

Miquel BarcelÀ³-Oliver

List of Publications by Year in descending order

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71
papers

1,358
citations

331259
21
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360668
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all docs

72
docs citations

72
times ranked

1396
citing authors

#	ARTICLE	IF	CITATIONS
1	Anion- π Interactions in Bisadenine Derivatives: A Combined Crystallographic and Theoretical Study. <i>Inorganic Chemistry</i> , 2007, 46, 10724-10735.	1.9	104
2	Rationalization of Noncovalent Interactions within Six New $M^{II}/8$ -Aminoquinoline Supramolecular Complexes ($M^{II} = Mn, Cu, \text{ and } Cd$): A Combined Experimental and Theoretical DFT Study. <i>Crystal Growth and Design</i> , 2015, 15, 1351-1361.	1.4	97
3	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.	9.5	83
4	Use of Metalloligands [CuL] ($H_2L = \text{Salen Type Di-Schiff Bases}$) in the Formation of Heterobimetallic Copper(II)-Uranyl Complexes: Photophysical Investigations, Structural Variations, and Theoretical Calculations. <i>Inorganic Chemistry</i> , 2013, 52, 7508-7523.	1.9	79
5	Syntheses, structures, properties and DFT study of hybrid inorganic-organic architectures constructed from trinuclear lanthanide frameworks and Keggin-type polyoxometalates. <i>Dalton Transactions</i> , 2014, 43, 1906-1916.	1.6	73
6	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.	1.5	69
7	Experimental and theoretical study of uracil derivatives: the crucial role of weak fluorine-fluorine noncovalent interactions. <i>CrystEngComm</i> , 2010, 12, 3758.	1.3	60
8	Structural characterization, recognition patterns and theoretical calculations of long-chain N-alkyl substituted purine and pyrimidine bases as ligands: On the importance of anion- π interactions. <i>Coordination Chemistry Reviews</i> , 2013, 257, 2705-2715.	9.5	42
9	X-ray Crystal Structure of a Metalled Double-Helix Generated by Infinite and Consecutive $C^*Ag^{I} \cdots C^*$ ($C^*: N^1 \cdots$ Hexylcytosine) Base Pairs through Argentophilic and Hydrogen Bond Interactions. <i>Chemistry - A European Journal</i> , 2017, 23, 2103-2108.	1.7	41
10	2-Aminopyrimidine Derivatives Exhibiting Anion- π Interactions: A Combined Crystallographic and Theoretical Study. <i>Crystal Growth and Design</i> , 2009, 9, 2363-2376.	1.4	39
11	Lone pair- π vs π - π interactions in 5-fluoro-1-hexyluracil and 1-hexyluracil: a combined crystallographic and computational study. <i>CrystEngComm</i> , 2010, 12, 362-365.	1.3	39
12	A Combined Experimental and Theoretical Study of Anion- π Interactions in Bis(pyrâmidine) Salts. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 5821-5825.	1.2	29
13	Ternary complexes metal [$Co(II), Ni(II), Cu(II)$ and $Zn(II)$] \cdots ortho-iodohippurate (I-hip) \cdots acyclovir. X-ray characterization of isostructural [$(Co, Ni \text{ or } Zn)(I\text{-hip})_2(ACV)(H_2O)_3$] with stacking as a recognition factor. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1703-1711.	1.5	28
14	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.	1.6	28
15	Synthesis, X-ray characterization and regium bonding interactions of a trichlorido(1-hexylcytosine)gold(κ^3) complex. <i>Chemical Communications</i> , 2020, 56, 3524-3527.	2.2	28
16	Ruthenium(III) and iridium(III) complexes with nicotine. <i>Polyhedron</i> , 2010, 29, 34-41.	1.0	27
17	On the importance of antiparallel $C=O \cdots C=F$ interactions in $N1-(3\text{-hydroxypropyl})-5\text{-fluorouracilate} \cdots Hg(II)$ complex: A combined X-ray and DFT study. <i>Inorganica Chimica Acta</i> , 2016, 452, 244-250.	1.2	27
18	Adipato bridged novel hexanuclear $Cu(\kappa^2)$ and polymeric $Co(\kappa^2)$ 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.	1.6	27

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19	G proteinâ€‘membrane interactions I: GÎ±11 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.	1.2	24
20	Energetically significant unconventional O Hâ€‘Î€ 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.	1.0	23
21	Molecular architecture by means of interactions between Ag(I) and glycine derivatives. <i>Polyhedron</i> , 2006, 25, 71-80.	1.0	22
22	Uracilato and 5-halouracilato complexes of Cu(II), Zn(II) and Ni(II). X-ray structures of [Cu(uracilato-N1) ₂ (NH ₃) ₂ Â·2(H ₂ O)], [Cu(5-chlorouracilato-N1) ₂ (NH ₃) ₂](H ₂ O) ₂ , [Ni(5-chlorouracilato-N1) ₂ (en) ₂ Â·2H ₂ O] and [Zn(5-chlorouracilato-N1)(NH ₃) ₃](5-chlorouracilato-N1)Â·(H ₂ O). <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 632-638.	1.5	21
23	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.	1.3	18
24	Experimental and theoretical study of thymine and cytosine derivatives: the crucial role of weak noncovalent interactions. <i>CrystEngComm</i> , 2012, 14, 5777.	1.3	17
25	Energetically significant cooperative Î€-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.	1.8	17
26	RNAs' uracil quartet model with a non-essential metal ion. <i>Chemical Communications</i> , 2011, 47, 4646.	2.2	16
27	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.	2.2	16
28	Adenine as a Halogen Bond Acceptor: A Combined Experimental and DFT Study. <i>Crystals</i> , 2019, 9, 224.	1.0	16
29	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.	1.4	14
30	Ruthenium(III) complexes with modified nucleobases: N6-Substituted adenines. <i>Polyhedron</i> , 2008, 27, 2851-2858.	1.0	13
31	Energetically significant nitrileâ€‘nitrile and unconventional Câ€‘Hâ€‘Î€(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.	1.8	13
32	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.	1.6	12
33	Ternary copper(II) complexes with hippurate derivatives and 1,10-phenanthroline: Synthesis and biological activity. <i>Inorganica Chimica Acta</i> , 2009, 362, 4744-4753.	1.2	10
34	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.	1.0	10
35	Nuclearity versus oxidation state in the catalytic efficiency of Mn ^{II/III} azo Schiff base complexes: computational study on supramolecular interactions and phenoxazinone synthase-like activity. <i>New Journal of Chemistry</i> , 2017, 41, 11607-11618.	1.4	10
36	Unconventional Î€-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.	1.2	10

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37	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.	1.8	10
38	Supramolecular assemblies involving biologically relevant antiparallel π -stacking and unconventional solvent driven structural topology in maleato and fumarato bridged Zn(scp) coordination polymers: antiproliferative evaluation and theoretical studies. <i>New Journal of Chemistry</i> , 2021, 45, 13040-13055.	1.4	9
39	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.	1.0	9
40	Experimental and theoretical study of N1-hexylcytosine and N1-hexylcytosinium nitrate: the crucial role of hydrophobic and anion- π interactions. <i>Tetrahedron Letters</i> , 2013, 54, 5355-5360.	0.7	8
41	9-Ethyladenine: Mechanochemical Synthesis, Characterization, and DFT Calculations of Novel Cocrystals and Salts. <i>Crystal Growth and Design</i> , 2020, 20, 2985-2997.	1.4	8
42	Unconventional enclathration of guest adipic acid and energetically significant antiparallel π -stacked ternary assemblies involving unusual region- π (cholate) contacts in phenanthroline-based Ni(II) and Cu(II) compounds- Antiproliferative evaluation and theoretical studies. <i>Journal of Molecular Structure</i> , 2021, 1245, 131038.	1.8	8
43	Intermolecular C-H... π 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
44	Iridium(III) coordination of N(6) modified adenine derivatives with amino acid chains. <i>Journal of Inorganic Biochemistry</i> , 2020, 205, 111000.	1.5	7
45	Silver(I)-mediated base pairing in DNA involving the artificial nucleobase 7,8-dihydro-8-oxo-1,N6-ethenoadenine. <i>Journal of Inorganic Biochemistry</i> , 2021, 219, 111369.	1.5	7
46	Uracil Derivatives for Halogen-Bonded Cocrystals. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10663.	1.8	7
47	Structural topologies involving energetically significant antiparallel π -stacking and unconventional N(nitrile)- π (fumarate) contacts in dinuclear Zn(scp) and polymeric Mn(scp) compounds: antiproliferative evaluation and theoretical studies. <i>New Journal of Chemistry</i> , 2022, 46, 5296-5311.	1.4	7
48	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.	1.6	6
49	Synthesis, reactivity, X-ray characterization and docking studies of N7/N9-(2-pyrimidyl)-adenine derivatives. <i>Journal of Inorganic Biochemistry</i> , 2020, 203, 110879.	1.5	6
50	Charge Assisted Hydrogen Bonded Assemblies and Unconventional O TM -O TM 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.	1.8	6
51	Models for thyroxine: Aromatic iodine-assisted self-assemblies. <i>Polyhedron</i> , 2007, 26, 1417-1426.	1.0	5
52	Crystal structures of N^{6} -modified-amino acid nucleobase analogs(scp): adenine- π -valeric acid, adenine- π -hexanoic acid and adenine- π -gabapentine. <i>New Journal of Chemistry</i> , 2020, 44, 12236-12246.	1.4	5
53	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.	1.1	5
54	Di- μ -chlorido-bis{chlorido[(R)(S)-1,5-diphenyl-3-(2-pyridyl)-2-pyrazoline- N]- N^{2} zinc(II)}. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, m899-m900.	0.2	4

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55	Characterization of the full-length btuB riboswitch from <i>Klebsiella pneumoniae</i> . <i>Journal of Inorganic Biochemistry</i> , 2016, 160, 106-113.	1.5	4
56	Deciphering the H-Bonding Preference on Nucleoside Molecular Recognition through Model Copper(II) Compounds. <i>Pharmaceuticals</i> , 2021, 14, 244.	1.7	4
57	Solvent-driven structural topologies in phenanthroline-based co-crystals of Zn(η^2 Cl ₂) ₂ involving fascinating infinite chair-like {[(bzH) ₄ Cl ₂] ²⁺ ·n} assemblies and unconventional layered infinite {bz-H ₂ O-Cl} ₂ ·n anion-water clusters: antiproliferative evaluation and theoretical studies. <i>New Journal of Chemistry</i> , 2022, 46, 5638-5652.	1.4	4
58	Oxalic Acid, a Versatile Coformer for Multicomponent Forms with 9-Ethyladenine. <i>Crystals</i> , 2022, 12, 89.	1.0	3
59	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.	1.0	3
60	New chloride-dimethylsulfoxide-iridium(III) complex with histaminium. <i>Polyhedron</i> , 2015, 102, 735-740.	1.0	2
61	Cu(II)-N ⁶ -Alkyladenine Complexes: Synthesis, X-ray Characterization and Magnetic Properties. <i>Magnetochemistry</i> , 2018, 4, 24.	1.0	2
62	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.	1.5	2
63	1-Ethyluracil, a New Scaffold for Preparing Multicomponent Forms: Synthesis, Characterization, and Computational Studies. <i>Crystal Growth and Design</i> , 2021, 21, 4857-4870.	1.4	2
64	Solvent driven structural topologies involving unconventional O H(methanol)⋯ contact and anti-cooperative HB⋯anion⋯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.	1.0	2
65	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.	1.0	2
66	12. The Role of Lead(II) in Nucleic Acids. , 2017, 17, 403-434.		1
67	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, , .	1.4	1
68	ADDRESSING THE OBJECTIVES FOR A SUSTAINABLE DEVELOPMENT: EXPLAINING SCIENCE BEYOND RESIDUES SEPARATION AND RECYCLING. , 2018, , .		0
69	RECYCLING OF WASTE: A POWERFUL TOOL AS AN ACTIVE LEARNING METHODOLOGY FOR SCIENCE UNDERGRADUATES. , 2019, , .		0
70	EXPERIMENTAL LEARNING EXPERIENCES ORCHESTRATED BY UNDERGRADUATE COLLEGE STUDENTS TO ACTIVELY ENGAGE MIDDLE SCHOOL STUDENTS IN FOOD WASTE RECYCLING. , 2019, , .		0
71	INTERLABORATORY VIRTUAL COLLABORATIVE EXPERIENCES IN CHEMISTRY LABS. INTED Proceedings, 2022, , .	0.0	0