

Christiane Perrin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/372238/publications.pdf>

Version: 2024-02-01

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	Rational Design of W-Doped Ag ₃ PO ₄ as an Efficient Antibacterial Agent and Photocatalyst for Organic Pollutant Degradation. ACS Omega, 2020, 5, 23808-23821.	1.6	14
2	Chevreil Phases: Genesis and Developments. Structure and Bonding, 2019, , 1-30.	1.0	4
3	Connecting structural, optical, and electronic properties and photocatalytic activity of Ag ₃ PO ₄ :Mo complemented by DFT calculations. Applied Catalysis B: Environmental, 2018, 238, 198-211.	10.8	53
4	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
5	Spin frustration in antiperovskite systems: (TTF ⁺ or Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (TSF ⁺ sup Journal of Materials Chemistry C, 2015, 3, 11046-11054.	2.7	10
6	Influence of solvent on the morphology and photocatalytic properties of ZnS decorated CeO ₂ nanoparticles. Journal of Applied Physics, 2014, 115, .	1.1	24
7	Silver Molybdate and Silver Tungstate Nanocomposites with Enhanced Photoluminescence. Nanomaterials and Nanotechnology, 2014, 4, 22.	1.2	83
8	Isotropic Three-Dimensional Molecular Conductor Based on the Coronene Radical Cation. European Journal of Inorganic Chemistry, 2014, 2014, 3871-3878.	1.0	19
9	⁹⁵ Mo 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
10	Synthesis and properties of charge-transfer solids with cluster units [Mo ₆ X ₁₄] ₂ ⁺ (X = Br, I). Journal of Materials Chemistry, 2012, 22, 19774.	6.7	19
11	The molybdenum and rhenium octahedral cluster chalcogenides in solid state chemistry: From condensed to discrete cluster units. Comptes Rendus Chimie, 2012, 15, 815-836.	0.2	35
12	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
13	Low-Dimensional Frameworks in Solid State Chemistry of Mo ₆ and Re ₆ Cluster Chalcogenides. European Journal of Inorganic Chemistry, 2011, 2011, 3848-3856.	1.0	21
14	Tetrahedral Mo ₄ Clusters as Building Blocks for the Design of Clathrate-Related Giant Frameworks. Angewandte Chemie - International Edition, 2011, 50, 7300-7303.	7.2	6
15	Red-NIR Luminescent Hybrid Poly(methyl methacrylate) Containing Covalently Linked Octahedral Rhenium Metallic Clusters. Chemistry - A European Journal, 2010, 16, 5613-5619.	1.7	86
16	Experimental and Theoretical Evidence of π - π Interactions in Supramolecular Assemblies Based on TTF-CH=CH-Py Ligands Tethered to Mo ₆ X ₈ Octahedral Molybdenum Halide Cluster Cores. European Journal of Inorganic Chemistry, 2009, 2009, 2153-2161.	1.0	41
17	Isomery of [Re ₆ S ₆ Br ₈] and [Re ₆ S ₅ Br ₉] Units in a Rhenium Cluster Thiobromide: Experimental and Theoretical Approaches. Journal of Cluster Science, 2009, 20, 145-151.	1.7	5
18	Two Coordination Modes of Bidentate Aminopyrazine Ligands in Cubane-type Cluster Complex Re ₄ Te ₄ Cl ₈ (C ₄ N ₃ H ₄) ₄ ·2DMF. Journal of Cluster Science, 2009, 20, 77-81.	1.7	2

#	ARTICLE	IF	CITATIONS
37	Synthesis and Characterization of Cs ₂ Mo ₆ X ₁₄ (X = Br or I) Hexamolybdenum Cluster Halides: Efficient Mo ₆ Cluster Precursors for Solution Chemistry Syntheses. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 411-416.	0.6	143
38	The Simple Hexapyridine Cluster [Mo ₆ Br ₈ Py ₆][OSO ₂ CF ₃] ₄ and Substituted Hexapyridine Clusters Including a Cluster-cored Polyolefin Dendrimer. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2746-2750.	0.6	25
39	Elaboration of hybrid nanocluster materials by solution chemistry. <i>Progress in Solid State Chemistry</i> , 2005, 33, 81-88.	3.9	5
40	Synthesis and Structures of New Cyanide and Thiocyanate Complexes Based on Nb ₆ Cl ₁₂ i Cluster Core: Cs ₄ [Nb ₆ Cl ₁₂ i(CN) ₆ a] · 2H ₂ O, Cs ₄ [Nb ₆ Cl ₁₂ i(NCS) ₆ a] and the Double Salt (Me ₄ N) ₄ [Nb ₆ Cl ₁₂ i(CN) ₆ a] · 2Me ₄ NCl · 2H ₂ O.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
41	A Novel Layered Niobium Oxychloride Compound Based on Nb ₂ Pairs and Nb ₆ Octahedral Clusters: Synthesis and Crystal and Electronic Structures of Nb ₁₀ Cl ₁₆ O ₇ .. <i>ChemInform</i> , 2004, 35, no.	0.1	0
42	Synthesis and Characterization of Mo ₆ Chalcobromides and Cyano-Substituted Compounds Built from a Novel [(Mo ₆ Br ₆ Y ₂)L ₆ a] _n - Discrete Cluster Unit (Yi: S or Se and La: Br or CN).. <i>ChemInform</i> , 2004, 35, no.	0.1	0
43	Soluble 1/4-Fi Bridged Niobium Clusters: Synthesis and Crystal Structures of (Et ₄ N) ₆ [Nb ₆ F ₆ iBr ₆ i(NCS) ₆ a]Br ₂ and Cs _{1.6} K _{2.4} [Nb ₆ F ₆ iBr ₆ i(NCS) ₆ a].. <i>ChemInform</i> , 2004, 35, no.	0.1	0
44	The novel Cs ₄ Nb ₆ Fi _{8.5} Li _{3.5} La ₆ octahedral niobium cluster fluoro-iodide: a step towards the Nb ₆ Fi ₁₂ cluster core excision. <i>Journal of Solid State Chemistry</i> , 2004, 177, 1017-1022.	1.4	13
45	Synthesis and Characterization of Mo ₆ Chalcobromides and Cyano-Substituted Compounds Built from a Novel [(Mo ₆ Br ₆ Y ₂)La ₆ a] _n - Discrete Cluster Unit (Yi = S or Se and La = Br or CN). <i>Inorganic Chemistry</i> , 2004, 43, 219-226.	1.9	40
46	Soluble 1/4-Fibriddged niobium clusters: synthesis and crystal structures of (Et ₄ N) ₆ [Nb ₆ Fi ₆ Br ₆ i(NCS) ₆ a]Br ₂ and Cs _{1.6} K _{2.4} [Nb ₆ Fi ₆ li ₆ (NCS) ₆ a]. <i>Chemical Communications</i> , 2004, , 1126-1127.	2.2	16
47	Syntheses and structures of two new M ₆ Li ₈ (N ₃) ₆ cluster-unit based compounds: Cs ₄ Re ₆ S ₈ (N ₃) ₆ · 2H ₂ O and Na ₂ Mo ₆ Br ₈ (N ₃) ₆ · 2H ₂ O. <i>Solid State Sciences</i> , 2003, 5, 1263-1270.	1.5	27
48	Synthesis and structures of new cyanide and thiocyanate complexes based on Nb ₆ Cl ₁₂ cluster core: Cs ₄ [Nb ₆ Cl ₁₂ (CN) ₆ a] · 2H ₂ O, Cs ₄ [Nb ₆ Cl ₁₂ (NCS) ₆ a] and the double salt (Me ₄ N) ₄ [Nb ₆ Cl ₁₂ (CN) ₆ a] · 2Me ₄ NCl · 2H ₂ O. <i>Solid State Sciences</i> , 2003, 5, 1359-1367.	1.5	33
49	Access to a novel niobium octahedral cluster core via soft chemistry: synthesis and structure of K _{2.6} Cs _{3.4} [Nb ₆ Cl ₄ O ₄ (OH) ₄ (CN) ₆] · 3H ₂ O containing isolated Nb ₆ Cl ₄ O ₄ (OH) ₄ (CN) ₆ cluster unit. <i>Inorganica Chimica Acta</i> , 2003, 350, 503-510.	1.2	21
50	Rhenium octahedral cluster segregation in selected counteraction matrices: synthesis and structure of My[(Re ₆ Si ₆ Br ₂)Bra ₆] (M=(n-Bu ₄ N) ⁺ , y=2; M=[Ca(DMSO) ₆] ²⁺ or [Cs ₂ (18-crown-6) ₃] ²⁺ , y=1). <i>Inorganica Chimica Acta</i> , 2003, 350, 537-546.	1.2	16
51	A Novel Layered Niobium Oxychloride Compound Based on Nb ₂ Pairs and Nb ₆ Octahedral Clusters: Synthesis and Crystal and Electronic Structures of Nb ₁₀ Cl ₁₆ O ₇ . <i>Inorganic Chemistry</i> , 2003, 42, 8320-8327.	1.9	15
52	Two [Nb ₆ Cl ₉ O ₃ (CN) ₆] · 5AcAcA · 2H ₂ O Isomer Anions in Two Nb ₆ Cluster Oxyhalides: Cs ₅ [Nb ₆ Cl ₉ O ₃ (CN) ₆] · 4AcAcA · 2H ₂ O and (Me ₄ N) ₅ [Nb ₆ Cl ₉ O ₃ (CN) ₆] · 5AcAcA · 2H ₂ O 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.. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3128-3129.	1.6	6
53	Two [Nb ₆ Cl ₉ O ₃ (CN) ₆] · 5AcAcA · 2H ₂ O Isomer Anions in Two Nb ₆ Cluster Oxyhalides: Cs ₅ [Nb ₆ Cl ₉ O ₃ (CN) ₆] · 4AcAcA · 2H ₂ O and (Me ₄ N) ₅ [Nb ₆ Cl ₉ O ₃ (CN) ₆] · 5AcAcA · 2H ₂ O 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.. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3002.	7.2	43
54	A New Niobium Cluster Oxychloride Built from Interconnected Nb ₆ Cl ₁₂ O ₆ Units: Na _{0.21} Nb ₆ Cl _{10.5} O ₃ . <i>Journal of Solid State Chemistry</i> , 2002, 163, 325-331.	1.4	8

#	ARTICLE	IF	CITATIONS
55	The crystal structure of PbLu ₃ Nb ₆ Cl ₁₅ O ₆ , a new oxychloride based on discrete Nb ₆ Cl ₁₂ O ₆ units. <i>Journal of Materials Chemistry</i> , 2001, 11, 1237-1241.	6.7	13
56	The octahedral cluster compounds of early transition metals: An original class of dielectric materials. <i>Ferroelectrics</i> , 2001, 254, 83-90.	0.3	6
57	The crystal structure of Nb ₃ O ₂ Cl ₅ , an original Nb ₃ cluster oxyhalide. <i>Materials Research Bulletin</i> , 2000, 35, 253-262.	2.7	11
58	The crystal structure of CsNb ₆ Cl ₁₂ O ₂ , a novel niobium cluster oxychloride with interconnected Nb ₆ Cl ₁₄ O ₄ units. <i>Journal of Materials Chemistry</i> , 2000, 10, 1721-1724.	6.7	14
59	New Nb ₆ Cl ₁₅ xFx chlorofluoride: Stabilization of the Ta ₆ Cl ₁₅ structure-type for binary Nb ₆ halide. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 1999, 2, 661-667.	0.1	0
60	Novel crystal structure in the Chevrel-phase compound EuMo ₆ Se ₈ . Transport and magnetic properties. <i>Journal of Alloys and Compounds</i> , 1998, 280, 85-93.	2.8	10
61	Detailed Structural and Theoretical Studies of the Bonding in Edge-Bridged Halide and Oxyhalide Octahedral Niobium and Tantalum Clusters. <i>Inorganic Chemistry</i> , 1998, 37, 6199-6207.	1.9	84
62	Octahedral clusters in transition element chemistry. <i>Journal of Alloys and Compounds</i> , 1997, 262-263, 10-21.	2.8	41
63	New series of niobium oxychlorides, M ₂ RENb ₆ Cl ₁₅ O ₃ (M = monovalent cation, RE = rare earth) and M ₂ UNb ₆ Cl ₁₅ O ₃ . The crystal structure of Cs ₂ UNb ₆ Cl ₁₅ O ₃ . <i>Materials Research Bulletin</i> , 1997, 32, 25-33.	2.7	34
64	A new series of oxyhalides based on (Nb ₆ Cl ₁₁ Oi)Cl ₆ a units with oxygen in statistical occupancy: M ₂ renb ₆ Cl ₁₇ O. The crystal structure of Cs ₂ LuNb ₆ Cl ₁₇ O. <i>Materials Research Bulletin</i> , 1996, 31, 683-690.	2.7	30
65	Ex-situ fluorination of oxygen deficient YBa ₂ Cu ₃ O _x thin films deposited by laser ablation on (100) SrTiO ₃ substrates. <i>Solid State Communications</i> , 1996, 98, 501-505.	0.9	6
66	New Compounds in the Ta ₆ Bromide Chemistry: M ₂ RETa ₆ Br ₁₈ , MRETa ₆ Br ₁₈ , RETa ₆ Br ₁₈ (M = monovalent) Tj ETQq0 0 0 rgBT /Overlock 274-279.	1.4	20
67	Recent investigations on the (Me ₆ L ₁₈) _n unit based halides and oxyhalides (Me → Nb, Ta and L → Cl, Br, O) with rare earths as counteranions: Electronic and steric effects. <i>Journal of Alloys and Compounds</i> , 1995, 229, 123-133.	2.8	44
68	Crystallochemistry of some new niobium bromides with (Nb ₆ Br ₁₈) units: Structures of CsErNb ₆ Br ₁₈ and Cs ₂ EuNb ₆ Br ₁₈ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1993, 619, 621-627.	0.6	38
69	Tc enhancement, granular effects, critical currents and magnetization measurements in Y-Ba-Cu-O compounds after halogen (F) insertion.. <i>Physica B: Condensed Matter</i> , 1991, 169, 693-694.	1.3	0
70	Magnetic clusters and magnetic interactions in single-crystal studies of K(RE)Nb ₆ Cl ₁₈ and (RE)Nb ₆ Cl ₁₈ (RE = Lu and Tm). <i>Solid State Communications</i> , 1990, 74, 285-290.	0.9	15
71	Preparation, structure, and magnetic properties of a ternary tetrathiafulvalenium salt based on a paramagnetic hexanuclear niobium cluster halide: (TTF ⁺) ₂ [(Nb ₆ Cl ₁₈) ₃][(C ₂ H ₅) ₄ N ⁺][CH ₃ CN], a unique molecular rock salt with channels incorporating a neutral organic molecule. <i>Chemistry of Materials</i> , 1990, 2, 117-123.	3.2	23
72	Novel redox properties of the paramagnetic hexanuclear niobium cluster halide Nb ₆ Cl ₁₈ - 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 [Nb ₆ Cl ₁₈].cntdot.(CH ₂ Cl) _{0.5} . <i>Chemistry of Materials</i> , 1990, 2, 123-132.	3.2	30

#	ARTICLE	IF	CITATIONS
73	Actual fluorination of YBa ₂ Cu ₃ O _x superconductors: Enhancement of superconducting properties and neutron diffraction studies. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 162-164, 889-890.	0.6	13
74	Reducing and oxidizing annealings of bismuth high-T _c superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 162-164, 1215-1216.	0.6	10
75	Influence of fluorination on the 110 K transition in the Bi-Sr-Ca-Cu-O system. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 159, 443-446.	0.6	16
76	Annealing effects on the 110 k transition in the Bi ₁ Sr ₁ Ca ₁ Cu ₂ oxide superconductors. <i>Materials Letters</i> , 1989, 8, 165-170.	1.3	10
77	Fluorination of high T _c superconductors YBa ₂ Cu ₃ O _x : Influence on the superconducting properties. <i>Physica C: Superconductivity and Its Applications</i> , 1988, 153-155, 934-935.	0.6	19
78	Optimization of the superconducting properties of REBa ₂ Cu ₃ O _x by thermal treatment. <i>Physica C: Superconductivity and Its Applications</i> , 1988, 153-155, 373-374.	0.6	1
79	Octahedral clusters in molybdenum(II) and rhenium(III) chalcogenide chemistry. <i>Journal of the Less Common Metals</i> , 1988, 137, 241-265.	0.9	48
80	Structure and magnetic properties of two niobium chlorides with $\text{[Nb}_6\text{Cl}_{12}]^{n+}$ (n = 2, 3) units: KLuNb ₆ Cl ₁₈ and LuNb ₆ Cl ₁₈ . <i>Journal of the Less Common Metals</i> , 1988, 137, 323-332.	0.9	51
81	First cation radical mixed-valence hybrid salts of the paramagnetic octahedral cluster Nb ₆ Cl ₁₈ 3e ⁻ . 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- μ -2-chloro-octahedro-hexaniobate). <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 330-332.	2.0	19
82	Stabilization of Mo ₆ S ₈ by halogens; new superconducting compounds: Mo ₆ S ₆ Br ₂ , Mo ₆ S ₆ I ₂ . <i>Journal of Solid State Chemistry</i> , 1977, 22, 87-92.	1.4	99