Nicolas Mercier

List of Publications by Year
in descending order

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71 papers	4,834 citations	109137 35 h-index	95083 68 g-index
75 all docs	75 docs citations	75 times ranked	4665 citing authors

#	Article	IF	Citations
1	Quantum and Dielectric Confinement Effects in Lower-Dimensional Hybrid Perovskite Semiconductors. Chemical Reviews, 2019, 119, 3140-3192.	23.0	525
2	Structural diversity and retro-crystal engineering analysis of iodometalate hybrids. CrystEngComm, 2009, 11, 720.	1.3	256
3	Reduced Band Gap Hybrid Perovskites Resulting from Combined Hydrogen and Halogen Bonding at the Organicâ^'Inorganic Interface. Chemistry of Materials, 2007, 19, 600-607.	3.2	227
4	A Switchable NLO Organicâ€Inorganic Compound Based on Conformationally Chiral Disulfide Molecules and Bi(III)I₅ Iodobismuthate Networks. Advanced Materials, 2008, 20, 1013-1017.	11.1	222
5	Design and Synthesis of Pushâ^'Pull Chromophores for Second-Order Nonlinear Optics Derived from Rigidified Thiophene-Based Ï€-Conjugating Spacers. Journal of Organic Chemistry, 2002, 67, 205-218.	1.7	210
6	Effect of Mono- versus Di-ammonium Cation of 2,2â€˜-Bithiophene Derivatives on the Structure of Organicâ^'Inorganic Hybrid Materials Based on Iodo Metallates. Inorganic Chemistry, 2003, 42, 5330-5339.	1.9	160
7	Thermally Induced Bi(III) Lone Pair Stereoactivity: Ferroelectric Phase Transition and Semiconducting Properties of (MV)BiBr₅ (MV= methylviologen). Chemistry of Materials, 2009, 21, 4099-4101.	3.2	158
8	Planarized Star-Shaped Oligothiophenes with Enhanced Ï€-Electron Delocalization. Organic Letters, 2004, 6, 273-276.	2.4	155
9	Large Spontaneous Polarization and Clear Hysteresis Loop of a Room-Temperature Hybrid Ferroelectric Based on Mixed-Halide [BiI₃Cl₂] Polar Chains and Methylviologen Dication. Journal of the American Chemical Society, 2011, 133, 14924-14927.	6.6	153
10	Unique Hydrogen Bonding Correlating with a Reduced Band Gap and Phase Transition in the Hybrid Perovskites (HO(CH2)2NH3)2PbX4(X = I, Br). Inorganic Chemistry, 2004, 43, 8361-8366.	1.9	146
11	Synthesis and Characterization of the Electronic and Electrochemical Properties of Thienylenevinylene Oligomers with Multinanometer Dimensions. Journal of the American Chemical Society, 1998, 120, 8150-8158.	6.6	137
12	Pushâ€“pull chromophores based on 2,2â€²-bi(3,4-ethylenedioxythiophene) (BEDOT) Ï€-conjugating spacer. Tetrahedron Letters, 2001, 42, 1507-1510.	0.7	135
13	Photochromism, Electrical Properties, and Structural Investigations of a Series of Hydrated Methylviologen Halobismuthate Hybrids: Influence of the Anionic Oligomer Size and Iodide Doping on the Photoinduced Properties and on the Dehydration Process. Inorganic Chemistry, 2010, 49, 5824-5833.	1.9	132
14	Bismuthâ€Based Coordination Polymers with Efficient Aggregationâ€Induced Phosphorescence and Reversible Mechanochromic Luminescence. Angewandte Chemie - International Edition, 2016, 55, 7998-8002.	7.2	121
15	(HO2C(CH2)3NH3)2(CH3NH3)Pb2I7: a predicted non-centrosymmetrical structure built up from carboxylic acid supramolecular synthons and bilayer perovskite sheets. CrystEngComm, 2005, 7, 429.	1.3	118
16	Stable Photoinduced Separated Charge State in Viologen Halometallates: Some Key Parameters. Crystal Growth and Design, 2011, 11, 2064-2069.	1.4	118
17	Photo- and Thermochromic and Adsorption Properties of Porous Coordination Polymers Based on Bipyridinium Carboxylate Ligands. Inorganic Chemistry, 2015, 54, 8923-8930.	1.9	108
18	Novel Fused Dâ^'A Dyad and Aâ^'Dâ^'A Triad Incorporating Tetrathiafulvalene andp-Benzoquinone. Journal of Organic Chemistry, 2004, 69, 2164-2177.	1.7	104

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19	The Templating Effect and Photochemistry of Viologens in Halometalate Hybrid Crystals. European Journal of Inorganic Chemistry, 2013, 2013, 19-31.	1.0	104
20	Tetrathiafulvalene Crowns: Redox-Switchable Ligands. Chemistry - A European Journal, 2001, 7, 447-455.	1.7	102
21	Conglomerate-to-True-Racemate Reversible Solid-State Transition in Crystals of an Organic Disulfide-Based Iodoplumbate. Angewandte Chemie - International Edition, 2006, 45, 2100-2103.	7.2	99
22	Î±- to Î²-(dmes)BiI₅ (dmes = Dimethyl(2-ethylammonium)sulfonium Dication): Umbrella Reversal of Sulfonium in the Solid State and Short IÂ·Â·Â·I Interchain Contactsâ€"Crystal Structures, Optical Properties, and Theoretical Investigations of 1D Iodobismuthates. Inorganic Chemistry, 2009, 48, 879-888.	1.9	77
23	(C4H3SCH2NH3)2(CH3NH3)Pb2I7: non-centrosymmetrical crystal structure of a bilayer hybrid perovskite. Chemical Communications, 2002, , 2160-2161.	2.2	76
24	Leadâ€•and Iodideâ€Deficient (CH₃NH₃)PbI₃ (dâ€MAPI): The Bridge between 2D and 3D Hybrid Perovskites. Angewandte Chemie - International Edition, 2017, 56, 16067-16072.	7.2	75
25	N-Methyl-4,4â€²-bipyridinium andN-Methyl-Nâ€²-oxide-4,4â€²-bipyridinium Bismuth Complexes - Photochromism and Photoluminescence in the Solid State. European Journal of Inorganic Chemistry, 2013, 2013, 1113-1117.	1.0	72
26	An organicâ€"inorganic hybrid perovskite containing copper paddle-wheel clusters linking perovskite layers : [Cu(O2Câ€"(CH2)3â€"NH3)2]PbBr4. Chemical Communications, 2004, , 844-845.	2.2	63
27	PbnI4n+2(2n+2)? ribbons (n = 3, 5) as dimensional reductions of 2D perovskite layers in cystamine cation based hybrids, also incorporating iodine molecules or reversible guest water molecules. Dalton Transactions, 2007, , 965.	1.6	59
28	Hybrid Halide Perovskites: Discussions on Terminology and Materials. Angewandte Chemie - International Edition, 2019, 58, 17912-17917.	7.2	56
29	Enhanced Stability and Band Gap Tuning of Î±-[HC(NH₂)₂]PbI₃ Hybrid Perovskite by Large Cation Integration. ACS Applied Materials & Interfaces, 2019, 11, 20743-20751.	4.0	52
30	Stimulated Emission from a Needle-like Single Crystal of an End-Capped Fluorene/Phenylene Co-oligomer. Advanced Materials, 2003, 15, 906-909.	11.1	49
31	Porous Coordination Polymer Based on Bipyridinium Carboxylate Linkers with High and Reversible Ammonia Uptake. Inorganic Chemistry, 2016, 55, 8587-8594.	1.9	46
32	Type structure, which is composed of organic diammonium, triiodide and hexaiodobismuthate, varies according to different structures of incorporated cations. CrystEngComm, 2007, 9, 298.	1.3	45
33	Reversible dynamic isomerism change in the solid state, from Bi4I16 clusters to BiI4 1D chains in l-cystine based hybrids: templating effect of cations in iodobismuthate network formation. Chemical Communications, 2008, , 5743.	2.2	42
34	The motley family of polar compounds (MV)[M(X5â^'xXâ€²x)] based on anionic chains of trans-connected M(III)(X,Xâ€²)6 octahedra (M=Bi, Sb; X, Xâ€²=Cl, Br, I) and methylviologen (MV) dications. Journal of Solid State Chemistry, 2012, 195, 140-148.	1.4	38
35	Dual phosphorescence from the organic and inorganic moieties of 1D hybrid perovskites of the Pb_{nâ€²}Br_{4nâ€²+2} series (nâ€² = 2, 3, 4, 5). Journal of Materials Chemistry C, 2019, 7, 4424-4433.	2.7	38
36	Unprecedented stacking of MV2+ dications and MVË™+ radical cations in the mixed-valence viologen salt (MV)2(BF4)3 (MV = methylviologen). Chemical Communications, 2013, 49, 10272.	2.2	35

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37	Protonated N-oxide-4,4â€²-bipyridine: from luminescent BiIII complexes to hybrids based on H-bonded dimers or H-bonded open 2D square supramolecular networks. CrystEngComm, 2013, 15, 8565.	1.3	33
38	Aggregation induced phosphorescent N-oxyde-2,2â€²-bipyridine bismuth complexes and polymorphism-dependent emission. Dalton Transactions, 2015, 44, 14589-14593.	1.6	33
39	Bismuthâ€Based Coordination Polymers with Efficient Aggregationâ€Induced Phosphorescence and Reversible Mechanochromic Luminescence. Angewandte Chemie, 2016, 128, 8130-8134.	1.6	33
40	Hybrid Perovskite Resulting from the Solid-State Reaction between the Organic Cations and Perovskite Layers of Î±1-(Br-(CH2)2-NH3)2PbI4. Inorganic Chemistry, 2007, 46, 6148-6154.	1.9	31
41	Crystal structure of (NH3â€“Râ€“NH3)(NH3â€“Râ€“NH2)PbI5 (R=5,5â€²-bis(ethylsulfanyl)-2,2â€²-bithiophene): NH3+â‹¯NH2 interaction as a tool to reach densely packed organic layers in organic-inorganic perovskites. Journal of Solid State Chemistry, 2004, 177, 1067-1071.	1.4	29
42	Protonated N,Nâ€²-Dioxide-4,4â€²-bipyridine, an Interesting Synthon for the Building of Polar H-Bonded Networks?. Crystal Growth and Design, 2011, 11, 5200-5205.	1.4	26
43	A 3D metal halide framework in the organicâ€“inorganic compound (H3N(CH2)2SS(CH2)2NH3)3Pb5I16. Solid State Sciences, 2008, 10, 1269-1275.	1.5	25
44	Mechanochromic Luminescence of N,Nâ€²-Dioxide-4,4â€²-bipyridine Bismuth Coordination Polymers. Crystal Growth and Design, 2020, 20, 7658-7666.	1.4	25
45	Example of Disulfide Conformational Change in the Solid State: Preparation, Optical Properties, and Xâ€ray Studies of a Cystamineâ€Based Iodoplombate Hybrid. European Journal of Inorganic Chemistry, 2008, 2008, 3592-3596.	1.0	23
46	Process-dependent reversible mechanochromic luminescence of bismuth based polymorphs. Journal of Materials Chemistry C, 2016, 4, 5940-5944.	2.7	23
47	N-oxide-4,4â€²-bipyridine, a forgotten ligand in coordination chemistry: structureâ€“photoluminescence property relationships in 2D and 1D lead-coordination polymers. CrystEngComm, 2012, 14, 7844.	1.3	19
48	Noncovalent Chalcogen Bonds and Disulfide Conformational Change in the Cystamineâ€Based Hybrid Perovskite [H₃N(CH₂)₂SS(CH₂)₂NH₃]Pb^{II}I<sub>4</su European Journal of Inorganic Chemistry, 2014, 2014, 364-376.	1.0	18
49	Lead(II) 4,4â€²-BipyridineN-Oxide Coordination Polymers - Highly Phosphorescent Materials with Mechanochromic Luminescence Properties. European Journal of Inorganic Chemistry, 2017, 2017, 844-850.	1.0	18
50	Insight into the Mechanism of Water Adsorption/Desorption in Hydrophilic Viologen-Carboxylate Based PCP. Crystal Growth and Design, 2017, 17, 2828-2835.	1.4	18
51	Hybrid Halide Perovskites: Discussions on Terminology and Materials. Angewandte Chemie, 2019, 131, 18078-18083.	1.6	17
52	Cu^Iâ€“Br Oligomers and Polymers Involving Cuâ€“S(cystamine) Bonds. European Journal of Inorganic Chemistry, 2008, 2008, 1654-1660.	1.0	16
53	Bipyridiniumâ€bis(carboxylate) Radical Based Materials: Xâ€ray, EPR and Paramagnetic Solidâ€State NMR Investigations. European Journal of Inorganic Chemistry, 2016, 2016, 1036-1043.	1.0	16
54	Mechanochromic and Electroluminescence Properties of a Layered Hybrid Perovskite Belonging to the <110> Series. European Journal of Inorganic Chemistry, 2019, 2019, 4527-4531.	1.0	15

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55	A robust viologen and Mn-based porous coordination polymer with two types of Lewis acid sites providing high affinity for H₂O, CO₂ and NH₃. Dalton Transactions, 2017, 46, 15666-15670.	1.6	13
56	From Zero- to One-Dimensional, Opportunities and Caveats of Hybrid Iodobismuthates for Optoelectronic Applications. Inorganic Chemistry, 2021, 60, 17123-17131.	1.9	13
57	Copper(I) coordination ability of the outer S-position isomer of EDT-DMT-TTF (D1): crystal structure of (D1)2Cu2Br4,2CH2Cl2; structural correlation with the (D1)2Cu2Br6 copper(II) salt. Synthetic Metals, 2002, 130, 129-134.	2.1	12
58	Lead Halide Layers Linked bytrans-Cu(Gly)2 (Gly =â€“O2Câ€“CH2â€“NH2) Pillars in Heterometallic Glycinate Based Organicâ€“Inorganic Hybrids. European Journal of Inorganic Chemistry, 2006, 2006, 4225-4228.	1.0	11
59	Leadâ€•and Iodideâ€Deficient (CH₃NH₃)PbI₃ (dâ€MAPI): The Bridge between 2D and 3D Hybrid Perovskites. Angewandte Chemie, 2017, 129, 16283-16288.	1.6	11
60	The Key Role of the Interface in the Highly Sensitive Mechanochromic Luminescence Properties of Hybrid Perovskites. Angewandte Chemie - International Edition, 2021, 60, 834-839.	7.2	8
61	Polymorphism of lead(ii) benzenethiolate: a noncentrosymmetric new allotropic form of Pb(SPh)2. CrystEngComm, 2008, 10, 968.	1.3	5
62	Supramolecular Open-Framework of a Bipyridinium-Carboxylate Based Copper Complex with High and Reversible Water Uptake. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 1439-1444.	0.6	5
63	Layered Arrangement of 1D Wavy Chains in the Leadâ€Free Hybrid Perovskite (PyrCO₂H)₂Bil₅: Structural Investigations and Properties. European Journal of Inorganic Chemistry, 2021, 2021, 1452-1458.	1.0	5
64	Solventâ€Free Preparation and Moderate Congruent Melting Temperature of Layered Lead Iodide Perovskites for Thinâ€Film Formation. Angewandte Chemie - International Edition, 0, , .	7.2	3
65	The Key Role of the Interface in the Highly Sensitive Mechanochromic Luminescence Properties of Hybrid Perovskites. Angewandte Chemie, 2021, 133, 847-852.	1.6	2
66	A 3D Lead Iodide Hybrid Based on a 2D Perovskite Subnetwork. Crystals, 2021, 11, 1570.	1.0	2
67	Morphology and temperature dependence of a dual excitonic emissive 2D bromoplumbate hybrid perovskite: the key role of crystal edges. Journal of Materials Chemistry C, 2022, 10, 10284-10291.	2.7	2
68	Synthesis and Characterization of (FA)₃(HEA)₂Pb₃I₁₁: A Rare Example of <1 1 0>-Oriented Multilayered Halide Perovskites. Chemistry of Materials, 2022, 34, 5780-5790.	3.2	2
69	Influence of oversized cations on electronic dimensionality of d-MAPbI₃ crystals. Journal of Materials Chemistry C, 2020, 8, 7928-7934.	2.7	1
70	(2-Thienylmethyl)ammonium trichlorostannate(II): a hybrid salt. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, m127-m128.	0.4	0
71	Mechanochromic Luminescence of Composites Based on (CH 3 NH 3)PbBr 3 and Layered HPs: Influence of 2D Components and Interface Multilayered Phases. European Journal of Inorganic Chemistry, 0, , .	1.0	0