

# Isabel Castro

## List of Publications by Year in descending order

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78  
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3,833  
citations

101496

36  
h-index

123376

61  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3028  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-TC molecular-based magnets: a ferromagnetic bimetallic chromium(III)-nickel(II) cyanide with TC = 90 K. <i>Journal of the American Chemical Society</i> , 1992, 114, 9213-9214.	6.6	386
2	Field-Induced Slow Magnetic Relaxation in a Six-Coordinate Mononuclear Cobalt(II) Complex with a Positive Anisotropy. <i>Journal of the American Chemical Society</i> , 2012, 134, 15704-15707.	6.6	358
3	Molecular magnetism, quo vadis? A historical perspective from a coordination chemist viewpoint†. <i>Coordination Chemistry Reviews</i> , 2017, 339, 17-103.	9.5	279
4	Field-Induced Hysteresis and Quantum Tunneling of the Magnetization in a Mononuclear Manganese(III) Complex. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14075-14079.	7.2	150
5	Spin Crossover in the 2,2'-Bipyrimidine- (bpym-) Bridged Iron(II) Complexes [Fe(L)(NCX)2]2(bpym) (L = 2, 3)†. <i>Inorganic Chemistry</i> , 1997, 36, 455-464.	1.9	114
6	Guest-dependent single-ion magnet behaviour in a cobalt(II) metal-organic framework. <i>Chemical Science</i> , 2016, 7, 2286-2293.	3.7	110
7	Synthesis, Structural Characterization (X-ray and EXAFS), and Magnetic Properties of Polynuclear Manganese(II) Complexes with Chlorobenzoato Bridges. <i>Inorganic Chemistry</i> , 1998, 37, 788-798.	1.9	97
8	Syntheses, crystal structures and magnetic properties of chromato-, sulfato-, and oxalato-bridged dinuclear copper(II) complexes. <i>Inorganica Chimica Acta</i> , 2000, 300-302, 846-854.	1.2	89
9	Exchange interaction through a croconato bridge: synthesis, crystal structure, and magnetic properties of (μ-croconato)bis[μ-bis(2-pyridylcarbonyl)amido]copper(II) trihydrate. <i>Inorganic Chemistry</i> , 1992, 31, 1889-1894.	1.9	87
10	Reversible Solvatomagnetic Switching in a Spongelike Manganese(II)-Copper(II) 3D Open Framework with a Pillared Square/Octagonal Layer Architecture. <i>Chemistry - A European Journal</i> , 2012, 18, 1608-1617.	1.7	86
11	Oxamidato complexes. 3. A study of the formation of homo- and heteropolymetallic Cu(II)H2apoxM(II) complexes (H2apox = N,N'-bis(3-aminopropyl)oxamide; M(II) = Mn, Co, Ni, Cu, Zn, Cd). Synthesis and crystal structure of [Cu2(apox)(NCO)2]. <i>Inorganic Chemistry</i> , 1992, 31, 784-791.	1.9	81
12	Oxamidato complexes. 5. Influence of the steric constraints on the complex formation between copper(II) and N,N'-(alkyl-substituted)oxamides. Synthesis and crystal structure of [Cu2(mapox)(N3)2]n		

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19	Formation in solution, synthesis, and electrochemical study of oxalato complexes of N,N'-ethylenebis(salicylideneiminato)-chromium(III) and -iron(III): crystal structures of piperidinium [N,N'-ethylenebis(salicylideneiminato)](oxalato-O1O2)-chromate(III) and ferrate(III). <i>Journal of the Chemical Society Dalton Transactions</i> , 1989, , 729-738.	1.1	55
20	Complex formation between squarate (C4O4 <sup>2-</sup> ) and Cu(II) [L = 2,2'-bipyridyl, 2,2':6,6',2''-terpyridyl or bis(2-pyridylcarbonyl)amide anion (bpca)] in dimethyl sulphoxide solution. Crystal structure of [Cu2(bpca)2(H2O)2(C4O4)]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991, , 2533-2538.	1.1	55
21	Magnetic Studies on 1/4-Azido Polynuclear Nickel(II) Compounds with the 222-tet Ligand. Crystal Structure of (1/4-N3)2[Ni(222-tet)]2(BPh4)2 (222-tet = Triethylenetetramine) and EXAFS Structural Characterization of the Triangular Compounds (1/4-N3)3[Ni(222-tet)]3(X)3 (X = PF6-, ClO4-). <i>Inorganic Chemistry</i> , 1997, 36, 4633-4640.	1.9	54
22	Formation in solution, synthesis and crystal structure of 1/4-oxalatobis[bis(2-pyridylcarbonyl)amido] dicopper(II). <i>Inorganica Chimica Acta</i> , 1989, 161, 97-104.	1.2	53
23	Complex formation between oxalate and (2,2':6,6',2''-terpyridyl)copper(II) in dimethyl sulphoxide solution. Synthesis and crystal structures of mono- and di-nuclear complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991, , 1937-1944.	1.1	53
24	Syntheses, crystal structures and magnetic properties of [Ni2(C2O4)(tren)2][ClO4]2 and [Ni2(C4O4)(tren)2(H2O)2][ClO4]2 [tren = tris(2-aminoethyl)amine]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 811-818.	1.1	53
25	Copper(II)-assisted hydrolysis of 2,4,6-tris(2-pyridyl)-1,3,5-triazine. Part 3. Crystal structures of diaqua[bis(2-pyridylcarbonyl)amido]copper(II) nitrate dihydrate and aquabis(pyridine-2-carboxamide)copper(II) nitrate monohydrate. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 891-897.	1.1	51
26	Slow magnetic relaxation in carbonato-bridged dinuclear lanthanide(III) complexes with 2,3-quinoxalinediolate ligands. <i>Chemical Communications</i> , 2012, 48, 7726.	2.2	50
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37	Coligand Effects on the Field-Induced Double Slow Magnetic Relaxation in Six-Coordinate Cobalt(II) Single-Ion Magnets (SIMs) with Positive Magnetic Anisotropy. <i>Inorganic Chemistry</i> , 2019, 58, 15726-15740.	1.9	35
38	Ferro- and ferri-magnetism in oximato-bridged MnIIICuIIchains (M = Mn and Fe). A molecular based ferromagnet with T <sub>c</sub> = 9 K: [MnIIICuII-bis(1,2-cyclohexanedioneoximato)(acetato)(H <sub>2</sub> O) <sub>2</sub> ]. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 2615-2616.	2.0	34
39	Multipurpose x-ray absorption cell. <i>Analytical Chemistry</i> , 1993, 65, 2545-2548.	3.2	33
40	A Family of Oxamido-Bridged MnIIICuIIBimetallic Molecular-Based Ferrimagnets: Synthesis, EXAFS Structural Characterization, and Magnetic Properties. <i>Chemistry of Materials</i> , 1997, 9, 201-209.	3.2	32
41	Dicopper(II) pyrazolenophanes: Ligand effects on their structures and magnetic properties. <i>Coordination Chemistry Reviews</i> , 2016, 315, 135-152.	9.5	31
42	Complex formation between croconate (C <sub>5</sub> O <sub>5</sub> <sup>2-</sup> ) and CuII [L = 2,2'-bipyridine(bipy), 2,2':6,6'-terpyridine or bis(2-pyridylcarbonyl)amide anion] in dimethyl sulfoxide solution. Crystal structure of [Cu(bipy)(C <sub>5</sub> O <sub>5</sub> )(H <sub>2</sub> O)]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1992, , 2271-2275.	1.1	30
43	Solid-State Dinuclear-to-Trinuclear Conversion in an Oxalato-Bridged Chromium(III)-Cobalt(II) Complex as a New Route toward Single-Molecule Magnets. <i>Inorganic Chemistry</i> , 2011, 50, 2073-2075.	1.9	30
44	Dinuclear copper(II) complexes as testing ground for molecular magnetism theory. <i>Polyhedron</i> , 2019, 169, 66-77.	1.0	28
45	Formation in solution, synthesis, crystal structure, and magnetic properties of μ-hydroxo-μ-perchlorato-bis[(diethylenetriamine) perchloratocopper(II)]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 2207-2212.	1.1	27
46	Synthesis, spectroscopic and structural characterization of [Cu(phen)(C <sub>5</sub> O <sub>5</sub> )(H <sub>2</sub> O)]·H <sub>2</sub> O, [Ni(terpy)(C <sub>5</sub> O <sub>5</sub> )(H <sub>2</sub> O)]·H <sub>2</sub> O and [Ni(terpy) <sub>2</sub> ](NO <sub>3</sub> ) <sub>2</sub> ·0.5H <sub>2</sub> O. <i>Journal of Molecular Structure</i> , 2005, 741, 121-128.	1.8	27
47	Solution chemistry of N,N'-ethylenebis(salicylideneimine) and its copper(II), nickel(II) and iron(III) complexes. <i>Inorganica Chimica Acta</i> , 1991, 189, 195-206.	1.2	25
48	Manganese(IV) oxamato-catalyzed oxidation of secondary alcohols to ketones by dioxygen and pivalaldehyde. <i>Chemical Communications</i> , 1998, , 989-990.	2.2	25
49	Bioinspired manganese(II) complexes with a clickable ligand for immobilisation on a solid support. <i>Dalton Transactions</i> , 2014, 43, 9704-9713.	1.6	22
50	Synthesis, crystal structure and magnetic properties of the first structurally characterized 1,2-dithiocroconato-containing Cu(II) complex, [Cu(bpca)(H <sub>2</sub> O)] <sub>2</sub> [Cu(1,2-dtcr) <sub>2</sub> ]·2H <sub>2</sub> O. <i>Inorganica Chimica Acta</i> , 1996, 250, 219-225.	1.2	21
51	Tuning up the T <sub>c</sub> in Mn(II)Cu(II) bimetallic planes and design of molecular-based magnets. <i>Inorganica Chimica Acta</i> , 1998, 278, 159-169.	1.2	20
52	Coordination Modes of the 1,3-Dithiosquarate (1,3-dtsq) Ligand. Syntheses, Crystal Structures, and Magnetic Properties of [Ni(tren)(1,3-dtsq)(H <sub>2</sub> O)] and [Ni <sub>2</sub> (tren) <sub>2</sub> (1,3-dtsq)](ClO <sub>4</sub> ) <sub>2</sub> [tren = Tris(2-aminoethyl)amine]. <i>Inorganic Chemistry</i> , 1996, 35, 2858-2865.	1.9	19
53	Field-induced slow relaxation of magnetisation in two one-dimensional homometallic dysprosium(III) complexes based on alpha- and beta-amino acids. <i>Dalton Transactions</i> , 2020, 49, 9155-9163.	1.6	18
54	Iron(III) oxamato-catalyzed epoxidation of alkenes by dioxygen and pivalaldehyde. <i>Chemical Communications</i> , 1997, , 2283-2284.	2.2	17

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55	Theoretical Insights into the Ferromagnetic Coupling in Oxalato-Bridged Chromium(III)-Cobalt(II) and Chromium(III)-Manganese(II) Dinuclear Complexes with Aromatic Diimine Ligands. <i>Inorganic Chemistry</i> , 2012, 51, 3289-3301.	1.9	17
56	Field-induced slow magnetic relaxation and magnetocaloric effects in an oxalato-bridged gadolinium(III)-based 2D MOF. <i>Dalton Transactions</i> , 2021, 50, 3801-3805.	1.6	17
57	Dithiosquarate (dtsq) complexes of nickel(II). Syntheses and crystal structures of [Ni(phen) <sub>2</sub> (1,2-dtsq)]·3.5H <sub>2</sub> O, [Ni(phen) <sub>2</sub> (1,3-dtsq)] and [Ni(tren)(1,2-dtsq)] [phen=1,10-phenanthroline; tren=tris(2-aminoethyl)amine]. <i>Inorganica Chimica Acta</i> , 2003, 353, 159-167.	1.2	14
58	Magnetic coupling and spin topology in linear oxalato-bridged tetranuclear chromium(III)-copper(II) complexes with aromatic diimine ligands. <i>Polyhedron</i> , 2013, 52, 1246-1255.	1.0	14
59	Biomimetic Mn-Catalases Based on Dimeric Manganese Complexes in Mesoporous Silica for Potential Antioxidant Agent. <i>Inorganic Chemistry</i> , 2015, 54, 10111-10125.	1.9	14
60	Potentiometric study of the formation of hydroxo complexes of [Cu(terpy)] <sub>2</sub> <sup>+</sup> . Synthesis and crystal structure of [Cu(terpy)(H <sub>2</sub> O)](CF <sub>3</sub> SO <sub>3</sub> ) <sub>2</sub> . <i>Transition Metal Chemistry</i> , 1992, 17, 263-269.	0.7	13
61	Molecular Self-Assembly in a Family of Oxo-Bridged Dinuclear Ruthenium(IV) Systems. <i>Crystal Growth and Design</i> , 2020, 20, 2044-2056.	1.4	13
62	Ligand Effects on the Structure and Magnetic Properties of Alternating Copper(II) Chains with 2,2'-Bipyrimidine- and Polymethyl-Substituted Pyrazolates as Bridging Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 5759-5771.	1.9	10
63	Magneto-structural correlations in asymmetric oxalato-bridged dicopper(II) complexes with polymethyl-substituted pyrazole ligands. <i>Journal of Coordination Chemistry</i> , 2018, 71, 657-674.	0.8	10
64	Study of the interaction of [Cu(bipy)] <sub>2</sub> <sup>+</sup> with oxalate and squarate in aqueous solution. <i>Transition Metal Chemistry</i> , 1988, 13, 455-458.	0.7	9
65	A solution study of complex formation between iron(III) and oxalate in dimethylsulphoxide. <i>Transition Metal Chemistry</i> , 1991, 16, 31-34.	0.7	9
66	Detection of Hypoxanthine from Inosine and Unusual Hydrolysis of Immunosuppressive Drug Azathioprine through the Formation of a Diruthenium(III) System. <i>Biosensors</i> , 2021, 11, 19.	2.3	8
67	A Gadolinium(III) Complex Based on the Thymine Nucleobase with Properties Suitable for Magnetic Resonance Imaging. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4586.	1.8	8
68	A novel adenine-based diruthenium(III) complex: Synthesis, crystal structure, electrochemical properties and evaluation of the anticancer activity. <i>Journal of Inorganic Biochemistry</i> , 2022, 232, 111812.	1.5	8
69	Squarate and croconate in designing one- and two-dimensional oxamidato-bridged copper(II) complexes: synthesis, crystal structures and magnetic properties of [Cu <sub>2</sub> (apox)(C <sub>4</sub> O <sub>4</sub> )(H <sub>2</sub> O) <sub>2</sub> ·nH <sub>2</sub> O] and [Cu <sub>4</sub> (apox) <sub>2</sub> (C <sub>5</sub> O <sub>5</sub> ) <sub>2</sub> ·6AH <sub>2</sub> O]. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 2001, 4, 235-243.	0.1	6
70	Cu(II) and Cu(I) complexes with 1,2-dithiosquarate as a ligand; from molecular compounds to supramolecular network structures. <i>Journal of Molecular Structure</i> , 2008, 876, 328-338.	1.8	6
71	Self-assembly, binding ability and magnetic properties of dicopper(II) pyrazolenophanes. <i>CrystEngComm</i> , 2016, 18, 437-449.	1.3	6
72	Magnetic Switching in Vapochromic Oxalato-Bridged 2D Copper(II)-Pyrazole Compounds for Biogenic Amine Sensing. <i>Magnetochemistry</i> , 2021, 7, 65.	1.0	5

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73	One-Dimensional Gadolinium (III) Complexes Based on Alpha- and Beta-Amino Acids Exhibiting Field-Induced Slow Relaxation of Magnetization. <i>Inorganics</i> , 2022, 10, 32.	1.2	4
74	A bioinspired heterogeneous catalyst based on the model of the manganese-dependent dioxygenase for selective oxidation using dioxygen. <i>RSC Advances</i> , 2017, 7, 17336-17345.	1.7	3
75	Ferro- and Antiferromagnetic Interactions in Oxalato-Centered Inverse Hexanuclear and Chain Copper(II) Complexes with Pyrazole Derivatives. <i>Molecules</i> , 2021, 26, 2792.	1.7	3
76	Molecular Self-Assembly of an Unusual Dinuclear Ruthenium(III) Complex Based on the Nucleobase Guanine. <i>Crystals</i> , 2022, 12, 448.	1.0	3
77	Slow relaxation of the magnetization in Oximate-bridged heterobimetallic Copper(II)-Manganese(III) chains. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 976-986.	0.6	2
78	Alcohol Oxidation by Dioxygen and Aldehydes Catalysed by Square-Planar Cobalt(III) Complexes of Disubstituted Oxamides and Related Ligands. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 1235-1247.	1.2	1