Joaquin Sanchiz

List of Publications by Year
in descending order

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96 papers	4,569 citations	66315 42 h-index	102432 66 g-index
98 all docs	98 docs citations	98 times ranked	3364 citing authors

#	Article	IF	Citations
1	Mixed-ligand coordination polymers from 1,2-bis(1,2,4-triazol-4-yl)ethane and benzene-1,3,5-tricarboxylate: Trinuclear nickel or zinc secondary building units for three-dimensional networks with crystal-to-crystal transformation upon dehydration. Dalton Transactions, 2008, , 1734.	1.6	250
2	Ferromagnetism in Malonato-Bridged Copper(II) Complexes. Synthesis, Crystal Structures, and Magnetic Properties of {[Cu(H2O)3][Cu(mal)2(H2O)]}nand {[Cu(H2O)4]2[Cu(mal)2(H2O)]}[Cu(mal)2(H2O)2]{[Cu(H2O)4][Cu(mal)2(H2O)2]} (H2mal = malonic Acid). Inorganic Chemistry, 2000, 39, 1363-1370.	1.9	218
3	Magnetic and luminescence properties of Cu(II), Cu(II)4O4 core, and Cd(II) mixed-ligand metalâ€“organic frameworks constructed from 1,2-bis(1,2,4-triazol-4-yl)ethane and benzene-1,3,5-tricarboxylate. Inorganica Chimica Acta, 2009, 362, 2452-2460.	1.2	153
4	Ferromagnetic Ordering, Anisotropy, and Spin Reorientation for the Cyano-Bridged Bimetallic Compound Mn2(H2O)5Mo(CN)7Â·4H2O (Î± Phase). Journal of the American Chemical Society, 1998, 120, 13088-13095.	6.6	142
5	Structural versatility of the malonate ligand as a tool for crystal engineering in the design of molecular magnets. CrystEngComm, 2002, 4, 522-535.	1.3	136
6	Crystal structure and magnetic properties of the flexible self-assembled two-dimensional square network complex [Cu2(mal)2(H2O)2(4,4â€²-bpy)] (H2mal=malonic acid and 4,4â€²-bpy=4,4â€²-bipyridine). Inorganica Chimica Acta, 2001, 318, 159-165.	1.2	132
7	Magnetic Properties of the Two-Dimensional Bimetallic Compounds (NBu4)[MIIRuIII(ox)3] (NBu4=) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	129
8	Design of High-Dimensional Copper(II) Malonate Complexes with Exo-Polydentate N-Donor Ligands. Inorganic Chemistry, 2003, 42, 5938-5948.	1.9	119
9	Self-Assembled Copper(II) Coordination Polymers Derived from Aminopolyalcohols and Benzenepolycarboxylates:â€‰ Structural and Magnetic Properties. Inorganic Chemistry, 2008, 47, 162-175.	1.9	113
10	Spontaneous resolution upon crystallization of chiral La(iii) and Gd(iii) MOFs from achiral dihydroxymalonate. Chemical Communications, 2010, 46, 8270.	2.2	113
11	Mono-, di- and polynuclear copper(II) compounds derived from N-butyldiethanolamine: structural features, magnetism and catalytic activity for the mild peroxidative oxidation of cyclohexane. Dalton Transactions, 2009, , 2109.	1.6	105
12	Malonate-based copper(II) coordination compounds: ferromagnetic coupling controlled by dicarboxylates. Polyhedron, 2003, 22, 2143-2153.	1.0	104
13	Synthesis, crystal structure and magnetic properties of two-dimensional malonato-bridged cobalt(ii) and nickel(ii) compounds. CrystEngComm, 2004, 6, 106-111.	1.3	103
14	Bifunctional pyrazolateâ€“carboxylate ligands for isoreticular cobalt and zinc MOF-5 analogs with magnetic analysis of the {Co4(Î¼4-O)} node. CrystEngComm, 2013, 15, 9757.	1.3	98
15	Crystal engineering of 3-D coordination polymers by pillaring ferromagnetic copper(ii)-methylmalonate layers. CrystEngComm, 2007, 9, 478-487.	1.3	92
16	Coordinating ability of phenylenediamines. Coordination Chemistry Reviews, 1999, 193-195, 913-939.	9.5	83
17	Ferromagnetic coupling in the malonato-bridged copper(ii) chains [Cu(Im)2(mal)]nand [Cu(2-MeIm)2(mal)]n(H2malâ€‰=â€‰malonic acid, Imâ€‰=â€‰imidazole and 2-MeImâ€‰=â€‰2-methylimidazole). New Journal of Chemistry, 2002, 26, 1624-1628.	2.2	80
18	Malonic acid: a multi-modal bridging ligand for new architectures and properties on molecule-based magnets. Polyhedron, 2003, 22, 2111-2123.	1.0	80

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19	2âˆž[Cu2(Î¼5-btb)(Î¼-OH)(Î¼-H2O)]: a two-dimensional coordination polymer built from ferromagnetically coupled Cu2 units (btb = benzene-1,2,3-tricarboxylate). Dalton Transactions, 2008, , 4877.	1.6	78
20	Homochiral lanthanoid(iii) mesoxalate metalâ€“organic frameworks: synthesis, crystal growth, chirality, magnetic and luminescent properties. CrystEngComm, 2012, 14, 2635.	1.3	76
21	Self-Assembled 3D Heterometallic Cu^{II}/Fe^{II} Coordination Polymers with Octahedral Net Skeletons: Structural Features, Molecular Magnetism, Thermal and Oxidation Catalytic Properties. Inorganic Chemistry, 2010, 49, 11096-11105.	1.9	74
22	Multicopper(II) Pyromellitate Compounds: Self-Assembly Synthesis, Structural Topologies, and Magnetic Features. Crystal Growth and Design, 2008, 8, 4100-4108.	1.4	70
23	Crystal structures and magnetic properties of two- and three-dimensional malonato-bridged manganese(ii) complexes. Dalton Transactions, 2003, , 2359-2365.	1.6	69
24	Synthesis, crystal structure and magnetic properties of the malonato-bridged bimetallic chain [Mn(II)Cu(II)(mal)2(H2O)4]Â·2H2O. Inorganica Chimica Acta, 2000, 298, 202-208.	1.2	67
25	Alternating cationicâ€“anionic layers in the [Mii(H2O)6][Cuii(mal)2(H2O)] complexes linked through hydrogen bonds (M = Mn, Co, Ni, Cu and Zn; H2mal = malonic acid). CrystEngComm, 2002, 4, 631-637.	1.3	64
26	Magnetic Ordering in Two Molecule-Based (10,3)-a Nets Prepared from a Copper(II) Trinuclear Secondary Building Unit. Inorganic Chemistry, 2010, 49, 7478-7490.	1.9	61
27	Crystal structure, ferromagnetic ordering and magnetic anisotropy for two cyano-bridged bimetallic compounds of formula Mn2(H2O)5Mo(CN)7Â·nH2O. Chemical Communications, 1998, , 953-954.	2.2	60
28	Synthesis, crystal structure and magnetic properties of [Cu(bpym)(mal)(H2O)]Â·6H2O and [Cu2(bpym)(mal)2(H2O)2]Â·4H2O (bpym=2,2â€²-bipyrimidine, H2mal=malonic acid). Inorganica Chimica Acta, 2001, 326, 20-26.	1.2	59
29	The flexibility of molecular components as a suitable tool in designing extended magnetic systems. CrystEngComm, 2002, 4, 440-446.	1.3	59
30	Phenylmalonate-Containing Copper(II) Complexes: Synthesis, Crystal Structure and Magnetic Properties. European Journal of Inorganic Chemistry, 2004, 2004, 4081-4090.	1.0	57
31	Structure and magnetic properties of a tetranuclear Cu4O4 open-cubane in [Cu(L)]4Â·4H2O with L2â^'=(E)-Nâ€²-(2-oxy-3-methoxybenzylidene)benzohydrazide. Inorganica Chimica Acta, 2009, 362, 3791-3795.	1.2	54
32	High-dimensional malonate-based materials: Synthesis, crystal structures and magnetic properties of [M2(mal)2(L)(H2O)2]nÂ·n(H2O) M = Zn(ii), Co(ii); H2mal = malonic acid, L = pyrimidine, pyrazine. CrystEngComm, 2003, 5, 280-284.	1.3	53
33	Synthesis, crystal structure and magnetic properties of the three-dimensional compound [Na2Ni(mal)2(H2O)6]n (H2mal=malonic acid). Inorganica Chimica Acta, 2000, 298, 245-250.	1.2	52
34	Polymeric Networks of Copper(II) Phenylmalonate with Heteroaromatic N-donor Ligands:Â Synthesis, Crystal Structure, and Magnetic Properties. Inorganic Chemistry, 2005, 44, 7794-7801.	1.9	52
35	Syntheses, structures and magnetic properties of azido- and phenoxo-bridged complexes of manganese containing tridentate aroylhydrazone based ligands. Polyhedron, 2013, 61, 45-55.	1.0	52
36	{[Cu(H2O)3][Cu(phmal)2]}n: a new two-dimensional copper(ii) complex with intralayer ferromagnetic interactions (phmalâ€‰=â€‰phenylmalonate dianion). New Journal of Chemistry, 2003, 27, 1557-1562.	1.4	51

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37	Copper(ii) complexes with a new carboxylic-functionalized arylhydrazone of Î²-diketone as effective catalysts for acid-free oxidations. New Journal of Chemistry, 2012, 36, 1646.	1.4	49
38	Coordinating ability of ligands derived from phenylenediamines. Coordination Chemistry Reviews, 1999, 193-195, 857-911.	9.5	48
39	Iron, copper and zinc ammonium-1-hydroxyalkylidene-diphosphonates with zero-, one- and two-dimensional covalent metalâ€“ligand structures extended into three-dimensional supramolecular networks by charge-assisted hydrogen-bonding. Polyhedron, 2010, 29, 2537-2545.	1.0	48
40	Synthesis, structure, magnetic properties and EPR spectroscopy of a copper(<scp>ii</scp>) coordination polymer with a ditopic hydrazone ligand and acetate bridges. Dalton Transactions, 2015, 44, 1782-1789.	1.6	48
41	Proton Conduction and Long-Range Ferrimagnetic Ordering in Two Isostructural Copper(II) Mesoxalate Metalâ€“Organic Frameworks. Inorganic Chemistry, 2015, 54, 1597-1605.	1.9	46
42	Holo- and Hemidirected Lead(II) in the Polymeric [Pb4(Î¼-3,4-TDTA)2(H2O)2]Â·4H2O Complex.N,N,Nâ€˜,Nâ€˜-Tetraacetate Ligands Derived fromo-Phenylenediamines as Sequestering Agents for Lead(II). Inorganic Chemistry, 2002, 41, 6048-6055.	1.9	42
43	Structures and Magnetic Properties of an Antiferromagnetically Coupled Polymeric Copper(II) Complex and Ferromagnetically Coupled Hexanuclear Nickel(II) Clusters. Inorganic Chemistry, 2012, 51, 3270-3282.	1.9	42
44	A rare alb-4,8-Cmce metalâ€“coordination network based on tetrazolate and phosphonate functionalized 1,3,5,7-tetraphenyladamantane. CrystEngComm, 2013, 15, 1235.	1.3	42
45	Heteronuclear, mixed-metal Ag(<scp>i</scp>)â€“Mn(<scp>ii</scp>) coordination polymers with bridging N-pyridinylisonicotinohydrazide ligands: synthesis, crystal structures, magnetic and photoluminescence properties. Dalton Transactions, 2014, 43, 11925.	1.6	42
46	Versatile supramolecular self-assembly. Part I. Network formation and magnetic behaviour of the alkaline salts of the bis(malonate)cuprate(ii) anion. CrystEngComm, 2006, 8, 507-529.	1.3	40
47	Versatile supramolecular self-assembly : Part II. Network formation and magnetic behaviour of copper(ii) malonate anions in ammonium derivatives. CrystEngComm, 2006, 8, 530-544.	1.3	38
48	Hydrophobic-exterior layer structures and magnetic properties of trinuclear copper complexes with chiral amino alcoholate ligands. New Journal of Chemistry, 2012, 36, 1596.	1.4	38
49	Structure and magnetic behavior of unpredictable EE-azide bridged tetranuclear Mn(II) complex with ONO-donor hydrazone ligand and its transformation to dinuclear Mn(III) complex. Polyhedron, 2018, 147, 142-151.	1.0	37
50	Tetramethyl Carboxylic Acids Derived from o-Phenylenediamines as Sequestering Agents for Iron(III):â€‰Thermodynamic Studies. X-ray Crystal Structure of Sodium Aqua(4-chloro-1,2-phenylenediamine-N,N,Nâ€˜,Nâ€˜-tetraacetato)ferrate(III)â€™Water (1/1.5). Inorganic Chemistry, 1997, 36, 4108-4114.	1.9	36
51	A new cost-effective polymeric film containing an Eu(III) complex acting as UV protector and down-converter for Si-based solar cells and modules. Solar Energy Materials and Solar Cells, 2015, 136, 187-192.	3.0	34
52	Solution studies of complexes of iron(III) with iminodiacetic, alkyl-substituted iminodiacetic and nitrilotriacetic acids by potentiometry and cyclic voltammetry. Inorganica Chimica Acta, 1999, 291, 158-165.	1.2	32
53	Protonated malonate: the influence of the hydrogen bonds on the magnetic behaviour. CrystEngComm, 2004, 6, 443-450.	1.3	32
54	Metamagnetism in hydrophobically induced carboxylate (phenylmalonate)-bridged copper(ii) layers. Chemical Communications, 2006, , 2857-2859.	2.2	32

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55	Synthesis, characterization and magnetic properties of a dinuclear oxidovanadium(IV) complex: Magneto-structural DFT studies on the effects of out-of-plane â€“OCH3 angle. Polyhedron, 2017, 122, 194-202.	1.0	28
56	Interactions of nitric oxide with copper(II) dithiocarbamates in aqueous solution. Journal of Inorganic Biochemistry, 2003, 95, 283-290.	1.5	27
57	Luminescent polymeric film containing an Eu(III) complex acting as UV protector and down-converter for Si-based solar cells and modules. Surface and Coatings Technology, 2015, 271, 106-111.	2.2	27
58	Triangular Oxalate Clusters [W3(Î¼3-S)(Î¼2-S2)3(C2O4)3]2-as Building Blocks for Coordination Polymers and Nanosized Complexes. Inorganic Chemistry, 2007, 46, 2115-2123.	1.9	23
59	1,3,5,7-Tetrakis(tetrazol-5-yl)-adamantane: the smallest tetrahedral tetrazole-functionalized ligand and its complexes formed by reaction with anhydrous M(<scp>ii</scp>)Cl₂(M = Mn, Cu, Zn,) Tj ETQq1 1 0.784314 rgBT /Overl	1.6	23
60	The effect of the orientation of the Jahnâ€“Teller distortion on the magnetic interactions of trinuclear mixed-valence Mn(<scp>ii</scp>)/Mn(<scp>iii</scp>) complexes. Dalton Transactions, 2019, 48, 13799-13812.	1.6	20
61	Synthesis, crystal structure and magnetic properties of a pentanuclear Mn(III) cluster with 1,2,4-triazole based Schiff base ligand. Inorganica Chimica Acta, 2020, 505, 119461.	1.2	20
62	Building-block process for the synthesis of new chromium(iii) malonate complexes. CrystEngComm, 2010, 12, 2711.	1.3	19
63	[Cu₃(Hmesox)₃]^{3â^'}: a Precursor for the Rational Design of Chiral Molecule-Based Magnets (H₄mesox = 2-dihydroxymalonic acid). Inorganic Chemistry, 2010, 49, 7880-7889.	1.9	18
64	Crystal structure and magneto-structural investigation of alkoxido bridged dinuclear Fe(III) complexes with 1,3-oxazolidine ligands. Polyhedron, 2019, 162, 20-29.	1.0	18
65	Highly luminescent film as enhancer of photovoltaic devices. Journal of Luminescence, 2018, 201, 148-155.	1.5	16
66	Magnetic properties of copper(II) complexes containing peptides. Crystal structure of [Cu(phe-leu)]. Journal of Molecular Structure, 2006, 797, 179-183.	1.8	15
67	Copper(II)-methylmalonate complexes with unidentate N-donor ligands: Syntheses, structural characterization and magnetic properties. Polyhedron, 2009, 28, 1802-1807.	1.0	15
68	A new eight-coordinate complex of manganese(II): synthesis, crystal structure, spectroscopy and magnetic properties of [Mn(Hoxam)2(H2O)4] (H2oxam=oxamic acid). Inorganica Chimica Acta, 2001, 315, 120-125.	1.2	14
69	Influence of the coligand in the magnetic properties of a series of copper(ii)â€“phenylmalonate complexes. CrystEngComm, 2014, 16, 8106-8118.	1.3	14
70	Antiferromagnetically Coupled Dimeric Dodecacopper Supramolecular Architectures of Macrocyclic Ligands with a Symmetrical Î¼6-BO3^{3â€“} Central Moiety. Inorganic Chemistry, 2015, 54, 6873-6884.	1.9	14
71	H-bonding directed formation of 1D-single chains, 2D-sheets, and 3D structures in magnetically coupled tetranuclear nickel(II) complexes with incomplete double cubane core. Polyhedron, 2017, 123, 361-375.	1.0	13
72	Downshifting maximization procedure applied to [Eu(bphen)(tta)3] at different concentrations applied to a photovoltaic device and covered with a hemispherical reflector. Sensors and Actuators A: Physical, 2018, 271, 60-65.	2.0	13

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73	Two-dimensional (6,3) networks obtained with the {Cu3(Hmesox)3}3â˜ secondary building unit (H4mesox = mesoxalic acid). CrystEngComm, 2012, 14, 4289.	1.3	11
74	Visible and NIR emitting Yb(<scp>iii</scp>) and Er(<scp>iii</scp>) complexes sensitized by Î²-diketonates and phenanthroline derivatives. RSC Advances, 2020, 10, 27815-27823.	1.7	11
75	Synthesis, molecular structure and magnetic properties of a rhenium(IV) compound with catechol. Journal of Molecular Structure, 2009, 921, 80-84.	1.8	10
76	Copper(II)-phenylmalonate complexes with the bifunctional ligands nicotinamide and isonicotinamide. Polyhedron, 2011, 30, 2451-2458.	1.0	10
77	A ferromagnetically coupled copper(II) trinuclear secondary building unit as precursor for the preparation of molecule-based magnets. Inorganica Chimica Acta, 2011, 371, 47-52.	1.2	10
78	Bis(benzotriazol-1-yl)methane as a linker in the assembly of new copper(II) coordination polymers: Synthesis, structure and investigations. Polyhedron, 2012, 48, 253-263.	1.0	9
79	Cation effect on the crystal structure of polynuclear complexes with 2,2â€²-oxydiacetate as bridging ligand. Inorganica Chimica Acta, 2013, 394, 196-202.	1.2	8
80	Alternative and fully experimental procedure for characterizing down-shifters placed on photovoltaic devices. Solar Energy Materials and Solar Cells, 2018, 185, 312-317.	3.0	8
81	Durability analysis of the [Eu(bphen)(tta)3] down-shifter on Si-based PV modules exposed to extreme outdoor conditions. Sensors and Actuators A: Physical, 2018, 276, 312-319.	2.0	8
82	Bio-inspired Ni dinuclear complexes as heterogeneous catalysts for hydrogen evolution. Chemical Engineering Journal, 2021, 420, 130342.	6.6	8
83	Crystal structure and magnetic interactions of a new alkoxido and azido bridged 1D copper(II) coordination polymer. Journal of Solid State Chemistry, 2021, 303, 122484.	1.4	8
84	Synthesis, crystal structure and magnetic properties of a trinuclear phenolate bridged manganese complex containing Mn(ii)â€“Mn(iii) ions. RSC Advances, 2014, 4, 36175.	1.7	7
85	Mesoxalate as Cu(<scp>ii</scp>)â€“Ln(<scp>iii</scp>) linker in the construction of MOFs in DMSO/water medium. CrystEngComm, 2015, 17, 6555-6565.	1.3	7
86	Crystal structure of the 3-D complex [(H2O)Cd(Î¼-3,4-TDTA)Cd(H2O)]. Potentiometric and 113Cd NMR studies in aqueous solution (3,4-TDTAâ€...=â€...3,4-toluenediamine-N,N,Nâ€Šâ€²,Nâ€Šâ€²-tetraacetate). Dalton Transactions RSC, 2001, , 1559-1565.	2.3	5
87	Effect of the apical ligand on the geometry and magnetic properties of copper(<scp>ii</scp>)/mesoxalate trinuclear units. Dalton Transactions, 2017, 46, 5260-5268.	1.6	5
88	Evolution of the external quantum efficiency of Si-based PV minimodules with encapsulated down-shifters and aged under UV radiation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 261, 114763.	1.7	5
89	Highly luminescent mixed-ligand bimetallic lanthanoid(<scp>iii</scp>) complexes for photovoltaic applications. Dalton Transactions, 2022, 51, 3146-3158.	1.6	5
90	Potentiometric studies on the formation and dissociation of the L-cysteine complexes of di-Î¼-sulfido and di-Î¼-oxo molybdenum(V) [Mo2O2(Î¼-S)2(cys)2]2â˜ and [Mo2O2(Î¼-O)2(cys)2]2â˜. Journal of the Chemical Society Dalton Transactions, 1998, , 2723-2726.	1.1	3

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91	Magnetostructural relationships in polymorphic ethylmalonate-containing copper(<scp>ii</scp>) coordination polymers. CrystEngComm, 2018, 20, 7464-7472.	1.3	3
92	Optical properties of Nd3+-doped Tutton salts crystals. Journal of Luminescence, 2017, 192, 136-140.	1.5	2
93	Synthesis, structure and magnetic properties of a cobalt(II) mesoxalate 1D coordination polymer. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 485-489.	0.6	2
94	Improvement of the Proton Conduction of Copper(II)-Mesoxalate Metalâ€“Organic Frameworks by Strategic Selection of the Counterions. Inorganic Chemistry, 2022, 61, 11651-11666.	1.9	2
95	Potassium Aqua(3,4-toluenediamine-N,N,N',N'-tetraacetato)ferrate(III)â€“Water (1/1.5). Acta Crystallographica Section C: Crystal Structure Communications, 1996, 52, 1618-1621.	0.4	1
96	Malonic Acid: A Multi-Modal Bridging Ligand for New Architectures and Properties on Molecule-Based Magnets. ChemInform, 2004, 35, no.	0.1	0