Miquel BarcelÃ³-Oliver

List of Publications by Year
in descending order

71 papers	1,358 citations	331670 21 h-index	361022 35 g-index
72 all docs	72 docs citations	72 times ranked	1396 citing authors

#	Article	IF	Citations
1	Anionâ^Ï€ Interactions in Bisadenine Derivatives:â€‰ A Combined Crystallographic and Theoretical Study. Inorganic Chemistry, 2007, 46, 10724-10735.	4.0	104
2	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. Crystal Growth and Design, 2015, 15, 1351-1361.	3.0	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. Coordination Chemistry Reviews, 2007, 251, 1973-1986.	18.8	83
4	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. Inorganic Chemistry, 2013, 52, 7508-7523.	4.0	79
5	Syntheses, structures, properties and DFT study of hybrid inorganicâ€“organic architectures constructed from trinuclear lanthanide frameworks and Keggin-type polyoxometalates. Dalton Transactions, 2014, 43, 1906-1916.	3.3	73
6	Synthesis and mass spectroscopy kinetics of a novel ternary copper(II) complex with cytotoxic activity against cancer cells. Journal of Inorganic Biochemistry, 2007, 101, 649-659.	3.5	69
7	Experimental and theoretical study of uracil derivatives: the crucial role of weak fluorineâ€“fluorine noncovalent interactions. CrystEngComm, 2010, 12, 3758.	2.6	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 anionâ€“Ï€ interactions. Coordination Chemistry Reviews, 2013, 257, 2705-2715.	18.8	42
9	Xâ€ray Crystal Structure of a Metalled Doubleâ€Helix Generated by Infinite and Consecutive C*â€Ag^Iâ€C* (C*:N¹â€Hexylcytosine) Base Pairs through Argentophilic and Hydrogen Bond Interactions. Chemistry - A European Journal, 2017, 23, 2103-2108.	3.3	41
10	2-Aminopyrimidine Derivatives Exhibiting Anion-Ï€ Interactions: A Combined Crystallographic and Theoretical Study. Crystal Growth and Design, 2009, 9, 2363-2376.	3.0	39
11	Lone pairâ€“Ï€ vs Ï€â€“Ï€ interactions in 5-fluoro-1-hexyluracil and 1-hexyluracil: a combined crystallographic and computational study. CrystEngComm, 2010, 12, 362-365.	2.6	39
12	A Combined Experimental and Theoretical Study of Anionâ€“Ï€ Interactions in Bis(pyrÂimidine) Salts. European Journal of Organic Chemistry, 2007, 2007, 5821-5825.	2.4	29
13	Ternary complexes metal [Co(II), Ni(II), Cu(II) and Zn(II)] â€“ ortho-iodohippurate (I-hip) â€“ acyclovir. X-ray characterization of isostructural [(Co, Ni or Zn)(I-hip)2(ACV)(H2O)3] with stacking as a recognition factor. Journal of Inorganic Biochemistry, 2004, 98, 1703-1711.	3.5	28
14	Triple-bridged ferromagnetic nickel(ii) complexes: A combined experimental and theoretical DFT study on stabilization and magnetic coupling. Dalton Transactions, 2014, 43, 6455.	3.3	28
15	Synthesis, X-ray characterization and regium bonding interactions of a trichlorido(1-hexylcytosine)gold(<scp>iii</scp>) complex. Chemical Communications, 2020, 56, 3524-3527.	4.1	28
16	Ruthenium(III) and iridium(III) complexes with nicotine. Polyhedron, 2010, 29, 34-41.	2.2	27
17	On the importance of antiparallel C Oâ‹¯Câ€“F interactions in N1-(3-hydroxypropyl)-5-fluorouracilateâ€“Hg(II) complex: A combined X-ray and DFT study. Inorganica Chimica Acta, 2016, 452, 244-250.	2.4	27
18	Adipato bridged novel hexanuclear Cu(<scp>ii</scp>) and polymeric Co(<scp>ii</scp>) coordination compounds involving cooperative supramolecular assemblies and encapsulated guest water clusters in a square grid host: antiproliferative evaluation and theoretical studies. Dalton Transactions, 2020, 49, 9863-9881.	3.3	27

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19	G proteinâ€“membrane interactions I: GÎ±i1 myristoyl and palmitoyl modifications in proteinâ€“lipid interactions and its implications in membrane microdomain localization. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 1511-1520.	2.4	24
20	Energetically significant unconventional O Hâ‹¯Ï€ contacts involving discrete guest (H2O)8 clusters in a fumarato bridged polymeric supramolecular host of Ni(II) phenanthroline: Antiproliferative evaluation and theoretical studies. Polyhedron, 2020, 176, 114266.	2.2	23
21	Molecular architecture by means of interactions between Ag(I) and glycine derivatives. Polyhedron, 2006, 25, 71-80.	2.2	22
22	Uracilato and 5-halouracilato complexes of Cu(II), Zn(II) and Ni(II). X-ray structures of [Cu(uracilato-N1)2(NH3)2]Â·2(H2O), [Cu(5-chlorouracilato-N1)2(NH3)2](H2O)2, [Ni(5-chlorouracilato-N1)2(en)2]Â·2H2O and [Zn(5-chlorouracilato-N1)(NH3)3]Â·(5-chlorouracilato-N1)Â·(H2O). Journal of Inorganic Biochemistry, 2004, 98, 632-638.	3.5	21
23	Synthesis, X-ray characterization and DFT studies of bis-N-imidazolylpyrimidine salts: the prominent role of hydrogen bonding and anionâ€“Ï€ interactions. CrystEngComm, 2014, 16, 9043-9053.	2.6	18
24	Experimental and theoretical study of thymine and cytosine derivatives: the crucial role of weak noncovalent interactions. CrystEngComm, 2012, 14, 5777.	2.6	17
25	Energetically significant cooperative Ï€-stacked ternary assemblies in Ni(II) phenanthroline compounds involving discrete water clusters: Anticancer activities and theoretical studies. Journal of Molecular Structure, 2021, 1229, 129486.	3.6	17
26	RNAs' uracil quartet model with a non-essential metal ion. Chemical Communications, 2011, 47, 4646.	4.1	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. Chemical Communications, 2013, 49, 4944.	4.1	16
28	Adenine as a Halogen Bond Acceptor: A Combined Experimental and DFT Study. Crystals, 2019, 9, 224.	2.2	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(<scp>ii</scp>) coordination compounds: antiproliferative evaluation and theoretical studies. New Journal of Chemistry, 2021, 45, 8269-8282.	2.8	14
30	Ruthenium(III) complexes with modified nucleobases: N6-Substituted adenines. Polyhedron, 2008, 27, 2851-2858.	2.2	13
31	Energetically significant nitrileâ‹¯nitrile and unconventional Câ€“Hâ‹¯Ï€(nitrile) interactions in pyridine based Ni(II) and Zn(II) coordination compounds: Antiproliferative evaluation and theoretical studies. Journal of Molecular Structure, 2021, 1223, 129246.	3.6	13
32	Experimental and theoretical studies on the coordination chemistry of the N1-hexyl substituted pyrimidines (uracil, 5-fluorouracil and cytosine). Dalton Transactions, 2013, 42, 7631.	3.3	12
33	Ternary copper(II) complexes with hippurate derivatives and 1,10-phenanthroline: Synthesis and biological activity. Inorganica Chimica Acta, 2009, 362, 4744-4753.	2.4	10
34	New Chlorido(dimethyl sulfoxide)iridium(III) Complexes with N6-Substituted Adenines - Kinetic N(7) versus Thermodynamic N(9) Coordinated Adenine Isomers. European Journal of Inorganic Chemistry, 2010, 2010, 5617-5628.	2.0	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. New Journal of Chemistry, 2017, 41, 11607-11618.	2.8	10
36	Unconventional Ï€-hole and Semi-coordination regium bonding interactions directed supramolecular assemblies in pyridinedicarboxylato bridged polymeric Cu(II) Compounds: Antiproliferative evaluation and theoretical studies. Inorganica Chimica Acta, 2021, 525, 120461.	2.4	10

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37	Phenanthroline-based Ni(II) coordination compounds involving unconventional discrete fumarate-water-nitrate clusters and energetically significant cooperative ternary Ï€-stacked assemblies: Antiproliferative evaluation and theoretical studies. Journal of Molecular Structure, 2022, 1248, 131424.	3.6	10
38	Supramolecular assemblies involving biologically relevant antiparallel Ï€-stacking and unconventional solvent driven structural topology in maleato and fumarato bridged Zn(<scp>ii</scp>) coordination polymers: antiproliferative evaluation and theoretical studies. New Journal of Chemistry, 2021, 45, 13040-13055.	2.8	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. Polyhedron, 2021, 208, 115409.	2.2	9
40	Experimental and theoretical study of N1-hexylcytosine and N1-hexylcytosinium nitrate: the crucial role of hydrophobic and anionâ€“Ï€ interactions. Tetrahedron Letters, 2013, 54, 5355-5360.	1.4	8
41	9-Ethyladenine: Mechanochemical Synthesis, Characterization, and DFT Calculations of Novel Cocrystals and Salts. Crystal Growth and Design, 2020, 20, 2985-2997.	3.0	8
42	Unconventional enclathration of guest adipic acid and energetically significant antiparallel Ï€-stacked ternary assemblies involving unusual regium-Ï€(chelate) contacts in phenanthroline-based Ni(II) and Cu(II) compoundsâ€”Antiproliferative evaluation and theoretical studies. Journal of Molecular Structure, 2021, 1245, 131038.	3.6	8
43	Intermolecular Câ€”H...Ï€ interactions in 1,5-diphenyl-3-(2-pyridyl)-2-pyrazoline. Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, o313-o316.	0.4	7
44	Iridium(III) coordination of N(6) modified adenine derivatives with aminoacid chains. Journal of Inorganic Biochemistry, 2020, 205, 111000.	3.5	7
45	Silver(I)-mediated base pairing in DNA involving the artificial nucleobase 7,8-dihydro-8-oxo-1,N6-ethenoadenine. Journal of Inorganic Biochemistry, 2021, 219, 111369.	3.5	7
46	Uracil Derivatives for Halogen-Bonded Cocrystals. International Journal of Molecular Sciences, 2021, 22, 10663.	4.1	7
47	Structural topologies involving energetically significant antiparallel Ï€-stacking and unconventional N(nitrile)â‹¯Ï€(fumarate) contacts in dinuclear Zn(<scp>ii</scp>) and polymeric Mn(<scp>ii</scp>) compounds: antiproliferative evaluation and theoretical studies. New Journal of Chemistry, 2022, 46, 5296-5311.	2.8	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. Dalton Transactions, 2014, 43, 6353.	3.3	6
49	Synthesis, reactivity, X-ray characterization and docking studies of N7/N9-(2-pyrimidyl)-adenine derivatives. Journal of Inorganic Biochemistry, 2020, 203, 110879.	3.5	6
50	Charge Assisted Hydrogen Bonded Assemblies and Unconventional Oâˆ™âˆ™âˆ™O Dichalcogen Bonding Interactions in Pyrazole-Based Isostructural Ni(II) and Mn(II) Compounds involving Anthraquinone Disulfonate: Antiproliferative Evaluation and Theoretical Studies. Journal of Molecular Structure, 2021, 1250, 131883.	3.6	6
51	Models for thyroxine: Aromatic iodine-assisted self-assemblies. Polyhedron, 2007, 26, 1417-1426.	2.2	5
52	Crystal structures of N⁶-modified-amino acid nucleobase analogs(<scp>iii</scp>): adenineâ€“valeric acid, adenineâ€“hexanoic acid and adenineâ€“gabapentine. New Journal of Chemistry, 2020, 44, 12236-12246.	2.8	5
53	Scientific Activities for the Engagement of Undergraduate Students in the Separation and Recycling of Waste. Journal of Chemical Education, 2021, 98, 454-460.	2.3	5
54	Di-Î¼-chlorido-bis{chlorido[(R)/(S)-1,5-diphenyl-3-(2-pyridyl-ÎºN)-2-pyrazoline-ÎºN²]zinc(II)}. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, m899-m900.	0.2	4

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55	Characterization of the full-length btuB riboswitch from Klebsiella pneumoniae. Journal of Inorganic Biochemistry, 2016, 160, 106-113.	3.5	4
56	Deciphering the H-Bonding Preference on Nucleoside Molecular Recognition through Model Copper(II) Compounds. Pharmaceuticals, 2021, 14, 244.	3.8	4
57	Solvent-driven structural topologies in phenanthroline-based co-crystals of Zn(<scp>II</scp>) involving fascinating infinite chair-like {[(bzH)₄Cl₂]^{2â^'}}_nassemblies and unconventional layered infinite {bz-H₂O-Cl}_nanion-water clusters: antiproliferative evaluation and theoretical studies. New Journal of Chemistry, 2022, 46, 5638-5652.	2.8	4
58	Oxalic Acid, a Versatile Coformer for Multicomponent Forms with 9-Ethyladenine. Crystals, 2022, 12, 89.	2.2	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. Polyhedron, 2022, 224, 115982.	2.2	3
60	New chloride-dimethylsulfoxide-iridium(III) complex with histaminium. Polyhedron, 2015, 102, 735-740.	2.2	2
61	Cu(II)â€“N6-Alkyladenine Complexes: Synthesis, X-ray Characterization and Magnetic Properties. Magnetochemistry, 2018, 4, 24.	2.4	2
62	Probing the effect of N-alkylation on the molecular recognition abilities of the major groove N7-binding site of purine ligands. Journal of Inorganic Biochemistry, 2019, 200, 110801.	3.5	2
63	1-Ethyluracil, a New Scaffold for Preparing Multicomponent Forms: Synthesis, Characterization, and Computational Studies. Crystal Growth and Design, 2021, 21, 4857-4870.	3.0	2
64	Solvent driven structural topologies involving unconventional O H(methanol)â‹¯Ï€ contact and anti-cooperative HBâ‹¯anion-Ï€â‹¯HB assemblies with unusual enclathration of dual guest (H2O)4 cores in Mn(II) and Ni(II) coordination compounds: Antiproliferative evaluation and theoretical studies. Polyhedron, 2021, 210, 115503.	2.2	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. Polyhedron, 2022, 224, 116025.	2.2	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. New Journal of Chemistry, 0, , .	2.8	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