

Pierric Lemoine

List of Publications by Year in descending order

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60
papers

1,191
citations

393982

19
h-index

414034

32
g-index

61
all docs

61
docs citations

61
times ranked

817
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Structure Classification of Copper-Based Sulfides as a Tool for the Design of Inorganic Functional Materials. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	25
2	Crystal Structure Classification of Copper-Based Sulfides as a Tool for the Design of Inorganic Functional Materials. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	6
3	A Tunable Structural Family with Ultralow Thermal Conductivity: Copper-Deficient $\text{Cu}_{1-x}\text{Bi}_x\text{S}_{3-x}$. <i>Journal of the American Chemical Society</i> , 2022, 144, 1846-1860.	3.6	15
4	NaGdS_2 : A Promising Sulfide for Cryogenic Magnetic Cooling. <i>Chemistry of Materials</i> , 2022, 34, 1829-1837.	3.2	18
5	Recent developments in high-performance thermoelectric sulphides: an overview of the promising synthetic colusites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 773-795.	2.7	33
6	On the Crystal Structures of the Polymorphs of Manganese(II) Chloride Tetrahydrate: $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$ and $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$. <i>Journal of Chemical Crystallography</i> , 2021, 51, 311-316.	0.5	4
7	Ordered sphalerite derivative $\text{Cu}_5\text{Sn}_2\text{S}_7$: a degenerate semiconductor with high carrier mobility in the Cu-Sn-S diagram. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10812-10826.	5.2	23
8	Revisiting properties of edge-bridged bromide tantalum clusters in the solid-state, in solution and vice versa: an intertwined experimental and modelling approach. <i>Dalton Transactions</i> , 2021, 50, 8002-8016.	1.6	11
9	Structural and electronic properties of the metal cluster-based compounds including high concentration of solvent molecules. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 751-758.	0.6	3
10	Key Role of $d^{0/10}$ Cations for the Design of Semiconducting Colusites: Large Thermoelectric ZT in $\text{Cu}_{26}\text{Ti}_2\text{Sb}_6\text{S}_{32}$ Compounds. <i>Chemistry of Materials</i> , 2021, 33, 3449-3456.	3.2	24
11	Synergistic Effect of Chemical Substitution and Insertion on the Thermoelectric Performance of $\text{Cu}_{26}\text{V}_2\text{Ge}_6\text{S}_{32}$ Colusite. <i>Inorganic Chemistry</i> , 2021, 60, 11364-11373.	1.9	7
12	Local-Disorder-Induced Low Thermal Conductivity in Degenerate Semiconductor $\text{Cu}_{22}\text{Sn}_{10}\text{S}_{32}$. <i>Inorganic Chemistry</i> , 2021, 60, 16273-16285.	1.9	14
13	Long-Range Cationic Order Collapse Triggered by S/Cl Mixed-Anion Occupancy Yields Enhanced Thermoelectric Properties in $\text{Cu}_5\text{Sn}_2\text{S}_7$. <i>Chemistry of Materials</i> , 2021, 33, 9425-9438.	3.2	11
14	Crystal Structure of a New Ordered form of Ammonium Hydrogen Succinate $\text{NH}_4\text{HC}_4\text{H}_4\text{O}_4$. <i>Journal of Chemical Crystallography</i> , 2020, 50, 35-40.	0.5	1
15	Thermal Stability of the Crystal Structure and Electronic Properties of the High Power Factor Thermoelectric Colusite $\text{Cu}_{26}\text{Cr}_2\text{Ge}_6\text{S}_{32}$. <i>Chemistry of Materials</i> , 2020, 32, 830-840.	3.2	19
16	Time-Resolved In Situ Neutron Diffraction Study of $\text{Cu}_{22}\text{Fe}_8\text{Ge}_4\text{S}_{32}$ Germanite: A Guide for the Synthesis of Complex Chalcogenides. <i>Chemistry of Materials</i> , 2020, 32, 8993-9000.	3.2	4
17	Transport properties and electronic density-of-states of Zn-doped colusite $\text{Cu}_{26}\text{Cr}_2\text{Ge}_6\text{S}_{32}$. <i>Applied Physics Letters</i> , 2020, 117, 173902.	1.5	4
18	Promoted crystallisation and cationic ordering in thermoelectric $\text{Cu}_{26}\text{V}_2\text{Sn}_6\text{S}_{32}$ colusite by eccentric vibratory ball milling. <i>Dalton Transactions</i> , 2020, 49, 15828-15836.	1.6	10

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19	Toppling the Transport Properties with Cationic Overstoichiometry in Thermoelectric Colusite: [Cu ₂₆ Cr ₂ Ge ₆] _{1+δ} S ₃₂ . ACS Applied Energy Materials, 2020, 3, 4180-4185.	2.5	14
20	A scalable synthesis route for multiscale defect engineering in the sustainable thermoelectric quaternary sulfide Cu ₂₆ V ₂ Sn ₆ S ₃₂ . Acta Materialia, 2020, 195, 229-239.	3.8	22
21	$\langle C \rangle$ u v $\langle V \rangle$	0.9	24
22	Copper-Rich Thermoelectric Sulfides: Size-Mismatch Effect and Chemical Disorder in the [Cu ₂₆ Cr ₂ Ge ₆ S ₃₂] (T = Cr, Mo, W) Colusites. Angewandte Chemie, 2019, 131, 15601-15609.	1.6	5
23	Copper-Rich Thermoelectric Sulfides: Size-Mismatch Effect and Chemical Disorder in the [Cu ₂₆ Cr ₂ Ge ₆ S ₃₂] (T = Cr, Mo, W) Colusites. Angewandte Chemie - International Edition, 2019, 58, 15455-15463.	7.2	36
24	Inorganic Niobium and Tantalum Octahedral Cluster Halide Compounds with Three-Dimensional Frameworks: A Review on Their Crystallographic and Electronic Structures. Structure and Bonding, 2019, , 143-190.	1.0	18
25	Tailoring Heterometallic Cluster Functional Building Blocks: Synthesis, Separation, Structural and DFT Studies of [Re ₆ Mo ₈ (CN) ₆] _n . Chemistry - A European Journal, 2019, 25, 15040-15045.	1.7	7
26	Crossover from Germanite to Renierite-Type Structures in Cu ₂₂ X ₂ Zn ₈ Ge ₄ S ₃₂ Thermoelectric Sulfides. ACS Applied Energy Materials, 2019, 2, 7679-7689.	2.5	17
27	XBi ₄ S ₇ (X = Mn, Fe): New Cost-Efficient Layered n-Type Thermoelectric Sulfides with Ultralow Thermal Conductivity. Advanced Functional Materials, 2019, 29, 1904112.	7.8	24
28	Supramolecular Anchoring of Octahedral Molybdenum Clusters onto Graphene and Their Synergies in Photocatalytic Water Reduction. Inorganic Chemistry, 2019, 58, 15443-15454.	1.9	34
29	Red-NIR luminescence of Mo ₆ monolayered assembly directly anchored on Au(001). Materials Horizons, 2019, 6, 1828-1833.	6.4	12
30	High Power Factors of Thermoelectric Colusites Cu ₂₆ T ₂ Ge ₆ S ₃₂ (T = Cr, Mo, W): Toward Functionalization of the Conductive Cu- δ -Network. Advanced Energy Materials, 2019, 9, 1803249.	10.2	51
31	Unexpected Magnetic Ordering on the Cr Substructure in UCu ₂ Si ₂ C and Structural Relationships in Quaternary U-Cr-Si-C Compounds. Inorganic Chemistry, 2018, 57, 2546-2557.	1.9	6
32	Stabilization of Ni ²⁺ dimers in hexacyano Mo ₆ cluster-based Prussian blue derivatives: experimental and theoretical investigations of magnetic properties. Dalton Transactions, 2018, 47, 1122-1130.	1.6	5
33	High-Performance Thermoelectric Bulk Colusite by Process Controlled Structural Disorder. Journal of the American Chemical Society, 2018, 140, 2186-2195.	6.6	98
34	Crystal structure of the new A ₂ SnTa ₆ X ₁₈ (A = K, Rb, Cs; X = Cl, Br) cluster compounds. Journal of Solid State Chemistry, 2018, 257, 72-79.	1.4	3
35	The Ouzo effect to selectively assemble molybdenum clusters into nanomarbles or nanocapsules with increased HER activity. Chemical Communications, 2018, 54, 13387-13390.	2.2	9
36	Low dimensional solids based on Mo ₆ cluster cyanides and Mn ²⁺ , Mn ³⁺ or Cd ²⁺ metal ions: crystal chemistry, magnetic and optical properties. CrystEngComm, 2018, 20, 3396-3408.	1.3	8

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37	Metal Atom Clusters as Building Blocks for Multifunctional Proton-Conducting Materials: Theoretical and Experimental Characterization. <i>Inorganic Chemistry</i> , 2018, 57, 9814-9825.	1.9	10
38	High temperature neutron powder diffraction study of the Cu ₁₂ Sb ₄ S ₁₃ and Cu ₄ Sn ₇ S ₁₆ phases. <i>Journal of Solid State Chemistry</i> , 2017, 247, 83-89.	1.4	23
39	Lattice and Valence Electronic Structures of Crystalline Octahedral Molybdenum Halide Clusters-Based Compounds, Cs ₂ [Mo ₆ X ₁₄] (X = Cl, Br, I), Studied by Density Functional Theory Calculations. <i>Inorganic Chemistry</i> , 2017, 56, 6234-6243.	1.9	16
40	From Cs ₂ Mo ₆ Cl ₁₄ to Cs ₂ Mo ₆ Cl ₁₄ ·H ₂ O and Vice Versa: Crystal Chemistry Investigations. <i>Journal of Cluster Science</i> , 2017, 28, 773-798.	1.7	13
41	Solvent-mediated purification of hexa-molybdenum cluster halide, Cs ₂ [Mo ₆ Cl ₁₄] for enhanced optical properties. <i>CrystEngComm</i> , 2017, 19, 6028-6038.	1.3	8
42	Designing a Thermoelectric Copper-Rich Sulfide from a Natural Mineral: Synthetic Germanite Cu ₂₂ Fe ₈ Ge ₄ S ₃₂ . <i>Inorganic Chemistry</i> , 2017, 56, 13376-13381.	1.9	40
43	Copper Hyper-Stoichiometry: The Key for the Optimization of Thermoelectric Properties in Stannoidite Cu _{8+x} Fe ₃ Sn ₂ S ₁₂ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 16454-16461.	1.5	42
44	Simulation of crystal and electronic structures of octahedral molybdenum cluster complex compound Cs ₂ [Mo ₆ Cl ₁₄] using various DFT functionals. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 753-759.	0.5	5
45	Electrophoretic Coating of Octahedral Molybdenum Metal Clusters for UV/NIR Light Screening. <i>Coatings</i> , 2017, 7, 114.	1.2	13
46	Structural analysis and thermoelectric properties of mechanically alloyed colusites. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7455-7463.	2.7	42
47	Thermoelectric Materials: A New Rapid Synthesis Process for Nontoxic and High-Performance Tetrahedrite Compounds. <i>Journal of the American Ceramic Society</i> , 2016, 99, 51-56.	1.9	62
48	Magnetic and magnetocaloric properties of Gd ₆ (Mn _{1-x} Cox) ₂₃ compounds (x ≈ 0.3). <i>Journal of Alloys and Compounds</i> , 2016, 680, 612-616.	2.8	6
49	Theoretical and experimental determination of the crystal structures of cesium molybdenum chloride. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 075502.	0.8	12
50	Up-scaled synthesis process of sulphur-based thermoelectric materials. <i>RSC Advances</i> , 2016, 6, 10044-10053.	1.7	22
51	Structural stability of the synthetic thermoelectric ternary and nickel-substituted tetrahedrite phases. <i>Journal of Alloys and Compounds</i> , 2015, 634, 253-262.	2.8	147
52	Low thermal conductivity in ternary Cu ₄ Sn ₇ S ₁₆ compound. <i>Acta Materialia</i> , 2015, 97, 180-190.	3.8	61
53	Crystal and electronic structures of the new quaternary RCr ₃ Si ₂ C (R=Y, Gd, Tm, Lu, U) compounds. <i>Journal of Solid State Chemistry</i> , 2013, 201, 293-301.	1.4	2
54	Microstructures et dureté des alliages ternaires de type M-30% Cr-O and 5% C contenant une quantité croissante de carbures de chrome. partie 3 : alliages à base de cobalt. <i>Annales De Chimie: Science Des Matériaux</i> , 2011, 36, 193-204.	0.2	2

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55	Microstructures et duretés d'alliages ternaires de type m-30%cr-0 a 5%c contenant une quantité croissante de carbures de chrome. partie 1 : alliages à base de nickel. Annales De Chimie: Science Des Matériaux, 2010, 35, 291-301.	0.2	3
56	High-temperature microstructures of ternary Co-30wt.% Cr-based alloys over the [0-2.0wt.%] carbon range. Journal of Alloys and Compounds, 2009, 467, 227-234.	2.8	12
57	Influence des carbures de chrome sur le comportement thermodynamique d'alliages ternaires base nickel, base cobalt et base fer à haute teneur en carbone. Annales De Chimie: Science Des Matériaux, 2009, 34, 61-76.	0.2	1
58	Microstructures at high temperature of Fe-30 wt.% Cr-xC Alloys with x varying from 0 to 2 wt.%. International Journal of Materials Research, 2008, 99, 964-972.	0.1	2
59	Study of the Behavior in Oxidation at High Temperature of Ni, Co and Fe-Base Alloys Containing Very High Fractions of Carbides. Materials Science Forum, 0, 595-598, 871-880.	0.3	7
60	Neutron Diffraction Study of the Hexagonal Perovskite-Type Compound LaCrGe_3 . Solid State Phenomena, 0, 194, 71-74.	0.3	15