

Joaquin Sanchiz

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#	Paper	IF	Citations
93	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. <i>Dalton Transactions</i> , 2009 , 20, 1252-1260	4.3	246
92	Ferromagnetism in malonate-bridged copper(II) complexes. Synthesis, crystal structures, and magnetic properties of $[[\text{Cu}(\text{H}_2\text{O})_3][\text{Cu}(\text{mal})_2(\text{H}_2\text{O})]]_n$ and $[[\text{Cu}(\text{H}_2\text{O})_4]_2[\text{Cu}(\text{mal})_2(\text{H}_2\text{O})][\text{Cu}(\text{mal})_2(\text{H}_2\text{O})_2][[\text{Cu}(\text{H}_2\text{O})_4][\text{Cu}(\text{mal})_2(\text{H}_2\text{O})_2][(\text{H}_2\text{mal} = \text{malonic acid})]]_n$. <i>Inorganic Chemistry</i> , 2000 , <i>39</i> , 1363-70	5.1	202
91	Magnetic and luminescence properties of Cu(II), Cu(II)4O4 core, and Cd(II) mixed-ligand metal-organic frameworks constructed from 1,2-bis(1,2,4-triazol-4-yl)ethane and benzene-1,3,5-tricarboxylate. <i>Inorganica Chimica Acta</i> , 2009 , <i>362</i> , 2452-2460	2.7	149
90	Structural versatility of the malonate ligand as a tool for crystal engineering in the design of molecular magnets. <i>CrystEngComm</i> , 2002 , <i>4</i> , 522-535	3.3	130
89	Ferromagnetic Ordering, Anisotropy, and Spin Reorientation for the Cyano-Bridged Bimetallic Compound $\text{Mn}_2(\text{H}_2\text{O})_5\text{Mo}(\text{CN})_7\cdot 4\text{H}_2\text{O}$ (PPhase). <i>Journal of the American Chemical Society</i> , 1998 , <i>120</i> , 13088-13095	16.4	125
88	Crystal structure and magnetic properties of the flexible self-assembled two-dimensional square network complex $[\text{Cu}_2(\text{mal})_2(\text{H}_2\text{O})_2(4,4\text{-bpy})]$ (H_2mal =malonic acid and 4,4'-bpy=4,4'-bipyridine). <i>Inorganica Chimica Acta</i> , 2001 , <i>318</i> , 159-165	2.7	125
87	Magnetic Properties of the Two-Dimensional Bimetallic Compounds $(\text{NBu}_4)[\text{M}(\text{II})\text{Ru}(\text{III})(\text{ox})_3]$ (NBu_4 = Tetra-n-butylammonium; M = Mn, Fe, Cu; ox = Oxalate). <i>Inorganic Chemistry</i> , 1998 , <i>37</i> , 679-684	5.1	114
86	Design of high-dimensional copper(II) malonate complexes with exo-polydentate N-donor ligands. <i>Inorganic Chemistry</i> , 2003 , <i>42</i> , 5938-48	5.1	111
85	Self-assembled copper(II) coordination polymers derived from aminopolyalcohols and benzenepolycarboxylates: structural and magnetic properties. <i>Inorganic Chemistry</i> , 2008 , <i>47</i> , 162-75	5.1	109
84	Spontaneous resolution upon crystallization of chiral La(III) and Gd(III) MOFs from achiral dihydroxymalonate. <i>Chemical Communications</i> , 2010 , <i>46</i> , 8270-2	5.8	108
83	Malonate-based copper(II) coordination compounds: ferromagnetic coupling controlled by dicarboxylates. <i>Polyhedron</i> , 2003 , <i>22</i> , 2143-2153	2.7	101
82	Mono-, di- and polynuclear copper(II) compounds derived from N-butyldiethanolamine: structural features, magnetism and catalytic activity for the mild peroxidative oxidation of cyclohexane. <i>Dalton Transactions</i> , 2009 , 2109-20	4.3	100
81	Synthesis, crystal structure and magnetic properties of two-dimensional malonate-bridged cobalt(II) and nickel(II) compounds. <i>CrystEngComm</i> , 2004 , <i>6</i> , 106-111	3.3	97
80	Crystal engineering of 3-D coordination polymers by pillaring ferromagnetic copper(II)-methylmalonate layers. <i>CrystEngComm</i> , 2007 , <i>9</i> , 478-487	3.3	88
79	Bifunctional pyrazolate-carboxylate ligands for isorecticular cobalt and zinc MOF-5 analogs with magnetic analysis of the $\{\text{Co}_4(\mu_3\text{-O})\}$ node. <i>CrystEngComm</i> , 2013 , <i>15</i> , 9757	3.3	82
78	Ferromagnetic coupling in the malonate-bridged copper(II) chains $[\text{Cu}(\text{Im})_2(\text{mal})]_n$ and $[\text{Cu}(2\text{-Melm})_2(\text{mal})]_n$ (H_2mal = malonic acid, Im = imidazole and 2-Melm = 2-methylimidazole). <i>New Journal of Chemistry</i> , 2002 , <i>26</i> , 1624-1628	3.6	77
77	$(\text{infinity})_2[\text{Cu}_2(\mu_5\text{-btb})(\mu\text{-OH})(\mu\text{-H}_2\text{O})]$: a two-dimensional coordination polymer built from ferromagnetically coupled Cu_2 units (btb = benzene-1,2,3-tricarboxylate). <i>Dalton Transactions</i> , 2008 , 4877-84	4.3	76

76	Coordinating ability of phenylenediamines. <i>Coordination Chemistry Reviews</i> , 1999 , 193-195, 913-939	23.2	75
75	Malonic acid: a multi-modal bridging ligand for new architectures and properties on molecule-based magnets. <i>Polyhedron</i> , 2003 , 22, 2111-2123	2.7	74
74	Homochiral lanthanoid(III) mesoxalate metal-organic frameworks: synthesis, crystal growth, chirality, magnetic and luminescent properties. <i>CrystEngComm</i> , 2012 , 14, 2635	3.3	71
73	Self-assembled 3D heterometallic Cu(II)/Fe(II) coordination polymers with octahedral net skeletons: structural features, molecular magnetism, thermal and oxidation catalytic properties. <i>Inorganic Chemistry</i> , 2010 , 49, 11096-105	5.1	70
72	Crystal structures and magnetic properties of two- and three-dimensional malonato-bridged manganese(II) complexes. <i>Dalton Transactions</i> , 2003 , 2359-2365	4.3	65
71	Multicopper(II) Pyromellitate Compounds: Self-Assembly Synthesis, Structural Topologies, and Magnetic Features. <i>Crystal Growth and Design</i> , 2008 , 8, 4100-4108	3.5	64
70	Synthesis, crystal structure and magnetic properties of the malonato-bridged bimetallic chain [Mn(II)Cu(II)(mal) ₂ (H ₂ O) ₄] _n ·2H ₂ O. <i>Inorganica Chimica Acta</i> , 2000 , 298, 202-208	2.7	63
69	Magnetic ordering in two molecule-based (10,3)-a nets prepared from a copper(II) trinuclear secondary building unit. <i>Inorganic Chemistry</i> , 2010 , 49, 7478-90	5.1	60
68	Alternating cationic-anionic layers in the [MII(H ₂ O) ₆][CuII(mal) ₂ (H ₂ O)] complexes linked through hydrogen bonds (M = Mn, Co, Ni, Cu and Zn; H ₂ mal = malonic acid). <i>CrystEngComm</i> , 2002 , 4, 631-637	3.3	60
67	The flexibility of molecular components as a suitable tool in designing extended magnetic systems. <i>CrystEngComm</i> , 2002 , 4, 440-446	3.3	59
66	Crystal structure, ferromagnetic ordering and magnetic anisotropy for two cyano-bridged bimetallic compounds of formula Mn ₂ (H ₂ O) ₅ Mo(CN) ₇ ·H ₂ O. <i>Chemical Communications</i> , 1998 , 953-954	5.8	58
65	Synthesis, crystal structure and magnetic properties of [Cu(bpym)(mal)(H ₂ O)] _n ·5H ₂ O and [Cu ₂ (bpym)(mal) ₂ (H ₂ O) ₂] _n ·4H ₂ O (bpym=2,2'-bipyrimidine, H ₂ mal=malonic acid). <i>Inorganica Chimica Acta</i> , 2001 , 326, 20-26	2.7	57
64	Phenylmalonate-Containing Copper(II) Complexes: Synthesis, Crystal Structure and Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 4081-4090	2.3	56
63	Structure and magnetic properties of a tetranuclear Cu ₄ O ₄ open-cubane in [Cu(L)] ₄ ·4H ₂ O with L ₂ [(E)-N ⁺ -(2-oxy-3-methoxybenzylidene)benzohydrazide]. <i>Inorganica Chimica Acta</i> , 2009 , 362, 3791-3795	2.7	54
62	High-dimensional malonate-based materials: Synthesis, crystal structures and magnetic properties of [M ₂ (mal) ₂ (L)(H ₂ O) ₂] _n ·nH ₂ O M = Zn(II), Co(II); H ₂ mal = malonic acid, L = pyrimidine, pyrazine. <i>CrystEngComm</i> , 2003 , 5, 280-284	3.3	51
61	Polymeric networks of copper(II) phenylmalonate with heteroaromatic n-donor ligands: synthesis, crystal structure, and magnetic properties. <i>Inorganic Chemistry</i> , 2005 , 44, 7794-801	5.1	49
60	{[Cu(H ₂ O) ₃][Cu(phmal) ₂]} _n : a new two-dimensional copper(II) complex with intralayer ferromagnetic interactions (phmal = phenylmalonate dianion). <i>New Journal of Chemistry</i> , 2003 , 27, 1557-1562	3.6	49
59	Synthesis, crystal structure and magnetic properties of the three-dimensional compound [Na ₂ Ni(mal) ₂ (H ₂ O) ₆] _n (H ₂ mal=malonic acid). <i>Inorganica Chimica Acta</i> , 2000 , 298, 245-250	2.7	49

58	Copper(II) complexes with a new carboxylic-functionalized arylhydrazone of diketone as effective catalysts for acid-free oxidations. <i>New Journal of Chemistry</i> , 2012 , 36, 1646	3.6	48
57	Syntheses, structures and magnetic properties of azido- and phenoxo-bridged complexes of manganese containing tridentate arylhydrazone based ligands. <i>Polyhedron</i> , 2013 , 61, 45-55	2.7	46
56	Iron, copper and zinc ammonium-1-hydroxyalkylidene-diphosphonates with zero-, one- and two-dimensional covalent metal-ligand structures extended into three-dimensional supramolecular networks by charge-assisted hydrogen-bonding. <i>Polyhedron</i> , 2010 , 29, 2537-2545	2.7	44
55	Synthesis, structure, magnetic properties and EPR spectroscopy of a copper(II) coordination polymer with a ditopic hydrazone ligand and acetate bridges. <i>Dalton Transactions</i> , 2015 , 44, 1782-9	4.3	42
54	Proton conduction and long-range ferrimagnetic ordering in two isostructural Copper(II) mesoxalate metal-organic frameworks. <i>Inorganic Chemistry</i> , 2015 , 54, 1597-605	5.1	42
53	Structures and magnetic properties of an antiferromagnetically coupled polymeric copper(II) complex and ferromagnetically coupled hexanuclear nickel(II) clusters. <i>Inorganic Chemistry</i> , 2012 , 51, 3270-82	5.1	41
52	Coordinating ability of ligands derived from phenylenediamines. <i>Coordination Chemistry Reviews</i> , 1999 , 193-195, 857-911	23.2	41
51	Holo- and hemidirected lead(II) in the polymeric [Pb(4)(μ -3,4-TDTA) ₂ (H ₂ O) ₂]*4H ₂ O complex. N,N,N',N''-tetraacetate ligands derived from o-phenylenediamines as sequestering agents for lead(II). <i>Inorganic Chemistry</i> , 2002 , 41, 6048-55	5.1	40
50	A rare alb-4,8-Cmce metal-coordination network based on tetrazolate and phosphonate functionalized 1,3,5,7-tetraphenyladamantane. <i>CrystEngComm</i> , 2013 , 15, 1235	3.3	37
49	Hydrophobic-exterior layer structures and magnetic properties of trinuclear copper complexes with chiral amino alcoholate ligands. <i>New Journal of Chemistry</i> , 2012 , 36, 1596	3.6	37
48	Heteronuclear, mixed-metal Ag(I)-Mn(II) coordination polymers with bridging N-pyridinylisonicotinohydrazide ligands: synthesis, crystal structures, magnetic and photoluminescence properties. <i>Dalton Transactions</i> , 2014 , 43, 11925-35	4.3	36
47	Versatile supramolecular self-assembly. Part I. Network formation and magnetic behaviour of the alkaline salts of the bis(malonate)cuprate(II) anion. <i>CrystEngComm</i> , 2006 , 8, 507-529	3.3	36
46	Versatile supramolecular self-assembly. <i>CrystEngComm</i> , 2006 , 8, 530-544	3.3	35
45	Tetramethyl Carboxylic Acids Derived from o-Phenylenediamines as Sequestering Agents for Iron(III): Thermodynamic Studies. X-ray Crystal Structure of Sodium Aqua(4-chloro-1,2-phenylenediamine-N,N,N',N''-tetraacetato)ferrate(III)·Water (1/1.5). <i>Inorganic Chemistry</i> , 1997 , 36, 4108-4114	5.1	32
44	Metamagnetism in hydrophobically induced carboxylate (phenylmalonate)-bridged copper(II) layers. <i>Chemical Communications</i> , 2006 , 2857-9	5.8	31
43	Protonated malonate: the influence of the hydrogen bonds on the magnetic behaviour. <i>CrystEngComm</i> , 2004 , 6, 443-450	3.3	30
42	Solution studies of complexes of iron(III) with iminodiacetic, alkyl-substituted iminodiacetic and nitrilotriacetic acids by potentiometry and cyclic voltammetry. <i>Inorganica Chimica Acta</i> , 1999 , 291, 158-165	2.7	29
41	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. <i>Polyhedron</i> , 2018 , 147, 142-151	2.7	28

40	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. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 136, 187-192	6.4	27
39	Interactions of nitric oxide with copper(II) dithiocarbamates in aqueous solution. <i>Journal of Inorganic Biochemistry</i> , 2003 , 95, 283-90	4.2	27
38	Synthesis, characterization and magnetic properties of a dinuclear oxidovanadium(IV) complex: Magneto-structural DFT studies on the effects of out-of-plane OCH_3 angle. <i>Polyhedron</i> , 2017 , 122, 194-202	2.7	24
37	Luminescent polymeric film containing an Eu(III) complex acting as UV protector and down-converter for Si-based solar cells and modules. <i>Surface and Coatings Technology</i> , 2015 , 271, 106-114	1.4	22
36	Triangular oxalate clusters $[\text{W}(\text{O})_2(\mu_3\text{-S})(\mu_2\text{-S})_2(\text{C}_2\text{O}_4)_3]^{2-}$ as building blocks for coordination polymers and nanosized complexes. <i>Inorganic Chemistry</i> , 2007 , 46, 2115-23	5.1	21
35	1,3,5,7-Tetrakis(tetrazol-5-yl)-adamantane: the smallest tetrahedral tetrazole-functionalized ligand and its complexes formed by reaction with anhydrous $\text{M}(\text{II})\text{Cl}_2$ ($\text{M} = \text{Mn}, \text{Cu}, \text{Zn}, \text{Cd}$). <i>Dalton Transactions</i> , 2014 , 43, 12590-605	4.3	20
34	Building-block process for the synthesis of new chromium(III) malonate complexes. <i>CrystEngComm</i> , 2010 , 12, 2711	3.3	19
33	$[\text{Cu}_3(\text{Hmesox})_3]^{3-}$: a precursor for the rational design of chiral molecule-based magnets ($\text{H}_4\text{mesox} = 2$ -dihydroxymalonic acid). <i>Inorganic Chemistry</i> , 2010 , 49, 7880-9	5.1	17
32	The effect of the orientation of the Jahn-Teller distortion on the magnetic interactions of trinuclear mixed-valence $\text{Mn}(\text{II})/\text{Mn}(\text{III})$ complexes. <i>Dalton Transactions</i> , 2019 , 48, 13799-13812	4.3	16
31	Synthesis, crystal structure and magnetic properties of a pentanuclear $\text{Mn}(\text{III})$ cluster with 1,2,4-triazole based Schiff base ligand. <i>Inorganica Chimica Acta</i> , 2020 , 505, 119461	2.7	15
30	Magnetic properties of copper(II) complexes containing peptides. Crystal structure of $[\text{Cu}(\text{phe-leu})]$. <i>Journal of Molecular Structure</i> , 2006 , 797, 179-183	3.4	15
29	Crystal structure and magneto-structural investigation of alkoxido bridged dinuclear $\text{Fe}(\text{III})$ complexes with 1,3-oxazolidine ligands. <i>Polyhedron</i> , 2019 , 162, 20-29	2.7	13
28	Influence of the coligand in the magnetic properties of a series of copper(II) phenylmalonate complexes. <i>CrystEngComm</i> , 2014 , 16, 8106-8118	3.3	13
27	Copper(II)-methylmalonate complexes with unidentate N-donor ligands: Syntheses, structural characterization and magnetic properties. <i>Polyhedron</i> , 2009 , 28, 1802-1807	2.7	13
26	A new eight-coordinate complex of manganese(II): synthesis, crystal structure, spectroscopy and magnetic properties of $[\text{Mn}(\text{Hoxam})_2(\text{H}_2\text{O})_4]$ ($\text{H}_2\text{oxam} = \text{oxamic acid}$). <i>Inorganica Chimica Acta</i> , 2001 , 315, 120-125	2.7	13
25	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. <i>Polyhedron</i> , 2017 , 123, 361-375	2.7	11
24	Highly luminescent film as enhancer of photovoltaic devices. <i>Journal of Luminescence</i> , 2018 , 201, 148-155	5.8	10
23	Two-dimensional (6,3) networks obtained with the $\{\text{Cu}_3(\text{Hmesox})_3\}^{3-}$ secondary building unit ($\text{H}_4\text{mesox} = \text{mesoxalic acid}$). <i>CrystEngComm</i> , 2012 , 14, 4289	3.3	10

22	Copper(II)-phenylmalonate complexes with the bifunctional ligands nicotinamide and isonicotinamide. <i>Polyhedron</i> , 2011 , 30, 2451-2458	2.7	10
21	Antiferromagnetically Coupled Dimeric Dodecacopper Supramolecular Architectures of Macrocyclic Ligands with a Symmetrical β -BO ₃ (3-) Central Moiety. <i>Inorganic Chemistry</i> , 2015 , 54, 6873-84	5.1	9
20	Synthesis, molecular structure and magnetic properties of a rhenium(IV) compound with catechol. <i>Journal of Molecular Structure</i> , 2009 , 921, 80-84	3.4	9
19	A ferromagnetically coupled copper(II) trinuclear secondary building unit as precursor for the preparation of molecule-based magnets. <i>Inorganica Chimica Acta</i> , 2011 , 371, 47-52	2.7	9
18	Bis(benzotriazol-1-yl)methane as a linker in the assembly of new copper(II) coordination polymers: Synthesis, structure and investigations. <i>Polyhedron</i> , 2012 , 48, 253-263	2.7	8
17	Downshifting maximization procedure applied to [Eu(bphen)(tta) ₃] at different concentrations applied to a photovoltaic device and covered with a hemispherical reflector. <i>Sensors and Actuators A: Physical</i> , 2018 , 271, 60-65	3.9	7
16	Synthesis, crystal structure and magnetic properties of a trinuclear phenolate bridged manganese complex containing Mn(II)Mn(III) ions. <i>RSC Advances</i> , 2014 , 4, 36175	3.7	7
15	Mesoxalate as Cu(II)Mn(III) linker in the construction of MOFs in DMSO/water medium. <i>CrystEngComm</i> , 2015 , 17, 6555-6565	3.3	5
14	Cation effect on the crystal structure of polynuclear complexes with 2,2'-oxydiacetate as bridging ligand. <i>Inorganica Chimica Acta</i> , 2013 , 394, 196-202	2.7	5
13	Visible and NIR emitting Yb(III) and Er(III) complexes sensitized by β -diketonates and phenanthroline derivatives.. <i>RSC Advances</i> , 2020 , 10, 27815-27823	3.7	5
12	Effect of the apical ligand on the geometry and magnetic properties of copper(II)/mesoxalate trinuclear units. <i>Dalton Transactions</i> , 2017 , 46, 5260-5268	4.3	4
11	Crystal structure of the 3-D complex [(H ₂ O)Cd(B,4-TDTA)Cd(H ₂ O)]. Potentiometric and ¹¹³ Cd NMR studies in aqueous solution (3,4-TDTA = 3,4-toluenediamine-N,N,N',N'-tetraacetate). <i>Dalton Transactions RSC</i> , 2001 , 1559-1565		4
10	Alternative and fully experimental procedure for characterizing down-shifters placed on photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 185, 312-317	6.4	4
9	Bio-inspired Ni dinuclear complexes as heterogeneous catalysts for hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021 , 420, 130342	14.7	4
8	Durability analysis of the [Eu(bphen)(tta) ₃] down-shifter on Si-based PV modules exposed to extreme outdoor conditions. <i>Sensors and Actuators A: Physical</i> , 2018 , 276, 312-319	3.9	3
7	Potentiometric studies on the formation and dissociation of the L-cysteine complexes of di- μ -sulfido and di- μ -oxo molybdenum(V) [Mo ₂ O ₂ (μ -S) ₂ (cys) ₂] ₂ and [Mo ₂ O ₂ (μ -O) ₂ (cys) ₂] ₂ . <i>Journal of the Chemical Society Dalton Transactions</i> , 1998 , 2723-2726		3
6	Optical properties of Nd ³⁺ -doped Tutton salts crystals. <i>Journal of Luminescence</i> , 2017 , 192, 136-140	3.8	2
5	Magnetostructural relationships in polymorphic ethylmalonate-containing copper(II) coordination polymers. <i>CrystEngComm</i> , 2018 , 20, 7464-7472	3.3	2

4	Crystal structure and magnetic interactions of a new alkoxido and azido bridged 1D copper(II) coordination polymer. <i>Journal of Solid State Chemistry</i> , 2021 , 303, 122484	3.3	2
3	Evolution of the external quantum efficiency of Si-based PV minimodules with encapsulated down-shifters and aged under UV radiation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020 , 261, 114763	3.1	1
2	Potassium Aqua(3,4-toluenediamine-N,N,N',N''tetraacetato)ferrate(III)·Water (1/1.5). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1996 , 52, 1618-1621		1
1	Synthesis, structure and magnetic properties of a cobalt(II) mesoxalate 1D coordination polymer. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 485-489	1.3	0