

Miquel BarcelÀ³-Oliver

List of Publications by Year in descending order

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71
papers

1,358
citations

331670

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72
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72
docs citations

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1396
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#	ARTICLE	IF	CITATIONS
1	Phenanthroline-based Ni(II) coordination compounds involving unconventional discrete fumarate-water-nitrate clusters and energetically significant cooperative ternary π -stacked assemblies: Antiproliferative evaluation and theoretical studies. <i>Journal of Molecular Structure</i> , 2022, 1248, 131424.	3.6	10
2	Oxalic Acid, a Versatile Coformer for Multicomponent Forms with 9-Ethyladenine. <i>Crystals</i> , 2022, 12, 89.	2.2	3
3	Structural topologies involving energetically significant antiparallel π -stacking and unconventional N(nitrile) \cdots π (fumarate) contacts in dinuclear Zn(μ -) and polymeric Mn(μ -) compounds: antiproliferative evaluation and theoretical studies. <i>New Journal of Chemistry</i> , 2022, 46, 5296-5311.	2.8	7
4	Solvent-driven structural topologies in phenanthroline-based co-crystals of Zn(μ -) involving fascinating infinite chair-like $\{[(bzH)_4Cl]_2\}^{2+}$ assemblies and unconventional layered infinite $\{bz-H_2O-Cl\}$ anion-water clusters: antiproliferative evaluation and theoretical studies. <i>New Journal of Chemistry</i> , 2022, 46, 5638-5652.	2.8	4
5	INTERLABORATORY VIRTUAL COLLABORATIVE EXPERIENCES IN CHEMISTRY LABS. INTED Proceedings, 2022, , .	0.0	0
6	Terephthalato and succinato bridged Mn(II) and Zn(II) coordination polymers involving structure-guiding H-bonded tetrameric assemblies: Antiproliferative evaluation and theoretical studies. <i>Polyhedron</i> , 2022, 224, 115982.	2.2	3
7	Supramolecular assemblies involving unconventional non-covalent contacts in pyrazole-based coordination compounds of Co(II) and Cu(II) pyridinedicarboxylates: Antiproliferative evaluation and theoretical studies. <i>Polyhedron</i> , 2022, 224, 116025.	2.2	2
8	Energetically significant nitrile \cdots nitrile and unconventional C \cdots H \cdots π (nitrile) interactions in pyridine based Ni(II) and Zn(II) coordination compounds: Antiproliferative evaluation and theoretical studies. <i>Journal of Molecular Structure</i> , 2021, 1223, 129246.	3.6	13
9	Scientific Activities for the Engagement of Undergraduate Students in the Separation and Recycling of Waste. <i>Journal of Chemical Education</i> , 2021, 98, 454-460.	2.3	5
10	Energetically significant cooperative π -stacked ternary assemblies in Ni(II) phenanthroline compounds involving discrete water clusters: Anticancer activities and theoretical studies. <i>Journal of Molecular Structure</i> , 2021, 1229, 129486.	3.6	17
11	Supramolecular assemblies involving biologically relevant antiparallel π -stacking and unconventional solvent driven structural topology in maleato and fumarato bridged Zn(μ -) coordination polymers: antiproliferative evaluation and theoretical studies. <i>New Journal of Chemistry</i> , 2021, 45, 13040-13055.	2.8	9
12	Deciphering the H-Bonding Preference on Nucleoside Molecular Recognition through Model Copper(II) Compounds. <i>Pharmaceuticals</i> , 2021, 14, 244.	3.8	4
13	Silver(I)-mediated base pairing in DNA involving the artificial nucleobase 7,8-dihydro-8-oxo-1,N6-etheno-adenine. <i>Journal of Inorganic Biochemistry</i> , 2021, 219, 111369.	3.5	7
14	1-Ethyluracil, a New Scaffold for Preparing Multicomponent Forms: Synthesis, Characterization, and Computational Studies. <i>Crystal Growth and Design</i> , 2021, 21, 4857-4870.	3.0	2
15	Solvent driven structural topologies involving unconventional O H(methanol) \cdots π contact and anti-cooperative HB \cdots anion \cdots HB assemblies with unusual enclathration of dual guest (H ₂ O) ₄ cores in Mn(II) and Ni(II) coordination compounds: Antiproliferative evaluation and theoretical studies. <i>Polyhedron</i> , 2021, 210, 115503.	2.2	2
16	Unconventional π -hole and Semi-coordination regium bonding interactions directed supramolecular assemblies in pyridinedicarboxylato bridged polymeric Cu(II) Compounds: Antiproliferative evaluation and theoretical studies. <i>Inorganica Chimica Acta</i> , 2021, 525, 120461.	2.4	10
17	Uracil Derivatives for Halogen-Bonded Cocrystals. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10663.	4.1	7
18	Benzoato bridged dinuclear Mn(II) and Cu(II) compounds involving guest chlorobenzoates and dimeric paddle wheel supramolecular assemblies: Antiproliferative evaluation and theoretical studies. <i>Polyhedron</i> , 2021, 208, 115409.	2.2	9

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19	Unconventional enclathration of guest adipic acid and energetically significant antiparallel π -stacked ternary assemblies involving unusual regium- π (chelate) contacts in phenanthroline-based Ni(II) and Cu(II) compoundsâ€”Antiproliferative evaluation and theoretical studies. <i>Journal of Molecular Structure</i> , 2021, 1245, 131038.	3.6	8
20	Biologically relevant unusual cooperative assemblies and fascinating infinite crown-like supramolecular nitrateâ€”water hosts involving guest complex cations in bipyridine and phenanthroline-based Cu(II) coordination compounds: antiproliferative evaluation and theoretical studies. <i>New Journal of Chemistry</i> , 2021, 45, 8269-8282.	2.8	14
21	Charge Assisted Hydrogen Bonded Assemblies and Unconventional Oâ€”O Dichalcogen Bonding Interactions in Pyrazole-Based Isostructural Ni(II) and Mn(II) Compounds Involving Anthraquinone Disulfonate: Antiproliferative Evaluation and Theoretical Studies. <i>Journal of Molecular Structure</i> , 2021, 1250, 131883.	3.6	6
22	Synthesis, reactivity, X-ray characterization and docking studies of N7/N9-(2-pyrimidyl)-adenine derivatives. <i>Journal of Inorganic Biochemistry</i> , 2020, 203, 110879.	3.5	6
23	Energetically significant unconventional Oâ€” contacts involving discrete guest (H ₂ O) ₈ clusters in a fumarato bridged polymeric supramolecular host of Ni(II) phenanthroline: Antiproliferative evaluation and theoretical studies. <i>Polyhedron</i> , 2020, 176, 114266.	2.2	23
24	Crystal structures of <i>N</i> -modified-amino acid nucleobase analogs(<i>iii</i>): adenineâ€”valeric acid, adenineâ€”hexanoic acid and adenineâ€”gabapentine. <i>New Journal of Chemistry</i> , 2020, 44, 12236-12246.	2.8	5
25	Synthesis, X-ray characterization and regium bonding interactions of a trichlorido(1-hexylcytosine)gold(<i>iii</i>) complex. <i>Chemical Communications</i> , 2020, 56, 3524-3527.	4.1	28
26	Adipato bridged novel hexanuclear Cu(II) and polymeric Co(II) coordination compounds involving cooperative supramolecular assemblies and encapsulated guest water clusters in a square grid host: antiproliferative evaluation and theoretical studies. <i>Dalton Transactions</i> , 2020, 49, 9863-9881.	3.3	27
27	Iridium(III) coordination of N(6) modified adenine derivatives with aminoacid chains. <i>Journal of Inorganic Biochemistry</i> , 2020, 205, 111000.	3.5	7
28	9-Ethyladenine: Mechanochemical Synthesis, Characterization, and DFT Calculations of Novel Cocrystals and Salts. <i>Crystal Growth and Design</i> , 2020, 20, 2985-2997.	3.0	8
29	Probing the effect of N-alkylation on the molecular recognition abilities of the major groove N7-binding site of purine ligands. <i>Journal of Inorganic Biochemistry</i> , 2019, 200, 110801.	3.5	2
30	Adenine as a Halogen Bond Acceptor: A Combined Experimental and DFT Study. <i>Crystals</i> , 2019, 9, 224.	2.2	16
31	RECYCLING OF WASTE: A POWERFUL TOOL AS AN ACTIVE LEARNING METHODOLOGY FOR SCIENCE UNDERGRADUATES. , 2019, , .		0
32	EXPERIMENTAL LEARNING EXPERIENCES ORCHESTRATED BY UNDERGRADUATE COLLEGE STUDENTS TO ACTIVELY ENGAGE MIDDLE SCHOOL STUDENTS IN FOOD WASTE RECYCLING. , 2019, , .		0
33	Cu(II)â€”N6-Alkyladenine Complexes: Synthesis, X-ray Characterization and Magnetic Properties. <i>Magnetochemistry</i> , 2018, 4, 24.	2.4	2
34	ADDRESSING THE OBJECTIVES FOR A SUSTAINABLE DEVELOPMENT: EXPLAINING SCIENCE BEYOND RESIDUES SEPARATION AND RECYCLING. , 2018, , .		0
35	X-ray Crystal Structure of a Metalled Doubleâ€”Helix Generated by Infinite and Consecutive C*â€”Ag(¹)â€”C* (C*:N ¹ â€”Hexylcytosine) Base Pairs through Argentophilic and Hydrogen Bond Interactions. <i>Chemistry - A European Journal</i> , 2017, 23, 2103-2108.	3.3	41
36	Nuclearity versus oxidation state in the catalytic efficiency of Mn(II/III)â€”azo Schiff base complexes: computational study on supramolecular interactions and phenoxazinone synthase-like activity. <i>New Journal of Chemistry</i> , 2017, 41, 11607-11618.	2.8	10

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37	12. The Role of Lead(II) in Nucleic Acids. , 2017, 17, 403-434.		1
38	Characterization of the full-length btuB riboswitch from <i>Klebsiella pneumoniae</i> . <i>Journal of Inorganic Biochemistry</i> , 2016, 160, 106-113.	3.5	4
39	On the importance of antiparallel C Oâˆ“Câ€“F interactions in N1-(3-hydroxypropyl)-5-fluorouracilateâ€“Hg(II) complex: A combined X-ray and DFT study. <i>Inorganica Chimica Acta</i> , 2016, 452, 244-250.	2.4	27
40	Rationalization of Noncovalent Interactions within Six New M^{II}/8-Aminoquinoline Supramolecular Complexes (M^{II} = Mn, Cu, and Cd): A Combined Experimental and Theoretical DFT Study. <i>Crystal Growth and Design</i> , 2015, 15, 1351-1361.	3.0	97
41	New chloride-dimethylsulfoxide-iridium(III) complex with histaminium. <i>Polyhedron</i> , 2015, 102, 735-740.	2.2	2
42	G proteinâ€“membrane interactions I: GÎ±1 myristoyl and palmitoyl modifications in proteinâ€“lipid interactions and its implications in membrane microdomain localization. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 1511-1520.	2.4	24
43	Triple-bridged ferromagnetic nickel(ii) complexes: A combined experimental and theoretical DFT study on stabilization and magnetic coupling. <i>Dalton Transactions</i> , 2014, 43, 6455.	3.3	28
44	Crystal structures and DFT calculations of new chlorido-dimethylsulfoxide-MIII (M = Ir, Ru, Rh) complexes with the N-pyrazolyl pyrimidine donor ligand: kinetic vs. thermodynamic isomers. <i>Dalton Transactions</i> , 2014, 43, 6353.	3.3	6
45	Syntheses, structures, properties and DFT study of hybrid inorganicâ€“organic architectures constructed from trinuclear lanthanide frameworks and Keggin-type polyoxometalates. <i>Dalton Transactions</i> , 2014, 43, 1906-1916.	3.3	73
46	Synthesis, X-ray characterization and DFT studies of bis-N-imidazolylpyrimidine salts: the prominent role of hydrogen bonding and anionâ€“Î€ interactions. <i>CrystEngComm</i> , 2014, 16, 9043-9053.	2.6	18
47	Structural characterization, recognition patterns and theoretical calculations of long-chain N-alkyl substituted purine and pyrimidine bases as ligands: On the importance of anionâ€“Î€ interactions. <i>Coordination Chemistry Reviews</i> , 2013, 257, 2705-2715.	18.8	42
48	Experimental and theoretical study of N1-hexylcytosine and N1-hexylcytosinium nitrate: the crucial role of hydrophobic and anionâ€“Î€ interactions. <i>Tetrahedron Letters</i> , 2013, 54, 5355-5360.	1.4	8
49	Metallomacrocycles as anion receptors: combining hydrogen bonding and ion pair based hosts formed from Ag(i) salts and flexible bis- and tris-pyrimidine ligands. <i>Chemical Communications</i> , 2013, 49, 4944.	4.1	16
50	Use of Metalloligands [CuL] (H₂L = Salen Type Di-Schiff Bases) in the Formation of Heterobimetallic Copper(II)-Uranyl Complexes: Photophysical Investigations, Structural Variations, and Theoretical Calculations. <i>Inorganic Chemistry</i> , 2013, 52, 7508-7523.	4.0	79
51	Experimental and theoretical studies on the coordination chemistry of the N1-hexyl substituted pyrimidines (uracil, 5-fluorouracil and cytosine). <i>Dalton Transactions</i> , 2013, 42, 7631.	3.3	12
52	Experimental and theoretical study of thymine and cytosine derivatives: the crucial role of weak noncovalent interactions. <i>CrystEngComm</i> , 2012, 14, 5777.	2.6	17
53	RNAs' uracil quartet model with a non-essential metal ion. <i>Chemical Communications</i> , 2011, 47, 4646.	4.1	16
54	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

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55	Ruthenium(III) and iridium(III) complexes with nicotine. <i>Polyhedron</i> , 2010, 29, 34-41.	2.2	27
56	Intermolecular C-H...N interactions in 1,5-diphenyl-3-(2-pyridyl)-2-pyrazoline. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2010, 66, o313-o316.	0.4	7
57	Di-μ ₄ -chlorido-bis{chlorido[(R)/(S)-1,5-diphenyl-3-(2-pyridyl)-2-pyrazoline-2-yl]zinc(II)}. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, m899-m900.	0.2	2
58	Experimental and theoretical study of uracil derivatives: the crucial role of weak fluorine-fluorine noncovalent interactions. <i>CrystEngComm</i> , 2010, 12, 3758.	2.6	60
59	Lone pair vs π 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
60	Ternary copper(II) complexes with hippurate derivatives and 1,10-phenanthroline: Synthesis and biological activity. <i>Inorganica Chimica Acta</i> , 2009, 362, 4744-4753.	2.4	10
61	2-Aminopyrimidine Derivatives Exhibiting Anion-π Interactions: A Combined Crystallographic and Theoretical Study. <i>Crystal Growth and Design</i> , 2009, 9, 2363-2376.	3.0	39
62	Ruthenium(III) complexes with modified nucleobases: N6-Substituted adenines. <i>Polyhedron</i> , 2008, 27, 2851-2858.	2.2	13
63	Anion-π Interactions in Bisadenine Derivatives: A Combined Crystallographic and Theoretical Study. <i>Inorganic Chemistry</i> , 2007, 46, 10724-10735.	4.0	104
64	A Combined Experimental and Theoretical Study of Anion-π Interactions in Bis(pyrimidine) Salts. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 5821-5825.	2.4	29
65	Biological recognition patterns implicated by the formation and stability of ternary metal ion complexes of low-molecular-weight formed with amino acid/peptides and nucleobases/nucleosides. <i>Coordination Chemistry Reviews</i> , 2007, 251, 1973-1986.	18.8	83
66	Models for thyroxine: Aromatic iodine-assisted self-assemblies. <i>Polyhedron</i> , 2007, 26, 1417-1426.	2.2	5
67	Synthesis and mass spectroscopy kinetics of a novel ternary copper(II) complex with cytotoxic activity against cancer cells. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 649-659.	3.5	69
68	Molecular architecture by means of interactions between Ag(I) and glycine derivatives. <i>Polyhedron</i> , 2006, 25, 71-80.	2.2	22
69	Uracilato and 5-halouracilato complexes of Cu(II), Zn(II) and Ni(II). X-ray structures of [Cu(uracilato-N1) ₂ (NH ₃) ₂ ·2(H ₂ O)], [Cu(5-chlorouracilato-N1) ₂ (NH ₃) ₂](H ₂ O) ₂ , [Ni(5-chlorouracilato-N1) ₂ (en) ₂ ·2H ₂ O] and [Zn(5-chlorouracilato-N1)(NH ₃) ₃ ·(5-chlorouracilato-N1)·(H ₂ O)]. <i>Journal of Inorganic Biochemistry</i> , 2004, 88, 622-638.	3.5	21
70	Ternary complexes metal [Co(II), Ni(II), Cu(II) and Zn(II)] with ortho-iodohippurate (I-hip) and acyclovir. X-ray characterization of isostructural [(Co, Ni or Zn)(I-hip) ₂ (ACV)(H ₂ O) ₃] with stacking as a recognition factor. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1703-1711.	3.5	28
71	Modified-amino acid/peptide pyrimidine analogs: synthesis, structural characterization and DFT studies of N-(pyrimidyl)gabapentine and N-(pyrimidyl)baclofen. <i>New Journal of Chemistry</i> , 0, , .	2.8	1