

# LeonÃ- A Barrios

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,405  
citations

279798

23  
h-index

197818

49  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2986  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unravelling of a [High Spin↔Low Spin] ↔ [Low Spin↔High Spin] Equilibrium in Spin↔Crossover Iron(II) Dinuclear Helicates Using Paramagnetic NMR Spectroscopy. <i>Angewandte Chemie</i> , 2022, 134, e202110310.	2.0	6
2	A Ferric Guest Inside a Spin Crossover Ferrous Helicate. <i>Chemical Communications</i> , 2022, , .	4.1	5
3	Piano-Stool Ruthenium(II) Complexes with Delayed Cytotoxic Activity: Origin of the Lag Time. <i>Inorganic Chemistry</i> , 2021, 60, 7974-7990.	4.0	16
4	Unravelling of a [High Spin↔Low Spin] ↔ [Low Spin↔High Spin] Equilibrium in Spin↔Crossover Iron(II) Dinuclear Helicates Using Paramagnetic NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, , .	13.8	14
5	Dinuclear Copper(II) Complexes Exhibiting Reversible Photochromism. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 561-567.	2.0	4
6	A heterometallic [LnLn <sup>2</sup> Ln] lanthanide complex as a qubit with embedded quantum error correction. <i>Chemical Science</i> , 2020, 11, 10337-10343.	7.4	52
7	A dissymmetric [Gd <sub>2</sub> ] coordination molecular dimer hosting six addressable spin qubits. <i>Communications Chemistry</i> , 2020, 3, .	4.5	30
8	Selective signalling of alcohols by a molecular lattice and mechanism of single-crystal-to-single-crystal transformations. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3165-3175.	6.0	10
9	Two [Ln <sub>4</sub> ] molecular rings folded as compact tetrahedra. <i>Dalton Transactions</i> , 2020, 49, 7182-7188.	3.3	1
10	Controlled Heterometallic Composition in Linear Trinuclear [LnCeLn] Lanthanide Molecular Assemblies. <i>Chemistry - A European Journal</i> , 2019, 25, 15228-15232.	3.3	13
11	Access to indolines from primary phenylethylamines by an unexpected palladium-catalyzed C-H functionalization process. <i>RSC Advances</i> , 2019, 9, 27176-27182.	3.6	3
12	Designed asymmetric coordination helicates with bis- <sup>1</sup> 2-diketonate ligands. <i>Dalton Transactions</i> , 2019, 48, 16844-16847.	3.3	8
13	Photoactivation of the Cytotoxic Properties of Platinum(II) Complexes through Ligand Photoswitching. <i>Inorganic Chemistry</i> , 2018, 57, 4009-4022.	4.0	24
14	Drastic Effect of the Peptide Sequence on the Copper↔Binding Properties of Tripeptides and the Electrochemical Behaviour of Their Copper(II) Complexes. <i>Chemistry - A European Journal</i> , 2018, 24, 5153-5162.	3.3	24
15	Highly Cytotoxic Ruthenium(II)-Arene Complexes from Bulky 1-Pyrenylphosphane Ligands. <i>Inorganic Chemistry</i> , 2018, 57, 14786-14797.	4.0	28
16	Encapsulation of a Cr III Single↔Ion Magnet within an Fe II Spin↔Crossover Supramolecular Host. <i>Angewandte Chemie</i> , 2018, 130, 13697-13701.	2.0	7
17	Encapsulation of a Cr<sup>III</sup> Single↔Ion Magnet within an Fe<sup>II</sup> Spin↔Crossover Supramolecular Host. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13509-13513.	13.8	48
18	Selective Lanthanide Distribution within a Comprehensive Series of Heterometallic [LnPr] Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 8429-8439.	4.0	21

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19	Thermodynamic Stability of Heterodimetallic [LnLn <sup>2</sup> ] Complexes: Synthesis and DFT Studies. Chemistry - A European Journal, 2017, 23, 5117-5125.	3.3	19
20	Guest-tuned spin crossover in flexible supramolecular assemblies templated by a halide (Cl <sup>+</sup> , Br <sup>+</sup> or I <sup>+</sup> ). Chemical Communications, 2017, 53, 569-572.	4.1	18
21	A Magneto-optical Molecular Device: Interplay of Spin Crossover, Luminescence, Photomagnetism, and Photochromism. Angewandte Chemie, 2017, 129, 15828-15833.	2.0	25
22	A Magneto-optical Molecular Device: Interplay of Spin Crossover, Luminescence, Photomagnetism, and Photochromism. Angewandte Chemie - International Edition, 2017, 56, 15622-15627.	13.8	117
23	Homoleptic versus Heteroleptic Formation of Mononuclear Fe(II) Complexes with Tris-Imine Ligands. Inorganic Chemistry, 2016, 55, 4110-4116.	4.0	28
24	Non-Switching 1,2-Dithienylethene-based Diplatinum(II) Complex Showing High Cytotoxicity. Inorganic Chemistry, 2016, 55, 5356-5364.	4.0	10
25	Guest-, Light- and Thermally-Modulated Spin Crossover in [Fe <sup>II</sup> ] <sub>2</sub> Supramolecular Helicates. Chemistry - A European Journal, 2016, 22, 8635-8645.	3.3	46
26	Molecular self-recognition: a chiral [Mn(ii) <sub>6</sub> ] wheel via donor-acceptor interactions and H-bonds. Chemical Communications, 2015, 51, 4631-4634.	4.1	1
27	New coordination features; a bridging pyridine and the forced shortest non-covalent distance between two CO <sub>3</sub> <sup>2-</sup> species. Chemical Science, 2015, 6, 123-131.	7.4	20
28	Heterodimetallic [LnLn <sup>2</sup> ] Lanthanide Complexes: Toward a Chemical Design of Two-Qubit Molecular Spin Quantum Gates. Journal of the American Chemical Society, 2014, 136, 14215-14222.	13.7	201
29	Unusual Crystal Packing in a Family of [Fe{2,6-bis(pyrazol-3-yl)pyridine} <sub>2</sub> ] <sup>2+</sup> Compounds and the Effect on the Occurrence of Spin Crossover and Its Cooperative Character. European Journal of Inorganic Chemistry, 2014, 2014, 6013-6021.	2.0	20
30	A new type of paddle-wheel coordination complex. Dalton Transactions, 2013, 42, 12185.	3.3	8
31	Elucidating Magnetic Exchange and Anisotropy in Weakly Coupled Mn <sup>III</sup> Dimers. Inorganic Chemistry, 2013, 52, 718-723.	4.0	9
32	Reprint of "A novel bis- <sup>2</sup> -diketonate ligand stabilizes a [Co(II) <sub>8</sub> ] cage that encapsulates a (1/4 <sup>3</sup> -O) <sup>-</sup> H <sup>+</sup> (1/4 <sup>3</sup> -O) <sub>2</sub> moiety". Polyhedron, 2013, 66, 274-278.	2.2	0
33	Lanthanide Contraction within a Series of Asymmetric Dinuclear [Ln <sub>2</sub> ] Complexes. Chemistry - A European Journal, 2013, 19, 5881-5891.	3.3	84
34	A novel bis- <sup>2</sup> -diketonate ligand stabilizes a [Co(II) <sub>8</sub> ] cage that encapsulates a (1/4 <sup>3</sup> -O) <sup>-</sup> H <sup>+</sup> (1/4 <sup>3</sup> -O) moiety. Polyhedron, 2013, 54, 8-12.	2.2	4
35	A molecular [Mn <sub>14</sub> ] coordination cluster featuring two slowly relaxing nanomagnets. Chemical Communications, 2012, 48, 1413-1415.	4.1	27
36	Molecular [Co(iii)Co(ii)] <sup>+</sup> assemblies of a new bis-phenol/pyrazolyl ligand. New Journal of Chemistry, 2011, 35, 1202.	2.8	5

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37	Molecular assembly of two [Co( $\text{C}_{10}\text{H}_8\text{N}_2\text{O}_2$ ) <sub>4</sub> ] linear arrays. <i>Chemical Communications</i> , 2011, 47, 707-709.	4.1	35
38	Molecular Prototypes for Spin-Based CNOT and SWAP Quantum Gates. <i>Physical Review Letters</i> , 2011, 107, 117203.	7.8	146
39	The Use of a Bis(phenylpyrazolyl)pyridyl Ligand to Prepare [Mn <sub>4</sub> ] and [Mn <sub>10</sub> ] Cage Complexes. <i>Chemistry - A European Journal</i> , 2011, 17, 4960-4963.	3.3	23
40	A Molecular Pair of [GdNi <sub>3</sub> ] Tetrahedra Bridged by Water Molecules. <i>Chemistry - A European Journal</i> , 2011, 17, 8264-8268.	3.3	58
41	Triazoles and tetrazoles: Prime ligands to generate remarkable coordination materials. <i>Coordination Chemistry Reviews</i> , 2011, 255, 485-546.	18.8	876
42	Synthesis of a novel heptacoordinated Fe(III) dinuclear complex: experimental and theoretical study of the magnetic properties. <i>Dalton Transactions</i> , 2010, 39, 4874.	3.3	35
43	Synthesis and Properties of a Family of Unsymmetric Dinuclear Complexes of Ln <sup>III</sup> (Ln = Eu, Tj) $\text{EtOq}1$	4.0	14
44	A Molecular Chain of Four Coll Ions Stabilized by a Tris-Pyridyl/Bis-?-Diketonate Ligand. <i>Australian Journal of Chemistry</i> , 2009, 62, 1130.	0.9	17
45	Designed Topology and Site-Selective Metal Composition in Tetranuclear [MM <sub>2</sub> ...M <sub>2</sub> ] Linear Complexes. <i>Chemistry - A European Journal</i> , 2009, 15, 11235-11243.	3.3	41
46	Dissymmetry of an exogenous bridging ligand facilitates the assembly of a ferromagnetic and chiral [CuII NiII] complex. <i>Dalton Transactions</i> , 2009, , 256-258.	3.3	12
47	A Mixed-Valence [Mn <sup>II</sup> Mn <sup>III</sup> Mn <sup>II</sup> ] Complex of a Linear Phenol-bis(pyrazole) Ligand with an <i>S</i> = 3 Spin Ground State. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 3871-3876.	2.0	11
48	Synthesis and properties of a novel linear [Ni <sub>4</sub> L <sub>2</sub> (py) <sub>6</sub> ] cluster: Designed ligand-controlled topology of the metals. <i>Comptes Rendus Chimie</i> , 2008, 11, 1117-1120.	0.5	16
49	Coordination Complexes Exhibiting Anion-... Interactions: Synthesis, Structure, and Theoretical Studies. <i>Inorganic Chemistry</i> , 2008, 47, 5873-5881.	4.0	72
50	Preparation and Structure of Three Solvatomorphs of the Polymer [Co(dbm) <sub>2</sub> (4ptz)] <sub>n</sub> : Spin Canting Depending on the Supramolecular Organization. <i>Inorganic Chemistry</i> , 2007, 46, 7154-7162.	4.0	50
51	Serving science through publishing. , 0, 1, 1.		1
52	Unparalleled selectivity and electronic structure of heterometallic [LnLn <sup>TM</sup> Ln] molecules as 3-qubit quantum gates. <i>Chemical Science</i> , 0, , .	7.4	6