

Mathieu Rouzières

List of Publications by Year in descending order

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84
papers

2,442
citations

218592

26
h-index

233338

45
g-index

88
all docs

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docs citations

88
times ranked

3100
citing authors

#	ARTICLE	IF	CITATIONS
1	Tristability in a Light-Actuated Single-Molecule Magnet. <i>Journal of the American Chemical Society</i> , 2013, 135, 15880-15884.	6.6	178
2	The AILES Infrared Beamline on the third generation Synchrotron Radiation Facility SOLEIL. <i>Infrared Physics and Technology</i> , 2006, 49, 139-146.	1.3	120
3	A low spin manganese(IV) nitride single molecule magnet. <i>Chemical Science</i> , 2016, 7, 6132-6140.	3.7	112
4	Fine-Tuning the Single-Molecule Magnet Properties of a [Dy(III)-Radical] ₂ Pair. <i>Journal of the American Chemical Society</i> , 2013, 135, 9596-9599.	6.6	111
5	Formation of the layered conductive magnet CrCl ₂ (pyrazine) ₂ through redox-active coordination chemistry. <i>Nature Chemistry</i> , 2018, 10, 1056-1061.	6.6	108
6	Syntheses, Structures, and Magnetic Properties of a Family of Heterometallic Heptanuclear [Cu ₅ Ln ₂] (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. <i>Inorganic Chemistry</i> , 2013, 52, 2588-2598.	1.9	96
7	Metal-organic magnets with large coercivity and ordering temperatures up to 242 Å°C. <i>Science</i> , 2020, 370, 587-592.	6.0	91
8	A polyoxometalate-based single-molecule magnet with a mixed-valent {MnIV ₂ MnIII ₆ MnII ₄ } core. <i>Chemical Communications</i> , 2013, 49, 2515.	2.2	80
9	Persistent Solid-State Phosphorescence and Delayed Fluorescence at Room Temperature by a Twisted Hydrocarbon. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6982-6986.	7.2	77
10	Performance of the AILES THz-Infrared beamline at SOLEIL for High resolution spectroscopy. <i>AIP Conference Proceedings</i> , 2010, .	0.3	70
11	Multistability at Room Temperature in a Bent-Shaped Spin-Crossover Complex Decorated with Long Alkyl Chains. <i>Journal of the American Chemical Society</i> , 2018, 140, 98-101.	6.6	67
12	Spin State Chemistry: Modulation of Ligand p <i>K_a</i> by Spin State Switching in a [2Å–2] Iron(II) Grid-Type Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 8218-8227.	6.6	63
13	Dioxygen Activation and Catalytic Reduction to Hydrogen Peroxide by a Thiolate-Bridged Dimanganese(II) Complex with a Pendant Thiol. <i>Journal of the American Chemical Society</i> , 2015, 137, 8644-8653.	6.6	56
14	A Redox-Active Bridging Ligand to Promote Spin Delocalization, High-Spin Complexes, and Magnetic Multi-Switchability. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7841-7845.	7.2	50
15	Atomic Scale Evidence of the Switching Mechanism in a Photomagnetic CoFe Dinuclear Prussian Blue Analogue. <i>Journal of the American Chemical Society</i> , 2019, 141, 3470-3479.	6.6	43
16	Magnetic Bistability in Crystalline Organic Radicals: The Interplay of H-bonding, Pancake Bonding, and Electrostatics in 4-(2- ² -Benzimidazolyl)-1,2,3,5-dithiadiazolyl. <i>Journal of the American Chemical Society</i> , 2018, 140, 16904-16908.	6.6	42
17	Coordination Complexes of a Neutral 1,2,4-Benzotriazinyl Radical Ligand: Synthesis, Molecular and Electronic Structures, and Magnetic Properties. <i>Chemistry - A European Journal</i> , 2015, 21, 15843-15853.	1.7	38
18	ON/OFF Photoswitching and Thermoinduced Spin Crossover with Cooperative Luminescence in a 2D Iron(II) Coordination Polymer. <i>Inorganic Chemistry</i> , 2020, 59, 13009-13013.	1.9	37

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19	Two-Step Thermoinduced Metal-to-Metal Electron Transfer and ON/OFF Photoswitching in a Molecular $[\text{Fe}_2\text{Co}_2]$ Square Complex. <i>Inorganic Chemistry</i> , 2020, 59, 11879-11888.	1.9	36
20	A Bio-Inspired Switch Based on Cobalt(II) Disulfide/Cobalt(III) Thiolate Interconversion. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5318-5321.	7.2	34
21	Slow Dynamics of the Spin-Crossover Process in an Apparent High-Spin Mononuclear Fe^{II} Complex. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18888-18891.	7.2	32
22	Molecule-based microelectromechanical sensors. <i>Scientific Reports</i> , 2018, 8, 8016.	1.6	31
23	Heterometallic Heptanuclear $[\text{Cu}_5\text{Ln}_2]$ ($\text{Ln} = \text{Tb}, \text{Dy}, \text{and Ho}$) Single-Molecule Magnets Organized in One-Dimensional Coordination Polymeric Network. <i>Inorganic Chemistry</i> , 2017, 56, 14612-14623.	1.9	30
24	Photoinduced $\text{Mo}^{\sim}\text{CN}$ Bond Breakage in Octacyanomolybdate Leading to Spin Triplet Trapping. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3117-3121.	7.2	30
25	Cyanomethylene-bis(phosphonate)-Based Lanthanide Complexes: Structural, Photophysical, and Magnetic Investigations. <i>Inorganic Chemistry</i> , 2014, 53, 2708-2717.	1.9	29
26	Radical-Radical Recognition: Switchable Magnetic Properties and Re-entrant Behavior. <i>Chemistry of Materials</i> , 2015, 27, 4023-4032.	3.2	28
27	Effect of Coordination Geometry on Magnetic Properties in a Series of Cobalt(II) Complexes and Structural Transformation in Mother Liquor. <i>Inorganic Chemistry</i> , 2020, 59, 7067-7081.	1.9	27
28	Synthesis, structure, and physical properties of new rare earth ferrocenylacetates. <i>Dalton Transactions</i> , 2016, 45, 6405-6417.	1.6	26
29	High-Spin Ribbons and Antiferromagnetic Ordering of a Mn^{II} -Biradical- Mn^{II} Complex. <i>Journal of the American Chemical Society</i> , 2013, 135, 13298-13301.	6.6	25
30	A family of fourteen soluble stable macrocyclic $[\text{NiII}3\text{Ln}^{\text{III}}]$ heterometallic $3d^64f$ complexes. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 982-990.	3.0	25
31	Photoinduced reversible spin-state switching of an Fe^{III} complex assisted by a halogen-bonded supramolecular network. <i>Chemical Communications</i> , 2017, 53, 10283-10286.	2.2	25
32	Using Redox-Active π -Bridging Ligand as a Control Switch of Intramolecular Magnetic Interactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 7721-7725.	6.6	24
33	A Single-Chain Magnet Based on $\{\text{Co}^{\text{II}}\}_4$ Complexes and Azido/Picolinate Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 7870-7875.	1.9	23
34	Coexistence of long-range antiferromagnetic order and slow relaxation of the magnetization in the first lanthanide complex of a 1,2,4-benzotriazinyl radical. <i>Dalton Transactions</i> , 2017, 46, 12790-12793.	1.6	23
35	Macrocyclic $\{3d^64f\}$ SMMs as building blocks for 1D-polymers: selective bridging of 4f ions by use of an O-donor ligand. <i>Dalton Transactions</i> , 2016, 45, 18089-18093.	1.6	22
36	Spin-state modulation of molecular Fe^{III} complexes via inclusion in halogen-bonded supramolecular networks. <i>Chemical Communications</i> , 2017, 53, 4989-4992.	2.2	22

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55	Novel Cu ^{II} –M ^{II} –Cu ^{II} (M = Cu or Ni) trinuclear and [Ni ₂ Cu ₆] hexanuclear complexes assembled by bi-compartmental ligands: syntheses, structures, magnetic and catalytic studies. Dalton Transactions, 2015, 44, 9426-9438.	1.6	11
56	Rational Self-Assembly of Tricobalt Extended Metal Atom Chains and [MF ₆] ²⁻ Building Blocks into One-Dimensional Coordination Polymers. European Journal of Inorganic Chemistry, 2018, 2018, 320-325.	1.0	11
57	Varied spin crossover behaviour in a family of dinuclear Fe(ⁱⁱ) triple helicate complexes. Dalton Transactions, 2018, 47, 7965-7974.	1.6	11
58	A facile “bottom-up” approach to prepare free-standing nano-films based on manganese coordination clusters. Chemical Communications, 2013, 49, 7400.	2.2	10
59	Ferromagnetic superexchange in a 1D [Lall [•]] coordination polymer. Chemical Communications, 2013, 49, 6271.	2.2	10
60	[Ln ₁₆] complexes (Ln = Gd ^{III} , Dy ^{III}): molecular analogues of natural minerals such as hydrotalcite. Dalton Transactions, 2018, 47, 12847-12851.	1.6	10
61	A linear metal–metal bonded tri-iron single-molecule magnet. Chemical Communications, 2021, 57, 13357-13360.	2.2	10
62	Dinuclear Cu ^{II} –Cu ^{II} and Cu ^I –Cu ^{II} Complexes of a Compartmental Ligand – Syntheses, Structures, Magnetic, and Catalytic Studies. European Journal of Inorganic Chemistry, 2013, 2013, 4922-4930.	1.0	9
63	Exploring the coordination chemistry of bifunctional organoarsenate 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
64	One-dimensional coordination polymers of [Co ₃ (dpa) ₄] ²⁺ and [MF ₆] ²⁻ (M = Re ^{IV} , Zr ^{IV} and Sn ^{IV}). Chemical Communications, 2015, 51, 17748-17751.	2.2	9
65	Slow magnetization dynamics in Co(ii)/Co(iii) triethanolamine/pivalate complexes. Dalton Transactions, 2018, 47, 17055-17066.	1.6	8
66	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
67	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
68	Thermal and Light-Activated Spin Crossover in Iron(III) qnal Complexes. European Journal of Inorganic Chemistry, 2020, 2020, 1325-1330.	1.0	8
69	Solvent Dependent Spin-Crossover and Photomagnetic Properties in an Imidazolylimine Fe ^{II} Complex. Chemistry - an Asian Journal, 2019, 14, 2225-2229.	1.7	7
70	Lanthanide-mediated tuning of electronic and magnetic properties in heterotrimetallic cyclooctatetraenyl multidecker self-assemblies. Chemical Science, 2022, 13, 3864-3874.	3.7	7
71	Slow magnetization dynamics in a six-coordinate Fe(ii)–radical complex. Dalton Transactions, 2019, 48, 4514-4519.	1.6	6
72	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

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73	Photoinduced Mo ^{VI} -CN Bond Breakage in Octacyanomolybdate Leading to Spin Triplet Trapping. <i>Angewandte Chemie</i> , 2020, 132, 3141-3145.	1.6	5
74	A heteroleptic diradical Cr(III) complex with extended spin delocalization and large intramolecular magnetic exchange. <i>Chemical Communications</i> , 2020, 56, 4906-4909.	2.2	5
75	A Redox-Active Bridging Ligand to Promote Spin Delocalization, High-Spin Complexes, and Magnetic Multi-Switchability. <i>Angewandte Chemie</i> , 2018, 130, 7967-7971.	1.6	4
76	A Co(II)-Hydrazone Schiff Base Single Ion Magnet Exhibiting Field Induced Slow Relaxation Dynamics. <i>Magnetochemistry</i> , 2018, 4, 56.	1.0	4
77	Slow Dynamics of the Spin-Crossover Process in an Apparent High-Spin Mononuclear Fe II Complex. <i>Angewandte Chemie</i> , 2019, 131, 19064-19067.	1.6	4
78	Tetranuclear Cr ^{III} -Ln ferrocenecarboxylate complexes with a defect-dicubane structure: synthesis, magnetism, and thermolysis. <i>Dalton Transactions</i> , 2021, 50, 16990-16999.	1.6	4
79	The AILES beamline for THz and IR spectroscopy. , 2009, , .		3
80	An Experimental and Theoretical Investigation on Pentacoordinated Cobalt(III) Complexes with an Intermediate S= 1 Spin State: How Halide Ligands Affect their Magnetic Anisotropy. <i>Chemistry - A European Journal</i> , 2016, 22, 825-825.	1.7	2
81	Temperature dependence of the spin state and geometry in tricobalt paddlewheel complexes with halide axial ligands. <i>Dalton Transactions</i> , 2018, 47, 16798-16806.	1.6	2
82	Controlling the nuclearity and topology of cobalt complexes through hydration at the ppm level. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4401-4407.	2.7	2
83	The AILES beamline for THz and IR spectroscopy. , 2010, , .		0
84	Enantiopure versus Racemic Mixture in Reversible, Two-Step, Single-Crystal-to-Single-Crystal Transformations of Copper(II) Complexes. <i>Chemistry - A European Journal</i> , 2018, 24, 8457-8457.	1.7	0