

# Isabel Castro

## List of Publications by Year in descending order

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78  
papers

3,833  
citations

101496

36  
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80  
all docs

80  
docs citations

80  
times ranked

3028  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Molecular Self-Assembly of an Unusual Dinuclear Ruthenium(III) Complex Based on the Nucleobase Guanine. <i>Crystals</i> , 2022, 12, 448.  | 1.0 | 3         |
| 2  | 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         |
| 3  | 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         |
| 4  | 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        |
| 5  | 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         |
| 6  | 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         |
| 7  | 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         |
| 8  | Magnetic Switching in Vapochromic Oxalato-Bridged 2D Copper(II)-Pyrazole Compounds for Biogenic Amine Sensing. <i>Magnetochemistry</i> , 2021, 7, 65.   | 1.0 | 5         |
| 9  | 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        |
| 10 | 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        |
| 11 | Dinuclear copper(II) complexes as testing ground for molecular magnetism theory. <i>Polyhedron</i> , 2019, 169, 66-77.  | 1.0 | 28        |
| 12 | 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        |
| 13 | 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        |
| 14 | Molecular magnetism, quo vadis? A historical perspective from a coordination chemist viewpoint†. <i>Coordination Chemistry Reviews</i> , 2017, 339, 17-103.   | 9.5 | 279       |
| 15 | Reversible solvatomagnetic switching in a single-ion magnet from an entatic state. <i>Chemical Science</i> , 2017, 8, 3694-3702.  | 3.7 | 67        |
| 16 | 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         |
| 17 | Guest-dependent single-ion magnet behaviour in a cobalt(II) metal-organic framework. <i>Chemical Science</i> , 2016, 7, 2286-2293.  | 3.7 | 110       |
| 18 | Dicopper(II) pyrazolenophanes: Ligand effects on their structures and magnetic properties. <i>Coordination Chemistry Reviews</i> , 2016, 315, 135-152.  | 9.5 | 31        |

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|----|--|-----|-----------|
| 19 | Self-assembly, binding ability and magnetic properties of dicopper(ii) pyrazolenophanes. <i>CrystEngComm</i> , 2016, 18, 437-449.  | 1.3 | 6         |
| 20 | 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        |
| 21 | 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        |
| 22 | Bioinspired manganese complexes with a clickable ligand for immobilisation on a solid support. <i>Dalton Transactions</i> , 2014, 43, 9704-9713.   | 1.6 | 22        |
| 23 | 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        |
| 24 | 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       |
| 25 | 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       |
| 26 | 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        |
| 27 | 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        |
| 28 | 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        |
| 29 | 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        |
| 30 | 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         |
| 31 | Ferromagnetic coupling and magnetic anisotropy in oxalato-bridged trinuclear chromium(iii)-cobalt(ii) complexes with aromatic diimine ligands. <i>Dalton Transactions</i> , 2010, 39, 2350-2358.   | 1.6 | 42        |
| 32 | 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         |
| 33 | Synthesis, spectroscopic and structural characterization of [Cu(phen)(C5O5)(H2O)]·H2O, [Ni(terpy)(C5O5)(H2O)]·H2O and [Ni(terpy)2](NO3)2·0.5H2O. <i>Journal of Molecular Structure</i> , 2005, 741, 121-128.   | 1.8 | 27        |
| 34 | Synthesis, structure, spectroscopy and redox chemistry of square-planar nickel(ii) complexes with tetradentate o-phenylenedioxamidates and related ligands. <i>Dalton Transactions</i> , 2005, , 2516.   | 1.6 | 62        |
| 35 | A Comparative XAS and X-ray Diffraction Study of New Binuclear Mn(III) Complexes with Catalase Activity. Indirect Effect of the Counteranion on Magnetic Properties. <i>Inorganic Chemistry</i> , 2004, 43, 6684-6698.   | 1.9 | 41        |
| 36 | Dithiosquarate (dtsq) complexes of nickel(II). Syntheses and crystal structures of [Ni(phen)2(1,2-dtsq)]·3.5H2O, [Ni(phen)2(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        |

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|----|--|-----|-----------|
| 37 | Syntheses, crystal structures and magnetic properties of di- and trinuclear croconato-bridged copper(II) complexes. Dalton Transactions RSC, 2002, , 2397-2403.  | 2.3 | 40        |
| 38 | Squarate and croconate in designing one- and two-dimensional oxamidato-bridged copper(II) complexes: synthesis, crystal structures and magnetic properties of $[\text{Cu}_2(\text{apox})(\text{C}_4\text{O}_4)(\text{H}_2\text{O})_2]_n$ ( $n=2, 3$ ) and $[\text{Cu}_4(\text{apox})_2(\text{C}_5\text{O}_5)_2]_n$ ( $n=2, 3$ ). Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry, 2001, 4, 235-243.                        | 0.1 | 6         |
| 39 | Alcohol Oxidation by Dioxygen and Aldehydes Catalysed by Square-Planar Cobalt(III) Complexes of Disubstituted Oxamides and Related Ligands. European Journal of Organic Chemistry, 2001, 2001, 1235-1247.  | 1.2 | 61        |
| 40 | Alcohol Oxidation by Dioxygen and Aldehydes Catalysed by Square-Planar Cobalt(III) Complexes of Disubstituted Oxamides and Related Ligands. European Journal of Organic Chemistry, 2001, 2001, 1235-1247.  | 1.2 | 1         |
| 41 | Syntheses, crystal structures and magnetic properties of chromato-, sulfato-, and oxalato-bridged dinuclear copper(II) complexes. Inorganica Chimica Acta, 2000, 300-302, 846-854.   | 1.2 | 89        |
| 42 | Crystal structures and magnetic properties of the squarate-O1,On-bridged dinuclear copper(II) complexes $[\text{Cu}_2(\text{phen})_4(\text{C}_4\text{O}_4)](\text{CF}_3\text{SO}_3)_2 \cdot n\text{H}_2\text{O}$ ( $n=2$ ) and $[\text{Cu}_2(\text{bipy})_4(\text{C}_4\text{O}_4)](\text{CF}_3\text{SO}_3)_2 \cdot n\text{H}_2\text{O}$ ( $n=3$ ). Inorganica Chimica Acta, 1999, 287, 173-180.  | 1.2 | 62        |
| 43 | Ferro- and Antiferromagnetic Coupling through 1,n-Dithiosquarate Bridges ( $n=2, 3$ ) in Copper(II) Dimers. Syntheses, Crystal Structures, and Magnetic Properties of $[\text{Cu}_2(\text{bpca})_2(1,2\text{-dtsq})(\text{H}_2\text{O})] \cdot 2\text{H}_2\text{O}$ and $[\text{Cu}_2(\text{bpca})_2(1,3\text{-dtsq})] \cdot 2\text{H}_2\text{O}$ . Inorganic Chemistry, 1999, 38, 4680-4687.  | 1.9 | 40        |
| 44 | Tuning up the Tc in Mn(II)Cu(II) bimetallic planes and design of molecular-based magnets. Inorganica Chimica Acta, 1998, 278, 159-169.   | 1.2 | 20        |
| 45 | Manganese(IV) oxamato-catalyzed oxidation of secondary alcohols to ketones by dioxygen and pivalaldehyde. Chemical Communications, 1998, , 989-990.  | 2.2 | 25        |
| 46 | Synthesis, Structural Characterization (X-ray and EXAFS), and Magnetic Properties of Polynuclear Manganese(II) Complexes with Chlorobenzoato Bridges. Inorganic Chemistry, 1998, 37, 788-798.  | 1.9 | 97        |
| 47 | Iron(III) oxamato-catalyzed epoxidation of alkenes by dioxygen and pivalaldehyde. Chemical Communications, 1997, , 2283-2284.  | 2.2 | 17        |
| 48 | Syntheses, crystal structures and magnetic properties of $[\text{Ni}_2(\text{C}_2\text{O}_4)(\text{tren})_2][\text{ClO}_4]_2$ and $[\text{Ni}_2(\text{C}_4\text{O}_4)(\text{tren})_2(\text{H}_2\text{O})_2][\text{ClO}_4]_2$ [ $\text{tren} = \text{tris}(2\text{-aminoethyl})\text{amine}$ ]. Journal of the Chemical Society Dalton Transactions, 1997, , 811-818.   | 1.1 | 53        |
| 49 | A Family of Oxamido-Bridged MnII/CuII Bimetallic Molecular-Based Ferrimagnets: Synthesis, EXAFS Structural Characterization, and Magnetic Properties. Chemistry of Materials, 1997, 9, 201-209.  | 3.2 | 32        |
| 50 | Spin Crossover in the 2,2'-Bipyrimidine- (bpym-) Bridged Iron(II) Complexes $[\text{Fe}(\text{L})(\text{NCX})_2]_2(\text{bpym})$ ( $\text{L} = 2, 3$ ). Thermogravimetric, Calorimetric, and Mössbauer Spectroscopy Studies. Inorganic Chemistry, 1997, 36, 455-464.   | 1.9 | 114       |
| 51 | Magnetic Studies on $1/4$ -Azido Polynuclear Nickel(II) Compounds with the 222-tet Ligand. Crystal Structure of $(1/4\text{-N}_3)_2[\text{Ni}(222\text{-tet})]_2(\text{BPh}_4)_2$ (222-tet = Triethylenetetramine) and EXAFS Structural Characterization of the Triangular Compounds $(1/4\text{-N}_3)_3[\text{Ni}(222\text{-tet})]_3(\text{X})_3$ ( $\text{X} = \text{PF}_6^-, \text{ClO}_4^-$ ). Inorganic Chemistry, 1997, 36, 4633-4640. | 1.9 | 54        |
| 52 | Coordination Modes of the 1,3-Dithiosquarate (1,3-dtsq) Ligand. Syntheses, Crystal Structures, and Magnetic Properties of $[\text{Ni}(\text{tren})(1,3\text{-dtsq})(\text{H}_2\text{O})]$ and $[\text{Ni}_2(\text{tren})_2(1,3\text{-dtsq})(\text{ClO}_4)_2][\text{tren} = \text{Tris}(2\text{-aminoethyl})\text{amine}]$ . Inorganic Chemistry, 1996, 35, 2858-2865.  | 1.9 | 19        |
| 53 | Synthesis, crystal structure and magnetic properties of the first structurally characterized 1,2-dithiocroconato-containing Cu(II) complex, $[\text{Cu}(\text{bpca})(\text{H}_2\text{O})]_2[\text{Cu}(1,2\text{-dtcr})_2] \cdot 2\text{H}_2\text{O}$ . Inorganica Chimica Acta, 1996, 250, 219-225.  | 1.2 | 21        |
| 54 | Synthesis and Magnetic Properties of a Tetranuclear Copper(II) Complex with a $\mu_4$ -1,2,3,4-Squarato Coordination Mode. Crystal Structure of $(\mu_4\text{-}1,2,3,4\text{-Squarato})\text{tetrakis}[(\text{tris}(2\text{-aminoethyl})\text{amine})\text{copper}(\text{II})]$ Perchlorate. Inorganic Chemistry, 1995, 34, 4903-4909.   | 1.9 | 67        |

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|----|---|-----|-----------|
| 55 | Syntheses, crystal structures and electronic properties of $[\text{Cu}(\text{bipym})(\text{C}_4\text{O}_4)(\text{H}_2\text{O})_3] \cdot 2\text{H}_2\text{O}$ and $[\text{Cu}_2(\text{bipym})(\text{C}_4\text{O}_4)_2(\text{H}_2\text{O})_6]$ (bipym = 2,2'-bipyrimidine). Journal of the Chemical Society Dalton Transactions, 1995, , 3207-3213. | 1.1 | 37        |

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|----|--|-----|-----------|
| 73 | Synthesis and magnetic properties of bis( $\mu_4$ -hydroxo)bis[(2,2'-bipyridyl)copper(II)] squarate. Crystal structure of bis( $\mu_4$ -hydroxo)bis[(2,2'-bipyridyl)copper(II)] squarate tetrahydrate. <i>Inorganica Chimica Acta</i> , 1990, 170, 251-257.  | 1.2 | 43        |
| 74 | Formation in solution, synthesis, crystal structure, and magnetic properties of $\mu$ -hydroxo- $\mu$ -perchlorato-bis[(diethylenetriamine) perchloratocopper(II)]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 2207-2212.  | 1.1 | 27        |
| 75 | 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        |
| 76 | Formation in solution, synthesis and crystal structure of $\mu_4$ -oxalatobis[bis(2-pyridylcarbonyl)amido] dicopper(II). <i>Inorganica Chimica Acta</i> , 1989, 161, 97-104.   | 1.2 | 53        |
| 77 | 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        |
| 78 | Study of the interaction of [Cu(bipy)] <sup>2+</sup> with oxalate and squarate in aqueous solution. <i>Transition Metal Chemistry</i> , 1988, 13, 455-458.   | 0.7 | 9         |