Mathieu RouziÃ¨res

List of Publications by Year
in descending order

84	2,442	218592	233338
papers	citations	26 h-index	45 g-index

88	88	88	3100
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lanthanide-mediated tuning of electronic and magnetic properties in heterotrimetallic cyclooctatetraenyl multidecker self-assemblies. Chemical Science, 2022, 13, 3864-3874.	3.7	7
2	Tetranuclear Crâ€“Ln ferrocenecarboxylate complexes with a defect-dicubane structure: synthesis, magnetism, and thermolysis. Dalton Transactions, 2021, 50, 16990-16999.	1.6	4
3	Reversible Photo- and Thermo-Induced Spin-State Switching in a Heterometallic {5d-3d} W₂Fe₂ Molecular Square Complex. Inorganic Chemistry, 2021, 60, 7545-7552.	1.9	15
4	Thermo- and photoinduced spin state switching in an iron(<scp>ii</scp>) 2D coordination network associated with large light-induced thermal hysteresis and tuning of dimensionalityvialigand modulation. Dalton Transactions, 2021, 50, 7725-7735.	1.6	12
5	A linear metalâ€“metal bonded tri-iron single-molecule magnet. Chemical Communications, 2021, 57, 13357-13360.	2.2	10
6	A One-Dimensional Coordination Polymer Assembled from a Macrocyclic Mn(III) Single-Molecule Magnet and Terephthalate. Crystal Growth and Design, 2020, 20, 1538-1542.	1.4	8
7	Photoinduced Moâ^'CN Bond Breakage in Octacyanomolybdate Leading to Spin Triplet Trapping. Angewandte Chemie, 2020, 132, 3141-3145.	1.6	5
8	Photoinduced Moâ^'CN Bond Breakage in Octacyanomolybdate Leading to Spin Triplet Trapping. Angewandte Chemie - International Edition, 2020, 59, 3117-3121.	7.2	30
9	Asymmetric Dinuclear Lanthanide(III) Complexes from the Use of a Ligand Derived from 2-Acetylpyridine and Picolinoylhydrazide: Synthetic, Structural and Magnetic Studies. Molecules, 2020, 25, 3153.	1.7	8
10	Reversible Spin-State Switching and Tuning of Nuclearity and Dimensionality via Nonlinear Pseudohalides in Cobalt(II) Complexes. Inorganic Chemistry, 2020, 59, 17638-17649.	1.9	17
11	Metal-organic magnets with large coercivity and ordering temperatures up to 242Â°C. Science, 2020, 370, 587-592.	6.0	91
12	ON/OFF Photoswitching and Thermoinduced Spin Crossover with Cooperative Luminescence in a 2D Iron(II) Coordination Polymer. Inorganic Chemistry, 2020, 59, 13009-13013.	1.9	37
13	Two-Step Thermoinduced Metal-to-Metal Electron Transfer and ON/OFF Photoswitching in a Molecular [Fe₂Co₂] Square Complex. Inorganic Chemistry, 2020, 59, 11879-11888.	1.9	36
14	Effect of Coordination Geometry on Magnetic Properties in a Series of Cobalt(II) Complexes and Structural Transformation in Mother Liquor. Inorganic Chemistry, 2020, 59, 7067-7081.	1.9	27
15	A heteroleptic diradical Cr(<scp>iii</scp>) complex with extended spin delocalization and large intramolecular magnetic exchange. Chemical Communications, 2020, 56, 4906-4909.	2.2	5
16	Thermal and Lightâ€Activated Spin Crossover in Iron(III) qnal Complexes. European Journal of Inorganic Chemistry, 2020, 2020, 1325-1330.	1.0	8
17	Controlling the nuclearity and topology of cobalt complexes through hydration at the ppm level. Journal of Materials Chemistry C, 2020, 8, 4401-4407.	2.7	2
18	Slow Dynamics of the Spinâ€Crossover Process in an Apparent Highâ€Spin Mononuclear Fe II Complex. Angewandte Chemie, 2019, 131, 19064-19067.	1.6	4

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19	Slow Dynamics of the Spinâ€Crossover Process in an Apparent Highâ€Spin Mononuclear Fe^{II} Complex. Angewandte Chemie - International Edition, 2019, 58, 18888-18891.	7.2	32
20	Magnetization Slow Dynamics in Ferrocenium Complexes. Chemistry - A European Journal, 2019, 25, 10625-10632.	1.7	20
21	Solvent Dependent Spinâ€Crossover and Photomagnetic Properties in an Imidazolylimine Fe^{II} Complex. Chemistry - an Asian Journal, 2019, 14, 2225-2229.	1.7	7
22	Using Redox-Active Ï€ Bridging Ligand as a Control Switch of Intramolecular Magnetic Interactions. Journal of the American Chemical Society, 2019, 141, 7721-7725.	6.6	24
23	Persistent Solidâ€State Phosphorescence and Delayed Fluorescence at Room Temperature by a Twisted Hydrocarbon. Angewandte Chemie, 2019, 131, 7056-7060.	1.6	22
24	Persistent Solidâ€State Phosphorescence and Delayed Fluorescence at Room Temperature by a Twisted Hydrocarbon. Angewandte Chemie - International Edition, 2019, 58, 6982-6986.	7.2	77
25	Slow magnetization dynamics in a six-coordinate Fe(ii)â€“radical complex. Dalton Transactions, 2019, 48, 4514-4519.	1.6	6
26	Discrete versus Chain Assembly: Hexacyanometallate Linkers and Macrocyclic {3dâ€“4f} Single-Molecule Magnet Building Blocks. Inorganic Chemistry, 2019, 58, 5543-5554.	1.9	19
27	Atomic Scale Evidence of the Switching Mechanism in a Photomagnetic CoFe Dinuclear Prussian Blue Analogue. Journal of the American Chemical Society, 2019, 141, 3470-3479.	6.6	43
28	Enantiopure versus Racemic Mixture in Reversible, Twoâ€Step, Singleâ€Crystalâ€toâ€Singleâ€Crystal Transformations of Copper(II) Complexes. Chemistry - A European Journal, 2018, 24, 8569-8576.	1.7	16
29	A Redoxâ€Active Bridging Ligand to Promote Spin Delocalization, Highâ€Spin Complexes, and Magnetic Multiâ€Switchability. Angewandte Chemie, 2018, 130, 7967-7971.	1.6	4
30	A Redoxâ€Active Bridging Ligand to Promote Spin Delocalization, Highâ€Spin Complexes, and Magnetic Multiâ€Switchability. Angewandte Chemie - International Edition, 2018, 57, 7841-7845.	7.2	50
31	Rational Selfâ€Assembly of Tricobalt Extended Metal Atom Chains and [MF₆]^{2â€“} Building Blocks into Oneâ€Dimensional Coordination Polymers. European Journal of Inorganic Chemistry, 2018, 2018, 320-325.	1.0	11
32	Multistability at Room Temperature in a Bent-Shaped Spin-Crossover Complex Decorated with Long Alkyl Chains. Journal of the American Chemical Society, 2018, 140, 98-101.	6.6	67
33	Temperature dependence of the spin state and geometry in tricobalt paddlewheel complexes with halide axial ligands. Dalton Transactions, 2018, 47, 16798-16806.	1.6	2
34	Slow magnetization dynamics in Co(ii)/Co(iii) triethanolamine/pivalate complexes. Dalton Transactions, 2018, 47, 17055-17066.	1.6	8
35	Magnetic Bistability in Crystalline Organic Radicals: The Interplay of H-bonding, Pancake Bonding, and Electrostatics in 4-(2â€²-Benzimidazolyl)-1,2,3,5-dithiadiazolyl. Journal of the American Chemical Society, 2018, 140, 16904-16908.	6.6	42
36	A Co(II)-Hydrazone Schiff Base Single Ion Magnet Exhibiting Field Induced Slow Relaxation Dynamics. Magnetochemistry, 2018, 4, 56.	1.0	4

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37	Formation of the layered conductive magnet CrCl2(pyrazine)2 through redox-active coordination chemistry. Nature Chemistry, 2018, 10, 1056-1061.	6.6	108
38	Molecule-based microelectromechanical sensors. Scientific Reports, 2018, 8, 8016.	1.6	31
39	Varied spin crossover behaviour in a family of dinuclear Fe(<scp>ii</scp>) triple helicate complexes. Dalton Transactions, 2018, 47, 7965-7974.	1.6	11
40	Cr(pyrazine)2(OSO2CH3)2: A two-dimensional coordination polymer with an antiferromagnetic ground state. Polyhedron, 2018, 153, 248-253.	1.0	13
41	[Ln₁₆] complexes (Ln = Gd^{III}, Dy^{III}): molecular analogues of natural minerals such as hydrotalcite. Dalton Transactions, 2018, 47, 12847-12851.	1.6	10
42	Spin State Chemistry: Modulation of Ligand pK_a by Spin State Switching in a [2Ã—2] Iron(II) Grid-Type Complex. Journal of the American Chemical Society, 2018, 140, 8218-8227.	6.6	63
43	Enantiopure versus Racemic Mixture in Reversible, Two-Step, Single-Crystal-to-Single-Crystal Transformations of Copper(II) Complexes. Chemistry - A European Journal, 2018, 24, 8457-8457.	1.7	0
44	Spin-state modulation of molecular Fe^{III} complexes via inclusion in halogen-bonded supramolecular networks. Chemical Communications, 2017, 53, 4989-4992.	2.2	22
45	Direct crystallographic evidence of the reversible photo-formation and thermo-rupture of a coordination bond inducing spin-crossover phenomenon. Chemical Communications, 2017, 53, 11588-11591.	2.2	18
46	Photoinduced reversible spin-state switching of an FeIII complex assisted by a halogen-bonded supramolecular network. Chemical Communications, 2017, 53, 10283-10286.	2.2	25
47	Coexistence of long-range antiferromagnetic order and slow relaxation of the magnetization in the first lanthanide complex of a 1,2,4-benzotriazinyl radical. Dalton Transactions, 2017, 46, 12790-12793.	1.6	23
48	Mononuclear Fe(II) Complexes Based on the Methylpyrazinyl-Diamine Ligand: Chemical-, Thermo- and Photocontrol of Their Magnetic Switchability. Inorganic Chemistry, 2017, 56, 12148-12157.	1.9	16
49	Heterometallic Heptanuclear [Cu₅Ln₂] (Ln = Tb, Dy, and Ho) Single-Molecule Magnets Organized in One-Dimensional Coordination Polymeric Network. Inorganic Chemistry, 2017, 56, 14612-14623.	1.9	30
50	An Experimental and Theoretical Investigation on Pentacoordinated Cobalt(III) Complexes with an Intermediate S= 1 Spin State: How Halide Ligands Affect their Magnetic Anisotropy. Chemistry - A European Journal, 2016, 22, 825-825.	1.7	2
51	Macrocyclic {3dâ€“4f} SMMs as building blocks for 1D-polymers: selective bridging of 4f ions by use of an O-donor ligand. Dalton Transactions, 2016, 45, 18089-18093.	1.6	22
52	A low spin manganese(<scp>iv</scp>) nitride single molecule magnet. Chemical Science, 2016, 7, 6132-6140.	3.7	112
53	An Experimental and Theoretical Investigation on Pentacoordinated Cobalt(III) Complexes with an Intermediate S=1 Spin State: How Halide Ligands Affect their Magnetic Anisotropy. Chemistry - A European Journal, 2016, 22, 925-933.	1.7	21
54	Ferromagnetic ordering of â€“[Sm(<scp>iii</scp>)-radical]_nâ€“ coordination polymers. Chemical Communications, 2016, 52, 5414-5417.	2.2	19

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55	Synthesis, structure, and physical properties of new rare earth ferrocenoylacetonates. Dalton Transactions, 2016, 45, 6405-6417.	1.6	26
56	Effect of the Metal on Disulfide/Thiolate Interconversion: Manganese versus Cobalt. Chemistry - A European Journal, 2015, 21, 18770-18778.	1.7	18
57	Coordination Complexes of a Neutral 1,2,4â€Benzotriazinyl Radical Ligand: Synthesis, Molecular and Electronic Structures, and Magnetic Properties. Chemistry - A European Journal, 2015, 21, 15843-15853.	1.7	38
58	Lanthanide Complexes with Multidentate Oxime Ligands as Singleâ€Molecule Magnets and Atmospheric Carbon Dioxide Fixation Systems. Chemistry - A European Journal, 2015, 21, 13321-13329.	1.7	20
59	Radicalâ€“Radical Recognition: Switchable Magnetic Properties and Re-entrant Behavior. Chemistry of Materials, 2015, 27, 4023-4032.	3.2	28
60	Dioxygen Activation and Catalytic Reduction to Hydrogen Peroxide by a Thiolate-Bridged Dimanganese(II) Complex with a Pendant Thiol. Journal of the American Chemical Society, 2015, 137, 8644-8653.	6.6	56
61	A novel 2-D coordination polymer with mixed azido and alkoxido bridges: Synthesis, structure and magnetic properties. Polyhedron, 2015, 92, 111-116.	1.0	5
62	Novel Cu^{II}â€“M^{II}â€“Cu^{II}(M = Cu or Ni) trinuclear and [NaI2CuII6] hexanuclear complexes assembled by bi-compartmental ligands: syntheses, structures, magnetic and catalytic studies. Dalton Transactions, 2015, 44, 9426-9438.	1.6	11
63	One-dimensional coordination polymers of [Co₃(dpa)₄]²⁺ and [MF₆]^{2â^'} (M = Re^{IV}, Zr^{IV} and Sn^{IV}). Chemical Communications, 2015, 51, 17748-17751.	2.2	9
64	Partial Nitrogen Atom Transfer: A New Synthetic Tool to Design Single-Molecule Magnets. Inorganic Chemistry, 2015, 54, 9075-9080.	1.9	20
65	A family of fourteen soluble stable macrocyclic [NiII3Ln^{III}] heterometallic 3dâ€“4f complexes. Inorganic Chemistry Frontiers, 2015, 2, 982-990.	3.0	25
66	Cyanomethylene-bis(phosphonate)-Based Lanthanide Complexes: Structural, Photophysical, and Magnetic Investigations. Inorganic Chemistry, 2014, 53, 2708-2717.	1.9	29
67	A Single-Chain Magnet Based on {Co^{II}₄} Complexes and Azido/Picolinate Ligands. Inorganic Chemistry, 2014, 53, 7870-7875.	1.9	23
68	Oxalato-Bridged Neutral Octanuclear Heterometallic Complexes [Ln₄K₄(L)₄(Î¼-H₂O)₄(NO₃)₂(Î¼-Ox)] (Ln = Dy(III), Gd(III), Tb(III), Ho(III); LH₃ =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (N[CH₂CH₂/su	1.4	13
69	Properties. Crystal Growth and Design, 2014, 14, 4583-4592. Exploring the coordination chemistry of bifunctional organoarsonate ligands: syntheses and characterisation of coordination polymers that contain 4-(1,2,4-triazol-4-yl)phenylarsonic acid. CrystEngComm, 2014, 16, 7894-7905.	1.3	9
70	A Bioâ€Inspired Switch Based on Cobalt(II) Disulfide/Cobalt(III) Thiolate Interconversion. Angewandte Chemie - International Edition, 2014, 53, 5318-5321.	7.2	34
71	Dinuclear Cu^{II}â€“Cu^{II} and Cu^Iâ€“Cu^{II} Complexes of a Compartmental Ligand â€“ Syntheses, Structures, Magnetic, and Catalytic Studies. European Journal of Inorganic Chemistry, 2013, 2013, 4922-4930.	1.0	9
72	A polyoxometalate-based single-molecule magnet with a mixed-valent {MnIV2MnIII6MnII4} core. Chemical Communications, 2013, 49, 2515.	2.2	80

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73	A facile â€œbottom-upâ€•approach to prepare free-standing nano-films based on manganese coordination clusters. Chemical Communications, 2013, 49, 7400.	2.2	10
74	High-Spin Ribbons and Antiferromagnetic Ordering of a Mn^{II}-Biradical-Mn^{II} Complex. Journal of the American Chemical Society, 2013, 135, 13298-13301.	6.6	25
75	Tristability in a Light-Actuated Single-Molecule Magnet. Journal of the American Chemical Society, 2013, 135, 15880-15884.	6.6	178
76	From a mononuclear NiII precursor to antiferromagnetically coupled trinuclear double-stranded helicates. Dalton Transactions, 2013, 42, 16470.	1.6	11
77	Syntheses, Structures, and Magnetic Properties of a Family of Heterometallic Heptanuclear [Cu₅Ln₂] (Ln = Y(III), Lu(III), Dy(III), Ho(III), Er(III), and Yb(III)) Complexes: Observation of SMM behavior for the Dy(III) and Ho(III) Analogues. Inorganic Chemistry, 2013, 52, 2588-2598.	1.9	96
78	Fine-Tuning the Single-Molecule Magnet Properties of a [Dy(III)-Radical]₂ Pair. Journal of the American Chemical Society, 2013, 135, 9596-9599.	6.6	111
79	Ferromagnetic superexchange in a 1D â€“[LaIIIâ€“radical]â€“ coordination polymer. Chemical Communications, 2013, 49, 6271.	2.2	10
80	Structure and Properties of New Mixed-Valent [Mn^{III}₂Mn^{IV}₃Ln^{III}₅O₅] Complexes (Ln^{III} = Tm^{III}, Lu^{III}, and Yb^{III}). Inorganic Chemistry, 2012, 51, 3929-3931.	1.9	19
81	The AILES beamline for THz and IR spectroscopy. , 2010, , .		0
82	Performance of the AILES THz-Infrared beamline at SOLEIL for High resolution spectroscopy. AIP Conference Proceedings, 2010, , .	0.3	70
83	The AILES beamline for THz and IR spectroscopy. , 2009, , .		3
84	The AILES Infrared Beamline on the third generation Synchrotron Radiation Facility SOLEIL. Infrared Physics and Technology, 2006, 49, 139-146.	1.3	120