Christiane Perrin

List of Publications by Year
in descending order

82 papers	2,199 citations	159358 30 h-index	253896 43 g-index
94 all docs	94 docs citations	94 times ranked	1259 citing authors

#	Article	IF	Citations
1	Synthesis and Characterization of Cs2Mo6X14 (X = Br or I) Hexamolybdenum Cluster Halides: Efficient Mo6 Cluster Precursors for Solution Chemistry Syntheses. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 411-416.	0.6	143
2	Stabilization of Mo6S8 by halogens; new superconducting compounds: Mo6S6Br2, Mo6S6I2. Journal of Solid State Chemistry, 1977, 22, 87-92.	1.4	99
3	Redâ€NIR Luminescent Hybrid Poly(methyl methacrylate) Containing Covalently Linked Octahedral Rhenium Metallic Clusters. Chemistry - A European Journal, 2010, 16, 5613-5619.	1.7	86
4	Detailed Structural and Theoretical Studies of the Bonding in Edge-Bridged Halide and Oxyhalide Octahedral Niobium and Tantalum Clusters. Inorganic Chemistry, 1998, 37, 6199-6207.	1.9	84
5	Silver Molybdate and Silver Tungstate Nanocomposites with Enhanced Photoluminescence. Nanomaterials and Nanotechnology, 2014, 4, 22.	1.2	83
6	Self-Assembly of Ambivalent Organic/Inorganic Building Blocks Containing Re₆ Metal Atom Cluster: Formation of a Luminescent Honeycomb, Hollow, Tubular Metal-Organic Framework. Inorganic Chemistry, 2009, 48, 1482-1489.	1.9	61
7	One-pot synthesis and characterizations of bi-functional phosphorâ€“magnetic @SiO2 nanoparticles: controlled and structured association of Mo6 cluster units and Î³-Fe2O3 nanocrystals. Chemical Communications, 2008, , 4729.	2.2	57
8	From Simple Monopyridine Clusters [Mo6Br13(Py-R)][n-Bu4N] and Hexapyridine Clusters [Mo6X8(Py-R)6][OSO2CF3]4(X = Br or I) to Cluster-Cored Organometallic Stars, Dendrons, and Dendrimers. Inorganic Chemistry, 2006, 45, 1156-1167.	1.9	56
9	When â€œMetal Atom Clustersâ€•Meet ZnO Nanocrystals: A ((nâ€¢₄H₉)₄N)₂Mo₆Br₁₄@ZnO Hybrid. Advanced Materials, 2008, 20, 1710-1715.	1.9	56
10	Selective functionalisation of Re6 cluster anionic units: from hexa-hydroxo [Re6Q8(OH)6]4â¯ (Q = S,) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	55
11	Connecting structural, optical, and electronic properties and photocatalytic activity of Ag3PO4:Mo complemented by DFT calculations. Applied Catalysis B: Environmental, 2018, 238, 198-211.	10.8	53
12	Structure and magnetic properties of two niobium chlorides with Â¦Nb6Cl12Â¦n+ (n = 2, 3) units: KLuNb6Cl18 and LuNb6Cl18. Journal of the Less Common Metals, 1988, 137, 323-332.	0.9	51
13	Synthesis, antifungal evaluation and optical properties of silver molybdate microcrystals in different solvents: a combined experimental and theoretical study. Dalton Transactions, 2016, 45, 10736-10743.	1.6	49
14	Octahedral clusters in molybdenum(II) and rhenium(III) chalcohalide chemistry. Journal of the Less Common Metals, 1988, 137, 241-265.	0.9	48
15	Electrochemical and Charge Transport Behavior of Molybdenum-Based Metallic Cluster Layers Immobilized on Modified n- and p-Type Si(111) Surfaces. Journal of Physical Chemistry C, 2009, 113, 17437-17446.	1.5	45
16	Recent investigations on the (Me6L18)n unit based halides and oxyhalides (Me î—» Nb, Ta and L î—» Cl, Br, O) with rare earths as countercations: Electronic and steric effects. Journal of Alloys and Compounds, 1995, 229, 123-133.	2.8	44
17	(Me4N)5[Nb6Cl9O3(CN)6]Ã¢Â‹Â…5Ã¢Â€Â‰H2O This work was supported by INTAS (grant N2000-00689). N.G.N. is grateful to the NATO for financial support during his stay at the LCSIM. The authors thank the Center of Diffractometry of Rennes 1 University for crystal structures and the Center for Scanning Electron Microscopy and Microanalyses of Rennes 1 University for analyses.. Angewandte Chemie - International Edition, 2002, 41, 3002.	7.2	43
18	Nanocluster cores (X=Br, I): From inorganic solid state compounds to hybrids. Inorganica Chimica Acta, 2006, 359, 1705-1709.	1.2	42

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19	Octahedral clusters in transition element chemistry. Journal of Alloys and Compounds, 1997, 262-263, 10-21.	2.8	41
20	Experimental and Theoretical Evidence of Ï€â€d Interactions in Supramolecular Assemblies Based on TTFâ€CH=CHâ€Py Ligands Tethered to Mo₆Xⁱ₈ Octahedral Molybdenum Halide Cluster Cores. European Journal of Inorganic Chemistry, 2009, 2009, 2153-2161.	1.0	41
21	Synthesis and Characterization of Mo6 Chalcobromides and Cyano-Substituted Compounds Built from a Novel [(Mo6Bri6Yi2)La6]n- Discrete Cluster Unit (Yi = S or Se and La = Br or CN). Inorganic Chemistry, 2004, 43, 219-226.	1.9	40
22	Crystallochemistry of some new niobium bromides with (Nb6Br18) units: Structures of CsErNb6Br18 and Cs2EuNb6Br18. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1993, 619, 621-627.	0.6	38
23	The molybdenum and rhenium octahedral cluster chalcohalides in solid state chemistry: From condensed to discrete cluster units. Comptes Rendus Chimie, 2012, 15, 815-836.	0.2	35
24	New series of niobium oxychlorides, M2RENb6Cl15O3 (M = monovalent cation, RE = rare earth) and M2UNb6Cl15O3. The crystal structure of Cs2UNb6Cl15O3. Materials Research Bulletin, 1997, 32, 25-33.	2.7	34
25	Synthesis and structures of new cyanide and thiocyanate complexes based on Nb6Cli12 cluster core: Cs4[Nb6Cli12(CN)a6]Â·H2O, Cs4[Nb6Cli12(NCS)a6] and the double salt (Me4N)4[Nb6Cli12(CN)a6]Â·2Me4NClÂ·H2O. Solid State Sciences, 2003, 5, 1359-1367.	1.5	33
26	Mo6Br8-Cluster-cored organometallic stars and dendrimers. Comptes Rendus Chimie, 2005, 8, 1789-1797.	0.2	31
27	Novel redox properties of the paramagnetic hexanuclear niobium cluster halide Nb6Cl183- and the preparation, structures, and conducting and magnetic properties of its one-dimensional mixed-valence tetramethyltetra(selena and thia)fulvalenium salts: [TMTSF and TMTTF]5[Nb6Cl18].cntdot.(CH2Cl2)0.5. Chemistry of Materials, 1990, 2, 123-132.	3.2	30
28	A new series of oxyhalides based on (Nb6Cl11iOi)Cl6a units with oxygen in statistical occupancy: M2renb6Cl17O. The crystal structure of Cs2LuNb6Cl17O. Materials Research Bulletin, 1996, 31, 683-690.	2.7	30
29	Syntheses and structures of two new M6Li8(N3)a6 cluster-unit based compounds: Cs4Re6S8(N3)6Â·H2O and Na2Mo6Br8(N3)6Â·2H2O. Solid State Sciences, 2003, 5, 1263-1270.	1.5	27
30	The Simple Hexapyridine Cluster [Mo6Br8Py6][OSO2CF3]4 and Substituted Hexapyridine Clusters Including a Cluster-cored Polyolefin Dendrimer. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 2746-2750.	0.6	25
31	Influence of solvent on the morphology and photocatalytic properties of ZnS decorated CeO2 nanoparticles. Journal of Applied Physics, 2014, 115, .	1.1	24
32	Preparation, structure, and magnetic properties of a ternary tetrathiafulvalenium salt based on a paramagnetic hexanuclear niobium cluster halide: (TTF+)2[(Nb6Cl18)3-][(C2H5)4N+][CH3CN], a unique molecular rock salt with channels incorporating a neutral organic molecule. Chemistry of Materials, 1990, 2, 117-123.	3.2	23
33	An extended open framework based on disordered [Nb6Cl9O3(CN)6]5â" cluster units: Synthesis and crystal structure of Cs3Mn[Nb6Cl9O3(CN)6]â‹…0.6H2O. Solid State Sciences, 2005, 7, 1517-1521.	1.5	22
34	Access to a novel niobium octahedral cluster core via soft chemistry: synthesis and structure of K2.6Cs3.4[Nb6Cl4O4(OH)4(CN)6]Â·3H2O containing isolated Nb6Cli4Oi4(OH)i4(CN)a6 cluster unit. Inorganica Chimica Acta, 2003, 350, 503-510.	1.2	21
35	Lowâ€Dimensional Frameworks in Solid State Chemistry of Mo₆ and Re₆ Cluster Chalcohalides. European Journal of Inorganic Chemistry, 2011, 2011, 3848-3856.	1.0	21
36	New Compounds in the Ta6 Bromide Chemistry: M2RETa6Br18, MRETa6Br18, RETa6Br18 (M = monovalent) Tj ETQq0 0 0 rgBT /Overloch 274-279.	1.4	20

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37	First cation radical mixed-valence hybrid salts of the paramagnetic octahedral cluster Nb6Cl183a€". Preparation, crystal structures, and conducting and magnetic properties of pentakis(2,3,6,7-tetramethyl-1,4,5,8-tetra-selena- and -thia-fulvalenium) hexachloro(dodeca-Âµ2-chloro-octahedro-hexaniobate). Journal of the Chemical Society Chemical Communications, 1987, , 330-332.	2.0	19
38	Fluorination of high Tc superconductors YBa2Cu3Ox : Influence on the superconducting properties. Physica C: Superconductivity and Its Applications, 1988, 153-155, 934-935.	0.6	19
39	Octahedral niobium cluster-based solid state halides and oxyhalides: effects of the cluster condensation via an oxygen ligand on electronic and magnetic properties. New Journal of Chemistry, 2011, 35, 2245.	1.4	19
40	Synthesis and properties of charge-transfer solids with cluster units [Mo6X14]2â^' (X = Br, I). Journal of Materials Chemistry, 2012, 22, 19774.	6.7	19
41	Isotropic Threeâ€Dimensional Molecular Conductor Based on the Coronene Radical Cation. European Journal of Inorganic Chemistry, 2014, 2014, 3871-3878.	1.0	19
42	Unusual Coexistence of Magnetic and Nonmagnetic Mo6 Octahedral Clusters in a Chalcohalide Solid Solution: Synthesis, X-ray Diffraction, EPR, and DFT Investigations of Cs3Mo6li6li2â^'xSeixIa6. Chemistry - A European Journal, 2007, 13, 9608-9616.	1.7	17
43	Influence of fluorination on the 110 K transition in the Bi-Sr-Ca-Cu-O system. Physica C: Superconductivity and Its Applications, 1989, 159, 443-446.	0.6	16
44	Rhenium octahedral cluster segregation in selected countercation matrices: synthesis and structure of My[(Re6Si6Bri2)Bra6] (M=(n-Bu4N)+, y=2; M=[Ca(DMSO)6]2+ or [Cs2(18-crown-6)3]2+, y=1). Inorganica Chimica Acta, 2003, 350, 537-546.	1.2	16
45	Soluble Î¼-Fibridged niobium clusters: synthesis and crystal structures of (Et4N)6[Nb6Fi6Bri6(NCS)a6]Br2and Cs1.6K2.4[Nb6Fi6li6(NCS)a6]. Chemical Communications, 2004, , 1126-1127.	2.2	16
46	Magnetic clusters and magnetic interactions in single-crystal studies of K(RE)Nb6Cl18 and (RE)Nb6Cl18 (RE = Lu and Tm). Solid State Communications, 1990, 74, 285-290.	0.9	15
47	A Novel Layered Niobium Oxychloride Compound Based on Nb2Pairs and Nb6Octahedral Clusters:Â Synthesis and Crystal and Electronic Structures of Nb10Cl16O7. Inorganic Chemistry, 2003, 42, 8320-8327.	1.9	15
48	The crystal structure of CsNb6Cl12O2, a novel niobium cluster oxychloride with interconnected Nb6Cl14O4 units. Journal of Materials Chemistry, 2000, 10, 1721-1724.	6.7	14
49	A hybrid material based on [Mo6Br14]2â^' inorganic cluster units and [BEDO-TTF]+ organic monocationic radicals: Synthesis, structure and properties of (BEDO-TTF)2Mo6Br14(PhCN)4. Journal of Solid State Chemistry, 2006, 179, 3628-3635.	1.4	14
50	Rational Design of W-Doped Ag₃PO₄ as an Efficient Antibacterial Agent and Photocatalyst for Organic Pollutant Degradation. ACS Omega, 2020, 5, 23808-23821.	1.6	14
51	Actual fluorination of YBa 2 Cu 3 O x superconductors: Enhancement of superconducting properties and neutron diffraction studies. Physica C: Superconductivity and Its Applications, 1989, 162-164, 889-890.	0.6	13
52	The crystal structure of PbLu3Nb6Cl15O6, a new oxychloride based on discrete Nb6Cl12O6 units. Journal of Materials Chemistry, 2001, 11, 1237-1241.	6.7	13
53	The novel Cs4Nb6Fi8.5li3.5Ia6 octahedral niobium cluster fluoro-iodide: a step towards the Nb6Fi12 cluster core excision. Journal of Solid State Chemistry, 2004, 177, 1017-1022.	1.4	13
54	Assisted Crystallization of Organometallic Cations by Interplay with Inorganic Anionic Clusters Units: Synthesis and Characterizations of the [Cp*(dppe)Fe-NCMe]2Â·M6L14Series (M6L14= Cluster Unit:) Tj ETQq1 0 0 rgBT /Overlock		

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55	Solid state synthesis, structures and redox properties of the new [Mo6Bri7TeiBra6]3â˜ and [Mo6Bri7SeiBra6]3â˜ octahedral cluster units: Crystallochemistry of the Rb2+xMo6Bri8â˜xYixBra6 series (x=0.5 for Y=Te; 0.25â©½xâ©½0.7 for Y=Se) and Rb2Mo6Br14. Journal of Solid State Chemistry, 2005, 178, 3117-3129.	1.4	12
56	⁹⁵Mo Solid-State Nuclear Magnetic Resonance Spectroscopy and Quantum Simulations: Synergetic Tools for the Study of Molybdenum Cluster Materials. Inorganic Chemistry, 2013, 52, 617-627.	1.9	12
57	The crystal structure of Nb3O2Cl5, an original Nb3 cluster oxyhalide. Materials Research Bulletin, 2000, 35, 253-262.	2.7	11
58	Reducing and oxidizing annealings of bismuth high-Tc superconductors. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1215-1216.	0.6	10
59	Annealing effects on the 110 k transition in the Bi1,Sr1,Ca1Cu2 oxide superconductors. Materials Letters, 1989, 8, 165-170.	1.3	10
60	Novel crystal structure in the Chevrel-phase compound EuMo6Se8. Transport and magnetic properties. Journal of Alloys and Compounds, 1998, 280, 85-93.	2.8	10
61	Synthesis and Crystal and Electronic Structures of the Na2(Sc4Nb2)(Nb6O12)3Octahedral Niobium Cluster Oxide. Structural Correlations between AnBM6L12(Z) Series and Chevrel Phases. Inorganic Chemistry, 2006, 45, 883-893.	1.9	10
62	Spin frustration in antiperovskite systems: (TTFË™⁺ or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (TSFË™⁺ Journal of Materials Chemistry C, 2015, 3, 11046-11054.	2.7	10
63	A New Niobium Cluster Oxychloride Built from Interconnected Nb6Cl12O6 Units: Na0.21Nb6Cl10.5O3. Journal of Solid State Chemistry, 2002, 163, 325-331.	1.4	8
64	Ex-situ fluorination of oxygen deficient YBa2Cu3Ox thin films deposited by laser ablation on (100) SrTiO3 substrates. Solid State Communications, 1996, 98, 501-505.	0.9	6
65	The octahedral cluster compounds of early transition metals: An original class of dielectric materials. Ferroelectrics, 2001, 254, 83-90.	0.3	6
66	Two [Nb6Cl9O3(CN)6]5Ã¢ˆÂ' Isomer Anions in Two Nb6 Cluster Oxyhalides: Cs5[Nb6Cl9O3(CN)6]Ã¢Â‹Â…4Ã¢Â€Â‰H2O and (Me4N)5[Nb6Cl9O3(CN)6]Ã¢Â‹Â…5Ã¢Â€Â‰H2O This work was supported by INTAS (grant N2000-00689). N.G.N. is grateful to the NATO for financial support during his stay at the LCSIM. The authors thank the Center of Diffractometry of Rennes 1 University for crystal structures and the Center for Scanning Electron Microscopy and Microanalyses of Rennes 1 University for analyses.. Angewandte Chemie, 2002, 114, 3128.	1.6	6
67	Unprecedented Î¼3-Oi face-capping ligand in a [Mo6Bri6Li2Bra6] (L=0.5 O+0.5 Br) molybdenum cluster unit: crystal structure of the Cs3Mo6Br13O oxybromide. Comptes Rendus Chimie, 2005, 8, 1712-1718.	0.2	6
68	Unprecedented Association of [Mo6Bri7YiBra6]3â˜ Cluster Units and [MoIIIBr6]3â˜ Complexes: Synthesis, Crystal Structures, and Properties of the Double Salts Rb3[Mo6Bri7YiBra6](Rb3[MoBr6])3 (Y=Se, Te). Chemistry - A European Journal, 2006, 12, 6419-6425.	1.7	6
69	Tetrahedral Mo₄ Clusters as Building Blocks for the Design of Clathrateâ€Related Giant Frameworks. Angewandte Chemie - International Edition, 2011, 50, 7300-7303.	7.2	6
70	Elaboration of hybrid nanocluster materials by solution chemistry. Progress in Solid State Chemistry, 2005, 33, 81-88.	3.9	5
71	Isomery of [Re6S6Br8] and [Re6S5Br9] Units in a Rhenium Cluster Thiobromide: Experimental and Theoretical Approaches. Journal of Cluster Science, 2009, 20, 145-151.	1.7	5
72	State-of-Art and New Trends in Transition Metal Clusters. Journal of Cluster Science, 2009, 20, 1-7.	1.7	4

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73	Chevrel Phases: Genesis and Developments. Structure and Bonding, 2019, , 1-30.	1.0	4
74	Two Coordination Modes of Bidentate Aminopyrazine Ligands in Cubane-type Cluster Complex Re4Te4Cl8(C4N3H4)4ÂÂ·Â2DMF. Journal of Cluster Science, 2009, 20, 77-81.	1.7	2
75	Optimization of the superconducting properties of REBa2Cu3Ox by thermal treatment. Physica C: Superconductivity and Its Applications, 1988, 153-155, 373-374.	0.6	1
76	Tc enhancement, granular effects, critical currents and magnetization measurements in Y-Ba-Cu-O compounds after halogen (F) insertion.. Physica B: Condensed Matter, 1991, 169, 693-694.	1.3	0
77	New Nb6Cl15 â^' xFx chlorofluoride: Stabilization of the Ta6Cl15 structure-type for binary Nb6 halide. Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry, 1999, 2, 661-667.	0.1	0
78	Synthesis and Structures of New Cyanide and Thiocyanate Complexes Based on Nb6Cl12i Cluster Core: Cs4 [Nb6Cl12i(CN)6a] Ã—H2O, Cs4 [Nb6Cl12i(NCS)6a] and the Double Salt (Me4N)4 [Nb6Cl12i(CN)6a] Ã—2Me4NClÃ—H2O.. ChemInform, 2004, 35, no.	0.1	0
79	A Novel Layered Niobium Oxychloride Compound Based on Nb2 Pairs and Nb6 Octahedral Clusters: Synthesis and Crystal and Electronic Structures of Nb10Cl16O7.. ChemInform, 2004, 35, no.	0.1	0
80	Synthesis and Characterization of Mo6 Chalcobromides and Cyano-Substituted Compounds Built from a Novel [(Mo6Br6iY2i) L6a]n- Discrete Cluster Unit (Yi: S or Se and La: Br or CN).. ChemInform, 2004, 35, no.	0.1	0
81	Soluble Î¼-Fi Bridged Niobium Clusters: Synthesis and Crystal Structures of (Et4N)6 [Nb6F6iBr6i (NCS)6a]Br2 and Cs1.6K2.4 [Nb6F6iI6i (NCS)6a].. ChemInform, 2004, 35, no.	0.1	0
82	Synthesis and Characterization of Cs2Mo6X14 (X: Br or I) Hexamolybdenum Cluster Halides: Efficient Mo6 Cluster Precursors for Solution Chemistry Syntheses.. ChemInform, 2005, 36, no.	0.1	0