

LeonÃ- A Barrios

List of Publications by Year in descending order

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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	Triazoles and tetrazoles: Prime ligands to generate remarkable coordination materials. <i>Coordination Chemistry Reviews</i> , 2011, 255, 485-546.	18.8	876
2	Heterodimetallic [LnLn ²] Lanthanide Complexes: Toward a Chemical Design of Two-Qubit Molecular Spin Quantum Gates. <i>Journal of the American Chemical Society</i> , 2014, 136, 14215-14222.	13.7	201
3	Molecular Prototypes for Spin-Based CNOT and SWAP Quantum Gates. <i>Physical Review Letters</i> , 2011, 107, 117203.	7.8	146
4	A Magneto-Optical Molecular Device: Interplay of Spin Crossover, Luminescence, Photomagnetism, and Photochromism. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15622-15627.	13.8	117
5	Lanthanide Contraction within a Series of Asymmetric Dinuclear [Ln ₂] Complexes. <i>Chemistry - A European Journal</i> , 2013, 19, 5881-5891.	3.3	84
6	Coordination Complexes Exhibiting Anion-π Interactions: Synthesis, Structure, and Theoretical Studies. <i>Inorganic Chemistry</i> , 2008, 47, 5873-5881.	4.0	72
7	A Molecular Pair of [GdNi ₃] Tetrahedra Bridged by Water Molecules. <i>Chemistry - A European Journal</i> , 2011, 17, 8264-8268.	3.3	58
8	A heterometallic [LnLn ² Ln] lanthanide complex as a qubit with embedded quantum error correction. <i>Chemical Science</i> , 2020, 11, 10337-10343.	7.4	52
9	Preparation and Structure of Three Solvatomorphs of the Polymer [Co(dbm) ₂ (4ptz)] _n : Spin Canting Depending on the Supramolecular Organization. <i>Inorganic Chemistry</i> , 2007, 46, 7154-7162.	4.0	50
10	Synthesis and Properties of a Family of Unsymmetric Dinuclear Complexes of Ln ^{III} (Ln = Eu, Tb, Dy, Ho, Er, Yb, Lu). <i>Journal of the American Chemical Society</i> , 2000, 122, 1000-1007.	4.0	50
11	Encapsulation of a Cr ^{III} Single-Ion Magnet within an Fe ^{II} Spin-Crossover Supramolecular Host. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13509-13513.	13.8	48
12	Guest-, Light- and Thermally-Modulated Spin Crossover in [Fe ^{II}] ₂ Supramolecular Helicates. <i>Chemistry - A European Journal</i> , 2016, 22, 8635-8645.	3.3	46
13	Designed Topology and Site-Selective Metal Composition in Tetranuclear [MM ² ...M ² M] Linear Complexes. <i>Chemistry - A European Journal</i> , 2009, 15, 11235-11243.	3.3	41
14	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
15	Molecular assembly of two [Co ^{II}] ₄ linear arrays. <i>Chemical Communications</i> , 2011, 47, 707-709.	4.1	35
16	A dissymmetric [Gd ₂] coordination molecular dimer hosting six addressable spin qubits. <i>Communications Chemistry</i> , 2020, 3, .	4.5	30
17	Homoleptic versus Heteroleptic Formation of Mononuclear Fe(II) Complexes with Tris-Imine Ligands. <i>Inorganic Chemistry</i> , 2016, 55, 4110-4116.	4.0	28
18	Highly Cytotoxic Ruthenium(II)-Arene Complexes from Bulky 1-Pyrenylphosphane Ligands. <i>Inorganic Chemistry</i> , 2018, 57, 14786-14797.	4.0	28

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19	A molecular [Mn ₁₄] coordination cluster featuring two slowly relaxing nanomagnets. <i>Chemical Communications</i> , 2012, 48, 1413-1415.	4.1	27
20	A Magneto-optical Molecular Device: Interplay of Spin Crossover, Luminescence, Photomagnetism, and Photochromism. <i>Angewandte Chemie</i> , 2017, 129, 15828-15833.	2.0	25
21	Photoactivation of the Cytotoxic Properties of Platinum(II) Complexes through Ligand Photoswitching. <i>Inorganic Chemistry</i> , 2018, 57, 4009-4022.	4.0	24
22	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
23	The Use of a Bis(phenylpyrazolyl)pyridyl Ligand to Prepare [Mn ₄] and [Mn ₁₀] Cage Complexes. <i>Chemistry - A European Journal</i> , 2011, 17, 4960-4963.	3.3	23
24	Selective Lanthanide Distribution within a Comprehensive Series of Heterometallic [LnPr] Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 8429-8439.	4.0	21
25	Unusual Crystal Packing in a Family of [Fe{2,6-bis(pyrazol-3-yl)pyridine} ₂] ²⁺ Compounds and the Effect on the Occurrence of Spin Crossover and Its Cooperative Character. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 6013-6021.	2.0	20
26	New coordination features; a bridging pyridine and the forced shortest non-covalent distance between two CO ₃ ²⁻ species. <i>Chemical Science</i> , 2015, 6, 123-131.	7.4	20
27	Thermodynamic Stability of Heterodimetallic [LnLn ²] Complexes: Synthesis and DFT Studies. <i>Chemistry - A European Journal</i> , 2017, 23, 5117-5125.	3.3	19
28	Guest-tuned spin crossover in flexible supramolecular assemblies templated by a halide (Cl ⁻ , Br ⁻ or I ⁻). <i>Chemical Communications</i> , 2017, 53, 569-572.	4.1	18
29	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
30	Synthesis and properties of a novel linear [Ni ₄ L ₂ (py) ₆] cluster: Designed ligand-controlled topology of the metals. <i>Comptes Rendus Chimie</i> , 2008, 11, 1117-1120.	0.5	16
31	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
32	Unravelling of a [High Spin ² ↔ Low Spin] ↔ [Low Spin ² ↔ High Spin] Equilibrium in Spin-Crossover Iron(II) Dinuclear Helicates Using Paramagnetic NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, , .	13.8	14
33	Controlled Heterometallic Composition in Linear Trinuclear [LnCeLn] Lanthanide Molecular Assemblies. <i>Chemistry - A European Journal</i> , 2019, 25, 15228-15232.	3.3	13
34	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
35	A Mixed-valence [Mn ^{II} Mn ^{III} Mn ^{II}] 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
36	Non-Switching 1,2-Dithienylethene-based Diplatinum(II) Complex Showing High Cytotoxicity. <i>Inorganic Chemistry</i> , 2016, 55, 5356-5364.	4.0	10

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37	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
38	Elucidating Magnetic Exchange and Anisotropy in Weakly Coupled Mn ^{III} Dimers. <i>Inorganic Chemistry</i> , 2013, 52, 718-723.	4.0	9
39	A new type of paddle-wheel coordination complex. <i>Dalton Transactions</i> , 2013, 42, 12185.	3.3	8
40	Designed asymmetric coordination helicates with bis- β^2 -diketonate ligands. <i>Dalton Transactions</i> , 2019, 48, 16844-16847.	3.3	8
41	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
42	Unravelling of a [High Spin \leftrightarrow Low Spin] \leftrightarrow [Low Spin \leftrightarrow High Spin] Equilibrium in Spin-Crossover Iron(II) Dinuclear Helicates Using Paramagnetic NMR Spectroscopy. <i>Angewandte Chemie</i> , 2022, 134, e202110310.	2.0	6
43	Unparalleled selectivity and electronic structure of heterometallic [LnLn TM Ln] molecules as 3-qubit quantum gates. <i>Chemical Science</i> , 0, , .	7.4	6
44	Molecular [Co(III)Co(II)] Δ -2 assemblies of a new bis-phenol/pyrazolyl ligand. <i>New Journal of Chemistry</i> , 2011, 35, 1202.	2.8	5
45	A Ferric Guest Inside a Spin Crossover Ferrous Helicate. <i>Chemical Communications</i> , 2022, , .	4.1	5
46	A novel bis- β^2 -diketonate ligand stabilizes a [Co(II) ₈] cage that encapsulates a ($\frac{1}{4}$ 3-O) $\bar{\kappa}^{\cdot}$ H $\bar{\kappa}^{\cdot}$ ($\frac{1}{4}$ 3-O) moiety. <i>Polyhedron</i> , 2013, 54, 8-12.	2.2	4
47	Dinuclear Copper(II) Complexes Exhibiting Reversible Photochromism. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 561-567.	2.0	4
48	Access to indolines from primary phenylethylamines by an unexpected palladium-catalyzed C $\bar{\kappa}$ H functionalization process. <i>RSC Advances</i> , 2019, 9, 27176-27182.	3.6	3
49	Molecular self-recognition: a chiral [Mn(II) ₆] wheel via donor $\bar{\kappa}$ acceptor $\bar{\kappa}$ contacts and H-bonds. <i>Chemical Communications</i> , 2015, 51, 4631-4634.	4.1	1
50	Serving science through publishing. , 0, 1, 1.		1
51	Two [Ln ₄] molecular rings folded as compact tetrahedra. <i>Dalton Transactions</i> , 2020, 49, 7182-7188.	3.3	1
52	Reprint of $\bar{\kappa}$ A novel bis- β^2 -diketonate ligand stabilizes a [Co(II) ₈] cage that encapsulates a ($\frac{1}{4}$ 3-O) $\bar{\kappa}^{\cdot}$ H $\bar{\kappa}^{\cdot}$ ($\frac{1}{4}$ 3-O) moiety $\bar{\kappa}$. <i>Polyhedron</i> , 2013, 66, 274-278.	2.2	0