Romain Gautier

List of Publications by Year
in descending order

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68 papers	2,199 citations	331259 21 h-index	223531 46 g-index
77 all docs	77 docs citations	77 times ranked	2996 citing authors

#	Article	IF	Citations
1	Tuning the emission color and temperature range of dual-mode luminescent thermometer by dopant valence states control. Applied Materials Today, 2022, 26, 101349.	2.3	0
2	Synthesis, crystal structure and electrochemical properties of a new methylammonium sodium decavanate salt Na3(CH3NH3)3[V10O28].(CH3NH2).14H2O. Journal of Molecular Structure, 2022, 1254, 132321.	1.8	1
3	Templating effect of trans-2,5-dimethylpiperazine (TDMP) on the structural dimensionality of hybrid metal halides. Dalton Transactions, 2022, 51, 10758-10762.	1.6	2
4	Two Distinct Cu(II)â€“V(IV) Superexchange Interactions with Similar Bond Angles in a Triangular â€œCuV₂â€•Fragment. Inorganic Chemistry, 2022, 61, 10234-10241.	1.9	3
5	Tuning the Oxidation States of Dopants: A Strategy for the Modulation of Material Photoluminescence Properties. Chemistry - A European Journal, 2021, 27, 905-914.	1.7	6
6	Machine Learning Guided Design of Singleâ€“Phase Hybrid Lead Halide White Phosphors. Advanced Science, 2021, 8, e2101407.	5.6	14
7	Machine learning identification of experimental conditions for the synthesis of single-phase white phosphors. Matter, 2021, 4, 3967-3976.	5.0	3
8	Doped Lead Halide White Phosphors for Very High Efficiency and Ultraâ€High Color Rendering. Angewandte Chemie, 2020, 132, 2824-2829.	1.6	19
9	Doped Lead Halide White Phosphors for Very High Efficiency and Ultraâ€High Color Rendering. Angewandte Chemie - International Edition, 2020, 59, 2802-2807.	7.2	98
10	Reply to Comment on â€œOxygen-Vacancy-Induced Midgap States Responsible for the Fluorescence and the Long-Lasting Phosphorescence of the Inverse Spinel Mg(Mg,Sn)O₄â€• Chemistry of Materials, 2020, 32, 7568-7568.	3.2	0
11	Role of specific distorted metal complexes in exciton self-trapping for hybrid metal halides. Chemical Communications, 2020, 56, 10139-10142.	2.2	7
12	Role of the organic counterions on the protonation of Strandberg-type phosphomolybdates. Polyhedron, 2020, 191, 114795.	1.0	2
13	The crucial impact of cerium reduction on photoluminescence. Applied Materials Today, 2020, 20, 100643.	2.3	5
14	Hydrogen Bonding and Broad-Band Emission in Hybrid Zinc Halide Phosphors. Inorganic Chemistry, 2020, 59, 2626-2630.	1.9	14
15	Tuning the oxidation states of dopants in Li2SrSiO4:Eu,Ce and control of the photoemission color. Journal of Solid State Chemistry, 2020, 288, 121367.	1.4	6
16	Exciton Self-Trapping in Hybrid Lead Halides: Role of Halogen. Journal of the American Chemical Society, 2019, 141, 12619-12623.	6.6	126
17	Cocrystallization through the use of a salt: The case of thiourea with a new propanediammonium oxalate salt. Journal of Crystal Growth, 2019, 528, 125267.	0.7	1
18	Patterning of silver on the micro- and nano-scale by local oxidation using air plasma. Nano Structures Nano Objects, 2019, 19, 100320.	1.9	4

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19	Chemical Transformation of Lead Halide Perovskite into Insoluble, Less Cytotoxic, and Brightly Luminescent CsPbBr₃/CsPb₂Br₅ Composite Nanocrystals for Cell Imaging. ACS Applied Materials & Interfaces, 2019, 11, 24241-24246.	4.0	81
20	One pot-synthesis of the fourth category of dinuclear molybdenum(VI) oxalate series: Structure and study of thermal and redox properties. Inorganica Chimica Acta, 2019, 491, 84-92.	1.2	5
21	Lead Halide Postâ€Perovskiteâ€Type Chains for Highâ€Efficiency Whiteâ€Light Emission. Advanced Materials, 2019, 31, e1807383.	11.1	147
22	Screening Approach for the Discovery of New Hybrid Perovskites with Efficient Photoemission. Advanced Functional Materials, 2019, 29, 1806728.	7.8	26
23	Li substituent tuning of LED phosphors with enhanced efficiency, tunable photoluminescence, and improved thermal stability. Science Advances, 2019, 5, eaav0363.	4.7	153
24	Cyclohexylammonium sulfanilate: A simple representative of the chiral materials containing only achiral building units. Materials Letters, 2019, 241, 6-9.	1.3	7
25	Pillared sulfonate-based metal-organic framework as negative electrode for Li-ion batteries. Materials Letters, 2019, 236, 73-76.	1.3	8
26	CsCu₅Se₃: A Copper-Rich Ternary Chalcogenide Semiconductor with Nearly Direct Band Gap for Photovoltaic Application. Chemistry of Materials, 2018, 30, 1121-1126.	3.2	30
27	Structural and Spectroscopic Investigations of Two [Cu4X6]2â€“ (X = Clâ€“, Brâ€“) Clusters: A Joint Theoretical and Experimental Work. Journal of Physical Chemistry A, 2018, 122, 4628-4634.	1.1	2
28	Structural Confinement toward Giant Enhancement of Red Emission in Mn²⁺â€Based Phosphors. Advanced Functional Materials, 2018, 28, 1804150.	7.8	122
29	Crystal structure of (Î¼-trans-1,2-bis{2-[(2-oxidophenyl)methylidene]hydrazin-1-ylidene}ethane-1,2-diolato-Îº³) Tj ETQq1 1 0.784314 g Crystallographic Communications, 2018, 74, 799-802.	0.2	1
30	Two-Step Design of a Single-Doped White Phosphor with High Color Rendering. Journal of the American Chemical Society, 2017, 139, 1436-1439.	6.6	121
31	Oxygen-Vacancy-Induced Midgap States Responsible for the Fluorescence and the Long-Lasting Phosphorescence of the Inverse Spinel Mg(Mg,Sn)O₄. Chemistry of Materials, 2017, 29, 1069-1075.	3.2	36
32	Fineâ€Tuning the Properties of Doped Multifunctional Materials by Controlled Reduction of Dopants. Chemistry - A European Journal, 2017, 23, 2998-3001.	1.7	6
33	Stabilization of Îº-octamolybdate with large counterions. Journal of Molecular Structure, 2017, 1141, 698-702.	1.8	3
34	Thermochromic Luminescent Materials and Multi-Emission Bands in d10 Clusters. Scientific Reports, 2017, 7, 45537.	1.6	15
35	A p-Type Zinc-Based Metalâ€“Organic Framework. Inorganic Chemistry, 2017, 56, 6208-6213.	1.9	9
36	Tuning the Crystal Structure Dimensionality of Cobalt(II)/1,2,4-Triazole Complexes. Crystal Growth and Design, 2017, 17, 864-869.	1.4	14

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37	Kirkendall Effect vs Corrosion of Silver Nanocrystals by Atomic Oxygen: From Solid Metal Silver to Nanoporous Silver Oxide. Journal of Physical Chemistry C, 2017, 121, 19497-19504.	1.5	22
38	Packing of Helices: Is Chirality the Highest Crystallographic Symmetry?. Crystals, 2016, 6, 106.	1.0	8
39	Optical activity from racemates. Nature Materials, 2016, 15, 591-592.	13.3	35
40	Direct nanopatterning of polymer/silver nanoblocks under low energy electron beam irradiation. Nanoscale, 2016, 8, 17108-17112.	2.8	3
41	Redox and phase behavior of Pd-substituted (La,Sr)CrO3 perovskite solid oxide fuel cell anodes. Solid State Ionics, 2016, 296, 90-105.	1.3	26
42	Synthesis and Photoluminescence Properties of Ca₂Ga₂SiO₇:Eu³⁺ Red Phosphors with an Intense ⁵D₀ â† ⁷F₄ Transition. Inorganic Chemistry, 2016, 55, 9144-9146.	1.9	65
43	Modulation of Defects in Semiconductors by Facile and Controllable Reduction: The Case of p-type CuCrO₂ Nanoparticles. Inorganic Chemistry, 2016, 55, 7729-7733.	1.9	20
44	A Chemical Route Towards Singleâ€Phase Materials with Controllable Photoluminescence. Angewandte Chemie - International Edition, 2015, 54, 11501-11503.	7.2	25
45	Hydrothermal Synthesis of Two Cuprous Bromide Compounds Using Zinc Metal as Reductant. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 744-748.	0.6	1
46	On the Origin of the Differences in Structure Directing Properties of Polar Metal Oxyfluoride [MO_xF_{6â€“x}]^{2â€“} (x = 1, 2) Building Units. Inorganic Chemistry, 2015, 54, 1712-1719.	1.9	44
47	Analysis and Prediction of Stacking Sequences in Intercalated Lamellar Vanadium Phosphates. European Journal of Inorganic Chemistry, 2015, 2015, 1941-1945.	1.0	1
48	Prediction and accelerated laboratory discovery of previously unknown 18-electron ABX compounds. Nature Chemistry, 2015, 7, 308-316.	6.6	349
49	Syntheses of Two Vanadium Oxideâ€“Fluoride Materials That Differ in Phase Matchability. Inorganic Chemistry, 2015, 54, 765-772.	1.9	40
50	Influence of the cation size on the second harmonic generation response of chiral A(VO2)2(PO4)Â·3H2O (A = K+, NH4+ and Rb+). CrystEngComm, 2014, 16, 10902-10906.	1.3	2
51	From Solution to the Solid State: Control of Niobium Oxideâ€“Fluoride [NbO_xF_y]^{nâ^’} Species. Inorganic Chemistry, 2014, 53, 537-542.	1.9	20
52	Specific Chemistry of the Anions: [TaOF₅]^{2â€“}, [TaF₆]^{â^’}, and [TaF₇]^{2â€“}. Crystal Growth and Design, 2014, 14, 844-850.	1.4	18
53	Synthesis and Magnetic Properties of Î²â€KVOF₃. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1109-1114.	0.6	13
54	Nonlinear Active Materials: An Illustration of Controllable Phase Matchability. Journal of the American Chemical Society, 2013, 135, 11942-11950.	6.6	89

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55	Alignment of Acentric Units in Infinite Chains: A â€œLock and Keyâ€•Model. Crystal Growth and Design, 2013, 13, 4084-4091.	1.4	16
56	DFT-assisted structure determination of Î±1- and Î±2-VOPO4: new insights into the understanding of the catalytic performances of vanadium phosphates. Dalton Transactions, 2013, 42, 8124.	1.6	16
57	The dimeric [V2O2F8]4â^' anion: Structural characterization of a magnetic basic-building-unit. Journal of Solid State Chemistry, 2013, 200, 105-109.	1.4	15
58	Spin Frustration from cis-Edge or -Corner Sharing Metal-Centered Octahedra. Journal of the American Chemical Society, 2013, 135, 19268-19274.	6.6	27
59	Orientational order of [VOF5]2â^' and [NbOF5]2â^' polar units in chains. Journal of Solid State Chemistry, 2012, 195, 132-139.	1.4	35
60	Preservation of Chirality and Polarity between Chiral and Polar Building Units in the Solid State. Inorganic Chemistry, 2012, 51, 10613-10618.	1.9	20
61	From Racemic Units to Polar Materials. Crystal Growth and Design, 2012, 12, 6267-6271.	1.4	21
62	The Role of Polar, Lamdba (Î›)-Shaped Building Units in Noncentrosymmetric Inorganic Structures. Journal of the American Chemical Society, 2012, 134, 7679-7689.	6.6	123
63	NMR study of the LiMnPO4Â·OH and MPO4Â·H2O (M=Mn, V) homeotypic phases and DFT calculations. Solid State Nuclear Magnetic Resonance, 2012, 42, 42-50.	1.5	6
64	VOPO4Â·H2O: A Stacking Faults Structure Studied by X-ray Powder Diffraction and DFT-D Calculations. Inorganic Chemistry, 2011, 50, 4378-4383.	1.9	12
65	A new combined approach to investigate stacking faults in lamellar compounds. , 2011, , 49-54.		0
66	Two caesium vanadium hydrogenphosphates with tunnelled structures: Cs₂V₂O₃(PO₄)(HPO₄) and Cs₂[(VO)₃(HPO₄)₄(H₂O)]Â·H₂O. Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, i12-i15.	0.4	2
67	Electron spin resonance in three spin-12dimer systems:VO(HPO4)â‹…0.5H2O,KZn(H2O)(VO)2(PO4)2(H2PO4), andCsV2O5. Physical Review B, 2010, 81, .	1.1	11
68	A Chiral 3D Silver(I)-Benzenedithiolate Coordination Polymer exhibiting Photoemission and Non Linear Optical Response. Chemical Communications, 0, , .	2.2	3