Growth and Design</i> , 2009, 9, 2363-2376.	3.0	39
18	Lone pair \cdots vs \cdots interactions in 5-fluoro-1-hexyluracil and 1-hexyluracil: a combined crystallographic and computational study. <i>CrystEngComm</i> , 2010, 12, 362-365.	2.6	39

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19	Anion- π Interactions in Four-Membered Rings. <i>Organic Letters</i> , 2009, 11, 1987-1990.	4.6	38
20	Design of a dual sensing highly selective cyanide chemodosimeter based on pyridinium ring chemistry. <i>New Journal of Chemistry</i> , 2011, 35, 57-60.	2.8	34
21	Theoretical ab initio study of the interplay between hydrogen bonding, cation- π and π - π interactions. <i>Theoretical Chemistry Accounts</i> , 2009, 122, 325-332.	1.4	31
22	Multiple Multicomponent Reactions: Unexplored Substrates, Selective Processes, and Versatile Chemotypes in Biomedicine. <i>Chemistry - A European Journal</i> , 2018, 24, 14513-14521.	3.3	31
23	Insertion of Isocyanides into N-Si Bonds: Multicomponent Reactions with Azines Leading to Potent Antiparasitic Compounds. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8994-8998.	13.8	28
24	Combining Machine Learning and Enhanced Sampling Techniques for Efficient and Accurate Calculation of Absolute Binding Free Energies. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4641-4654.	5.3	26
25	Synthesis and Crystal Structures of μ_2 -Oxido- and μ_2 -Hydroxido-Bridged Dinuclear Iron(III) Complexes with an N ₂ O Donor Ligand - A Theoretical Study on the Influence of Weak Forces on the Fe-O-Fe Bridging Angle. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2558-2566.	2.0	24
26	Hydrogen-bond assisted stabilization of the less favored conformation of a tridentate Schiff base ligand in dinuclear nickel(II) complex: An experimental and theoretical study. <i>Inorganica Chimica Acta</i> , 2010, 363, 3904-3913.	2.4	23
27	Unexpected Nonadditivity Effects in Anion- π Complexes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7849-7857.	2.5	23
28	A methodological analysis for the assessment of non-covalent π interactions. <i>Chemical Physics Letters</i> , 2011, 508, 144-148.	2.6	23
29	Theoretical and Crystallographic Study of the Dual π/π Anion Binding Affinity of Quinolizinylium Cation. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1981-1989.	5.3	21
30	Theoretical and crystallographic study of edge-to-face aromatic interactions between pyridine moieties and benzene. <i>Chemical Physics Letters</i> , 2009, 468, 280-285.	2.6	21
31	Erroneous behaviour of the widely used MP2(full)/aug-cc-pVXZ (X=D,T) level of theory for evaluating the BSSE in ion- π complexes. <i>Chemical Physics Letters</i> , 2010, 489, 254-258.	2.6	20
32	Molecular dynamic simulations of protein/RNA complexes: CRISPR/Csy4 endoribonuclease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1072-1090.	2.4	20
33	A Combined Experimental and Theoretical Study of Anion- π Interactions in <i>N</i> ⁶ - and <i>N</i> ⁹ - Δ -Decyladenine Salts. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 5171-5180.	2.4	19
34	Easy access to (2-imidazolin-4-yl)phosphonates by a microwave assisted multicomponent reaction. <i>Tetrahedron</i> , 2015, 71, 2872-2881.	1.9	19
35	RNAs' uracil quartet model with a non-essential metal ion. <i>Chemical Communications</i> , 2011, 47, 4646.	4.1	16
36	Can lone pair- π and cation- π interactions coexist? A theoretical study. <i>Open Chemistry</i> , 2011, 9, 25-34.	1.9	14

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37	Cooperativity effects between non-covalent interactions: Are they important for Z-DNA stability?. <i>Chemical Physics Letters</i> , 2010, 485, 221-225.	2.6	13
38	Radical cation (C ^{•+}) and radical anion (A ^{•-}) interactions with aromatic rings: energetic, orbitalic and spin density considerations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16698.	2.8	13
39	Effect of a methyl group on the spontaneous resolution of a square-pyramidal coordination compound: crystal packing and conglomerate formation. <i>CrystEngComm</i> , 2012, 14, 5854.	2.6	13
40	MP2 Study of the Dual π -Anion-Binding Affinity of Fluorinated Phthalic Acid Anhydrides. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1622-1626.	2.5	12
41	Anion- π Interactions Involving [MX _n] ^{m+} Anions: A Comprehensive Theoretical Study. <i>ChemPhysChem</i> , 2013, 14, 145-154.	2.1	11
42	New Chlorido(dimethyl sulfoxide)iridium(III) Complexes with N6-Substituted Adenines - Kinetic N(7) versus Thermodynamic N(9) Coordinated Adenine Isomers. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5617-5628.	2.0	10
43	Understanding the Mechanism of Direct Activation of AMP-Kinase: Toward a Fine Allosteric Tuning of the Kinase Activity. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 2859-2870.	5.4	10
44	Structural basis of the selective activation of enzyme isoforms: Allosteric response to activators of β 1- and β 2-containing AMPK complexes. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3394-3406.	4.1	10
45	Synthesis, X-ray characterization and computational Studies of N-imidazolyl and N-pyrazolyl pyrimidine derivatives. <i>Tetrahedron</i> , 2012, 68, 2374-2382.	1.9	8
46	Amphiphilic Histidine-Based Oligopeptides Exhibit pH-Reversible Fibril Formation. <i>ACS Macro Letters</i> , 2021, 10, 984-989.	4.8	8
47	Theoretical ab initio study of substituted benzene trimer: Interplay between hydrogen bonding and π - π interactions. <i>Computational and Theoretical Chemistry</i> , 2011, 975, 106-110.	2.5	7
48	Stereocontrolled Annulations of Indolo[2,3-a]quinolizidine-Derived Lactams with a Silylated Nazarov Reagent: Access to Allo and Epiallo Yohimbine-Type Derivatives. <i>Chemistry - A European Journal</i> , 2015, 21, 13382-13389.	3.3	7
49	Insertion of Isocyanides into N-Si Bonds: Multicomponent Reactions with Azines Leading to Potent Antiparasitic Compounds. <i>Angewandte Chemie</i> , 2016, 128, 9140-9144.	2.0	7
50	Origin of the Base-Dependent Facial Selectivity in Annulation Reactions of Nazarov-Type Reagents with Unsaturated Indolo[2,3-a]quinolizidine Lactams. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 3969-3979.	2.4	5
51	Modulating Ligand Dissociation through Methyl Isomerism in Accessory Sites: Binding of Retinol to Cellular Carriers. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7333-7339.	4.6	5
52	Kinetics and mechanism of the oxidation of hydroxylamine by a {Mn3O4}4+ core in aqueous acidic media. <i>Dalton Transactions</i> , 2011, 40, 9571.	3.3	2
53	A Highly Selective Fluorescence Turn-on Probe for Zn ²⁺ Based on New Diaryloxadiazole Chelate. <i>Chemistry Letters</i> , 2011, 40, 1163-1164.	1.3	2
54	Short Access to Belt Compounds with Spatially Close C-C Bonds and Their Transannular Reactions. <i>Chemistry - A European Journal</i> , 2015, 21, 14036-14046.	3.3	2

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55	Novel indolic AMPK modulators induce vasodilatation through activation of the AMPK-eNOS-NO pathway. <i>Scientific Reports</i> , 2022, 12, 4225.	3.3	2
56	Generation and Reactions of an Octacyclic Hindered Pyramidalized Alkene. <i>Journal of Organic Chemistry</i> , 2018, 83, 5420-5430.	3.2	1
57	Elucidating the Activation Mechanism of AMPK by Direct Pan-Activator PF-739. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 760026.	3.5	1