

Pierric Lemoine

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4055014/publications.pdf>

Version: 2024-02-01

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	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
2	High-Performance Thermoelectric Bulk Colusite by Process Controlled Structural Disorder. <i>Journal of the American Chemical Society</i> , 2018, 140, 2186-2195.	6.6	98
3	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
4	Low thermal conductivity in ternary Cu ₄ Sn ₇ S ₁₆ compound. <i>Acta Materialia</i> , 2015, 97, 180-190.	3.8	61
5	High Power Factors of Thermoelectric Colusites Cu ₂₆ Ti ₂ Ge ₆ S ₃₂ (Ti = Cr, Mo, W): Toward Functionalization of the Conductive "Cu" Network. <i>Advanced Energy Materials</i> , 2019, 9, 1803249.	10.2	51
6	Structural analysis and thermoelectric properties of mechanically alloyed colusites. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7455-7463.	2.7	42
7	Copper Hyper-Stoichiometry: The Key for the Optimization of Thermoelectric Properties in Stannoidite Cu ₈ X ₃ Fe ₃ Sn ₂ S ₁₂ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 16454-16461.	1.5	42
8	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
9	Copper-Rich Thermoelectric Sulfides: Size-Mismatch Effect and Chemical Disorder in the [TiS ₄]Cu ₆ Complexes of Cu ₂₆ Ti ₂ Ge ₆ S ₃₂ (Ti=Cr, Mo, W) Colusites. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15455-15463.	7.2	36
10	Supramolecular Anchoring of Octahedral Molybdenum Clusters onto Graphene and Their Synergies in Photocatalytic Water Reduction. <i>Inorganic Chemistry</i> , 2019, 58, 15443-15454.	1.9	34
11	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
12	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
13	XBi ₄ S ₇ (X = Mn, Fe): New Cost-Efficient Layered n-Type Thermoelectric Sulfides with Ultralow Thermal Conductivity. <i>Advanced Functional Materials</i> , 2019, 29, 1904112.	7.8	24
14	Key Role of d ⁰ and d ¹⁰ Cations for the Design of Semiconducting Colusites: Large Thermoelectric ZT in Cu ₂₆ Ti ₂ Sb ₆ S ₃₂ Compounds. <i>Chemistry of Materials</i> , 2021, 33, 3449-3456. https://doi.org/10.1021/acs.chemmater.1c01546	3.2	24
15	$C_{26}Ti_2Sb_6S_{32}$ $U_{26}V_2S_{32}$	0.9	24
16	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
17	Ordered sphalerite derivative Cu ₅ Sn ₂ 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
18	Up-scaled synthesis process of sulphur-based thermoelectric materials. <i>RSC Advances</i> , 2016, 6, 10044-10053.	1.7	22

#	ARTICLE	IF	CITATIONS
19	A scalable synthesis route for multiscale defect engineering in the sustainable thermoelectric quaternary sulfide $\text{Cu}_{26}\text{V}_2\text{Sn}_6\text{S}_{32}$. <i>Acta Materialia</i> , 2020, 195, 229-239.	3.8	22
20	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
21	Inorganic Niobium and Tantalum Octahedral Cluster Halide Compounds with Three-Dimensional Frameworks: A Review on Their Crystallographic and Electronic Structures. <i>Structure and Bonding</i> , 2019, , 143-190.	1.0	18
22	NaGdS_2 : A Promising Sulfide for Cryogenic Magnetic Cooling. <i>Chemistry of Materials</i> , 2022, 34, 1829-1837.	3.2	18
23	Crossover from Germanite to Renierite-Type Structures in $\text{Cu}_{22}\text{Zn}_x\text{Fe}_8\text{Ge}_4\text{S}_{32}$ Thermoelectric Sulfides. <i>ACS Applied Energy Materials</i> , 2019, 2, 7679-7689.	2.5	17
24	Lattice and Valence Electronic Structures of Crystalline Octahedral Molybdenum Halide Clusters-Based Compounds, $\text{Cs}_2[\text{Mo}_6\text{X}_{14}]$ (X = Cl, Br, I), Studied by Density Functional Theory Calculations. <i>Inorganic Chemistry</i> , 2017, 56, 6234-6243.	1.9	16
25	Neutron Diffraction Study of the Hexagonal Perovskite-Type Compound LaCrGe_3 . <i>Solid State Phenomena</i> , 0, 194, 71-74.	0.3	15
26	A Tunable Structural Family with Ultralow Thermal Conductivity: Copper-Deficient $\text{Cu}_{1-x}\text{Pb}_x\text{Bi}_{1+x}\text{S}_6$. <i>Journal of the American Chemical Society</i> , 2022, 144, 1846-1860.	3.6	15
27	Toppling the Transport Properties with Cationic Overstoichiometry in Thermoelectric Colusite: $[\text{Cu}_{26}\text{Cr}_2\text{Ge}_6]^{1+}\text{S}_{32}$. <i>ACS Applied Energy Materials</i> , 2020, 3, 4180-4185.	2.5	14
28	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
29	From $\text{Cs}_2\text{Mo}_6\text{Cl}_{14}$ to $\text{Cs}_2\text{Mo}_6\text{Cl}_{14}\cdot\text{H}_2\text{O}$ and Vice Versa: Crystal Chemistry Investigations. <i>Journal of Cluster Science</i> , 2017, 28, 773-798.	1.7	13
30	Electrophoretic Coating of Octahedral Molybdenum Metal Clusters for UV/NIR Light Screening. <i>Coatings</i> , 2017, 7, 114.	1.2	13
31	High-temperature microstructures of ternary Co-30wt.% Cr-based alloys over the [0-2.0wt.%] carbon range. <i>Journal of Alloys and Compounds</i> , 2009, 467, 227-234.	2.8	12
32	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
33	Red-NIR luminescence of Mo_6 monolayered assembly directly anchored on Au(001). <i>Materials Horizons</i> , 2019, 6, 1828-1833.	6.4	12
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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. Dalton Transactions, 2020, 49, 15828-15836.	1.6	10
38	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
39	Solvent-mediated purification of hexa-molybdenum cluster halide, $\text{Cs}_2[\text{Mo}_6\text{Cl}_{14}]$ for enhanced optical properties. CrystEngComm, 2017, 19, 6028-6038.	1.3	8
40	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
41	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
42	Tailoring Heterometallic Cluster Functional Building Blocks: Synthesis, Separation, Structural and DFT Studies of $[\text{Re}_6\text{xMo}_x\text{Se}_8(\text{CN})_6]_n$. Chemistry - A European Journal, 2019, 25, 15040-15045.	1.7	7
43	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. Inorganic Chemistry, 2021, 60, 11364-11373.	1.9	7
44	Magnetic and magnetocaloric properties of $\text{Gd}_6(\text{Mn}_{1-x}\text{Co}_x)_23$ compounds ($x \approx 0.3$). Journal of Alloys and Compounds, 2016, 680, 612-616.	2.8	6
45	Unexpected Magnetic Ordering on the Cr Substructure in $\text{UCr}_2\text{Si}_2\text{C}$ and Structural Relationships in Quaternary U-Cr-Si-C Compounds. Inorganic Chemistry, 2018, 57, 2546-2557.	1.9	6
46	Crystal Structure Classification of Copper-Based Sulfides as a Tool for the Design of Inorganic Functional Materials. Angewandte Chemie, 2022, 134, .	1.6	6
47	Simulation of crystal and electronic structures of octahedral molybdenum cluster complex compound $\text{Cs}_2[\text{Mo}_6\text{Cl}_{14}]$ using various DFT functionals. Journal of the Ceramic Society of Japan, 2017, 125, 753-759.	0.5	5
48	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
49	Copper-Rich Thermoelectric Sulfides: Size Mismatch Effect and Chemical Disorder in the $[\text{Cu}_4\text{S}_4]\text{Cu}_6$ Complexes of $\text{Cu}_{26}\text{V}_2\text{Ge}_6\text{S}_{32}$ ($\text{Cu}_4\text{S}_4 = \text{Cr, Mo, W}$) Colusites. Angewandte Chemie, 2019, 131, 15601-15609.	1.6	5
50	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. Chemistry of Materials, 2020, 32, 8993-9000.	3.2	4
51	Transport properties and electronic density-of-states of Zn-doped colusite $\text{Cu}_{26}\text{Cr}_2\text{Ge}_6\text{S}_{32}$. Applied Physics Letters, 2020, 117, 173902.	1.5	4
52	On the Crystal Structures of the Polymorphs of Manganese(II) Chloride Tetrahydrate: $\hat{1}\pm\text{-MnCl}_2\cdot 4\text{H}_2\text{O}$ and $\hat{1}^2\text{-MnCl}_2\cdot 4\text{H}_2\text{O}$. Journal of Chemical Crystallography, 2021, 51, 311-316.	0.5	4
53	Crystal structure of the new $A_2\text{SnTa}_6\text{X}_{18}$ ($A = \text{K, Rb, Cs; X} = \text{Cl, Br}$) cluster compounds. Journal of Solid State Chemistry, 2018, 257, 72-79.	1.4	3
54	Structural and electronic properties of the metal cluster-based compounds including high concentration of solvent molecules. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 751-758.	0.6	3

#	ARTICLE	IF	CITATIONS
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	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
57	Crystal and electronic structures of the new quaternary RCr ₃ Si ₂ C (R=Y, Gd, Tm, Lu, U) compounds. Journal of Solid State Chemistry, 2013, 201, 293-301.	1.4	2
58	Microstructures et duretés d'alliages ternaires de type M-30% Cr-0 and 5%C contenant une quantité croissante de carbures de chrome. partie 3 : alliages à base de cobalt. Annales De Chimie: Science Des Matériaux, 2011, 36, 193-204.	0.2	2
59	Crystal Structure of a New Ordered form of Ammonium Hydrogen Succinate NH ₄ HC ₄ H ₄ O ₄ . Journal of Chemical Crystallography, 2020, 50, 35-40.	0.5	1
60	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