

Paz Vaqueiro

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Tunable Structural Family with Ultralow Thermal Conductivity: Copper-Deficient $\text{Cu}_{1-x}\text{Pb}_x\text{Bi}_{1+x}\text{S}_3$. <i>Journal of the American Chemical Society</i> , 2022, 144, 1846-1860.	13.7	15
2	Key properties of inorganic thermoelectric materialsâ€”tables (version 1). <i>JPhys Energy</i> , 2022, 4, 022002.	5.3	51
3	The impact of a magnetic ion on the thermoelectric properties of copper-rich quaternary selenides. <i>JPhys Energy</i> , 2022, 4, 034001.	5.3	1
4	Tin-Substituted Chalcopyrite: An <i>n</i> -Type Sulfide with Enhanced Thermoelectric Performance. <i>Chemistry of Materials</i> , 2022, 34, 5860-5873.	6.7	12
5	Talnakhite: A potential <i>n</i> -type thermoelectric sulphide with low thermal conductivity. <i>Journal of Solid State Chemistry</i> , 2022, 314, 123425.	2.9	3
6	Multiple Roles of 1,4-Diazabicyclo[2.2.2]octane in the Solvothermal Synthesis of Iodobismuthates. <i>Inorganic Chemistry</i> , 2021, 60, 5333-5342.	4.0	8
7	Insights into the Mechanochemical Synthesis of MOF-74. <i>Crystal Growth and Design</i> , 2021, 21, 3047-3055.	3.0	51
8	Crystal structure of $\text{C}_9\text{H}_{17}\text{N}_2\text{[Bi}_2\text{I}_9]$. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2021, 77, 899-902.	0.5	3
9	A Discrete Ligand-Free T3 Supertetrahedral Cluster of Gallium Sulfide. <i>Molecules</i> , 2021, 26, 5415.	3.8	2
10	Chapter 1. Synthesis and Property Measurements of Thermoelectric Materials. <i>Inorganic Materials Series</i> , 2021, , 1-52.	0.7	5
11	The onset of copper-ion mobility and the electronic transition in the kesterite $\text{Cu}_2\text{ZnGeSe}_4$. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27493-27502.	10.3	3
12	Improved Thermoelectric Performance through Double Substitution in Shandite-Type Mixed-Metal Sulfides. <i>ACS Applied Energy Materials</i> , 2020, 3, 2168-2174.	5.1	17
13	Origin of Low Thermal Conductivity in In_4Se_3 . <i>ACS Applied Energy Materials</i> , 2020, 3, 12549-12556.	5.1	14
14	Rapid synthesis of chalcogenides by ball milling: Preparation and characterisation of Bi_2S_3 and Bi_2Se_3 . <i>Journal of Solid State Chemistry</i> , 2020, 291, 121625.	2.9	15
15	Jahnâ€”Teller Driven Electronic Instability in Thermoelectric Tetrahedrite. <i>Advanced Functional Materials</i> , 2020, 30, 1909409.	14.9	30
16	Understanding the origin of disorder in kesterite-type chalcogenides A_2ZnBQ_4 (A = Cu, Ag; B = Sn, Ge; Q = S, Se): the influence of inter-layer interactions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19311-19317.	2.8	16
17	The impact of manganese substitution on the structure and properties of tetrahedrite. <i>Journal of Applied Physics</i> , 2019, 126, 045107.	2.5	8
18	Thermoelectric Properties of Minerals with the Mawsonite Structure. <i>ACS Applied Energy Materials</i> , 2019, 2, 8068-8078.	5.1	9

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19	High Thermoelectric Performance of Bornite through Control of the Cu(II) Content and Vacancy Concentration. Chemistry of Materials, 2018, 30, 456-464.	6.7	68
20	Skutterudite Thermoelectric Modules with High Volume-Power-Density: Scalability and Reproducibility. ACS Applied Energy Materials, 2018, 1, 6609-6618.	5.1	22
21	A new class of hybrid super-supertetrahedral cluster and its assembly into a five-fold interpenetrating network. Dalton Transactions, 2017, 46, 3816-3819.	3.3	26
22	The effect of electron and hole doping on the thermoelectric properties of shandite-type $\text{Co}_3\text{Sn}_2\text{S}_2$. Journal of Solid State Chemistry, 2017, 251, 204-210.	2.9	26
23	Enhancing the thermoelectric properties of single and double filled p-type skutterudites synthesized by an up-scaled ball-milling process. Journal of Alloys and Compounds, 2017, 695, 3598-3604.	5.5	26
24	The Influence of Mobile Copper Ions on the Glass-Like Thermal Conductivity of Copper-Rich Tetrahedrites. Chemistry of Materials, 2017, 29, 4080-4090.	6.7	66
25	Thermoelectric Materials: A New Rapid Synthesis Process for Nontoxic and High-Performance Tetrahedrite Compounds. Journal of the American Ceramic Society, 2016, 99, 51-56.	3.8	62
26	Layered oxychalcogenides: Structural chemistry and thermoelectric properties. Journal of Materiomics, 2016, 2, 131-140.	5.7	39
27	Electron and phonon transport in shandite-structured $\text{Ni}_3\text{Sn}_2\text{S}_2$. Physical Review B, 2016, 94, .	3.2	12
28	Up-scaled synthesis process of sulphur-based thermoelectric materials. RSC Advances, 2016, 6, 10044-10053.	3.6	22
29	The impact of charge transfer and structural disorder on the thermoelectric properties of cobalt intercalated TiS_2 . Journal of Materials Chemistry C, 2016, 4, 1871-1880.	5.5	32
30	Thermoelectric properties of TiS_2 mechanically alloyed compounds. Journal of the European Ceramic Society, 2016, 36, 1183-1189.	5.7	37
31	Chalcogenide Thermoelectric Materials. RSC Energy and Environment Series, 2016, , 27-59.	0.5	8
32	The role of copper in the thermal conductivity of thermoelectric oxychalcogenides: do lone pairs matter?. Physical Chemistry Chemical Physics, 2015, 17, 31735-31740.	2.8	74
33	Structural complexity in indium selenides prepared using bicyclic amines as structure-directing agents. Dalton Transactions, 2015, 44, 1592-1600.	3.3	10
34	Structural stability of the synthetic thermoelectric ternary and nickel-substituted tetrahedrite phases. Journal of Alloys and Compounds, 2015, 634, 253-262.	5.5	147
35	Synthesis, characterisation and thermoelectric properties of the oxytelluride $\text{Bi}_2\text{O}_2\text{Te}$. Journal of Solid State Chemistry, 2015, 226, 219-223.	2.9	67
36	Interplay of Metal-Atom Ordering, Fermi Level Tuning, and Thermoelectric Properties in Cobalt Shandites $\text{Co}_3\text{M}_2\text{S}_2$ (M = Sn, In). Chemistry of Materials, 2015, 27, 3946-3956.	6.7	47

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37	Ball milling as an effective route for the preparation of doped bornite: synthesis, stability and thermoelectric properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10624-10629.	5.5	56
38	Ordered-Defect Sulfides as Thermoelectric Materials. <i>Journal of Electronic Materials</i> , 2014, 43, 2029-2034.	2.2	23
39	Electron doping and phonon scattering in $Ti_{1+x}S_2$ thermoelectric compounds. <i>Acta Materialia</i> , 2014, 78, 86-92.	7.9	70
40	Thermoelectric properties of $BiOCu_{1-x}M_xSe$ (M = Cd and Zn). <i>Semiconductor Science and Technology</i> , 2014, 29, 064002.	2.0	16
41	Synthesis and Characterization of Inorganic-Organic Hybrid Gallium Selenides. <i>Inorganic Chemistry</i> , 2014, 53, 8845-8847.	4.0	11
42	A copper-containing oxytelluride as a promising thermoelectric material for waste heat recovery. <i>Journal of Materials Chemistry A</i> , 2013, 1, 520-523.	10.3	59
43	Polymorphism and optical properties in $[NH_4][InSe_2]$. <i>Journal of Solid State Chemistry</i> , 2013, 204, 159-165.	2.9	6
44	High-temperature order-disorder transitions in the skutterudites $CoGe_{1.5}Q_{1.5}$ (Q=S, Te). <i>Journal of Solid State Chemistry</i> , 2013, 198, 525-531.	2.9	7
45	$Co_3M_2S_2$ (M = Sn, In) shandites as tellurium-free thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6553.	10.3	33
46	Fabrication and Evaluation of a Skutterudite-Based Thermoelectric Module for High-Temperature Applications. <i>Journal of Electronic Materials</i> , 2013, 42, 1369-1374.	2.2	36
47	Synthesis, structural characterisation and thermoelectric properties of $Bi_{1-x}Pb_xOCuSe$. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12270.	10.3	47
48	Synthesis and thermoelectric properties of the new skutterudites $Yb_xFe_2Ni_2Sb_{12}$ (0 ≤ x ≤ 0.4)., 2012, , .		0
49	Thermoelectric exhaust-gas energy recovery: An integrated approach. , 2012, , .		2
50	$[C_7H_{10}N][In_3Se_5]$: A Layered Selenide with Two Indium Coordination Environments. <i>Inorganic Chemistry</i> , 2012, 51, 7404-7409.	4.0	5
51	Synthesis, characterization and physical properties of the skutterudites $Yb_xFe_2Ni_2Sb_{12}$ (0 ≤ x ≤ 0.4). <i>Journal of Solid State Chemistry</i> , 2012, 193, 36-41.	2.9	18
52	Solvothermal Synthesis of One-dimensional Chalcogenides Containing Group 13 Elements. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 2526-2531.	1.2	11
53	$Na_5(Ga_4S)(Ga_4S)_3 \cdot 6H_2O$: A three-dimensional thiogallate containing a novel octahedral building block. <i>Solid State Sciences</i> , 2011, 13, 1137-1142.	3.2	7
54	Synthesis, Characterisation and Magnetic Properties of a One-Dimensional Iron(II) Coordination Polymer. <i>Journal of Chemical Crystallography</i> , 2011, 41, 601-605.	1.1	1

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55	Hydrothermal synthesis of [C ₆ H ₁₆ N ₂][In ₂ Se ₃ (Se ₂): A new one-dimensional indium selenide. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1800-1804.	2.9	22
56	Recent developments in nanostructured materials for high-performance thermoelectrics. <i>Journal of Materials Chemistry</i> , 2010, 20, 9577.	6.7	163
57	Arrays of Chiral Nanotubes and a Layered Coordination Polymer Containing Gallium-Sulfide Supertetrahedral Clusters. <i>Chemistry - A European Journal</i> , 2010, 16, 4462-4465.	3.3	50
58	A synchrotron powder X-ray diffraction study of the skutterudite-related phases AB _{1.5} Te _{1.5} (A = Co, Rh, Ir; B = Ge, Sn). <i>Dalton Transactions</i> , 2010, 39, 1020-1026.	3.3	15
59	Hybrid materials through linkage of chalcogenide tetrahedral clusters. <i>Dalton Transactions</i> , 2010, 39, 5965.	3.3	65
60	A powder neutron diffraction study of the metallic ferromagnet Co ₃ Sn ₂ S ₂ . <i>Solid State Sciences</i> , 2009, 11, 513-518.	3.2	81
61	Synthesis and characterisation of the anion-ordered tellurides MGeTe (M=Co, Rh). <i>Solid State Sciences</i> , 2009, 11, 1077-1082.	3.2	10
62	Ionothermal synthesis of the mixed-anion material, Ba ₃ Cl ₄ CO ₃ . <i>Journal of Solid State Chemistry</i> , 2009, 182, 2333-2337.	2.9	4
63	Compositional control of electrical transport properties in the new series of defect thiospinels, Ga _{1-x} GexV ₄ S ₈ (0 ≤ x ≤ 1). <i>Journal of Solid State Chemistry</i> , 2009, 182, 2806-2814.	2.9	6
64	Ternary Erbium Chromium Sulfides: Structural Relationships and Magnetic Properties. <i>Inorganic Chemistry</i> , 2009, 48, 1284-1292.	4.0	10
65	Zero-Dimensional Units of Ligand-Bridged Gallium-Sulfide Supertetrahedra. <i>Inorganic Chemistry</i> , 2009, 48, 810-812.	4.0	39
66	Co ₃ (SO ₄) ₃ (OH) ₂ [enH ₂]: A New S = 3/2 Kagome-Type Layered Sulfate with a Unique Connectivity. <i>Chemistry of Materials</i> , 2009, 21, 4102-4104.	6.7	10
67	Structure and electrical transport properties of the ordered skutterudites MGe _{1.5} Sn _{1.5} (M=Co, Rh, Ir). <i>Journal of Solid State Chemistry</i> , 2008, 181, 768-776.	2.9	29
68	Gallium-Sulfide Supertetrahedral Clusters as Building Blocks of Covalent Organic-Inorganic Networks. <i>Journal of the American Chemical Society</i> , 2008, 130, 9630-9631.	13.7	106
69	A Three-Dimensional Open-Framework Indium Selenide: [C ₇ H ₁₀ N][In ₉ Se ₁₄]. <i>Inorganic Chemistry</i> , 2008, 47, 20-22.	4.0	44
70	Organically-functionalised supertetrahedra as building blocks for hybrid materials. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1148, 1.	0.1	0
71	Bis(tetraphenylphosphonium) tetrasulfidotungstate(VI). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, m574-m574.	0.2	2
72	Ternary Skutterudites: Anion Ordering and Thermoelectric Properties. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1044, 1.	0.1	2

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73	Thermoelectric Properties of Mixed-Metal Tellurides. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	0
74	[Ga ₁₀ S ₁₆ (NC ₇ H ₉) ₄] ₂ : a hybrid supertetrahedral nanocluster. Chemical Communications, 2007, , 3282.	4.1	56
75	Simultaneous diffraction and resistance measurements of metal sulphides. Journal of Physics and Chemistry of Solids, 2007, 68, 1052-1056.	4.0	1
76	catena-Poly[piperazinium di-1/4-sulfido-gallium]. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m1700-m1700.	0.2	3
77	Ethylenediammonium tetraaquabis(sulfato)cobaltate(II). Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2643-m2644.	0.2	0
78	Three-dimensional gallium sulphide open frameworks. Journal of Physics and Chemistry of Solids, 2007, 68, 1239-1243.	4.0	46
79	From One-Dimensional Chains to Three-Dimensional Networks: A Solvothermal Synthesis of Thiogallates in Ethylenediamine. Inorganic Chemistry, 2006, 45, 4150-4156.	4.0	55
80	3-[4-(3-Aminopropyl)piperazin-1-yl]propan-1-aminium chloride. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o2632-o2633.	0.2	1
81	Solvothermal synthesis and characterisation of new one-dimensional indium and gallium sulphides: [C ₁₀ N ₄ H ₂₆] _{0.5} [InS ₂] and [C ₁₀ N ₄ H ₂₆] _{0.5} [GaS ₂]. Journal of Solid State Chemistry, 2006, 179, 302-307.	2.9	31
82	Structure and thermoelectric properties of the ordered skutterudite CoGe _{1.5} Te _{1.5} . Journal of Solid State Chemistry, 2006, 179, 2047-2053.	2.9	44
83	[Co(en) ₃][Sb ₁₂ S ₁₉]: A New Antimony Sulfide with a Zeolite-Like Structure Containing One-Dimensional Channels.. ChemInform, 2005, 36, no.	0.0	0
84	Muon spin rotation study of magnetism in electron-doped chromium sulfide. Physical Review B, 2005, 72, .	3.2	3
85	Thermopower across the insulator-metal divide in NiCr ₂ xVxS ₄ (0 ≤ x ≤ 1/2). Physical Review B, 2005, 71, .	3.2	6
86	Structure and magnetism in synthetic pyrrhotite Fe ₇ S ₈ : A powder neutron-diffraction study. Physical Review B, 2004, 70, .	3.2	116
87	Templated Synthesis of the Novel Layered Silver Antimony Sulfides [H ₃ NCH ₂ CH ₂ NH ₂][Ag ₂ SbS ₃] and [H ₃ NCH ₂ CH ₂ NH ₂] ₂ [Ag ₅ Sb ₃ S ₈]. ChemInform, 2004, 35, no.	0.0	0
88	Structure-property relationships in ordered-defect sulphides. Solid State Ionics, 2004, 172, 469-475.	2.7	7
89	Solvothermal synthesis of novel antimony sulphides containing 6Sb ₄ S ₇ units. Solid State Ionics, 2004, 172, 601-605.	2.7	42
90	Ferromagnetic resonance and magnetic properties of single-domain particles of Y ₃ Fe ₅ O ₁₂ prepared by sol-gel method. Physica B: Condensed Matter, 2004, 354, 104-107.	2.7	44

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91	The influence of intralayer structural distortions on the electrical and magnetic properties of $V_{1+x}Mo_2S_4$ ($0 \leq x \leq 2$). <i>Journal of Materials Chemistry</i> , 2004, 14, 3051-3057.	6.7	6
92	[Co(en) ₃][Sb ₁₂ S ₁₉]: A New Antimony Sulfide with a Zeolite-like Structure Containing One-Dimensional Channels. <i>Inorganic Chemistry</i> , 2004, 43, 7963-7965.	4.0	85
93	[Cr(C ₆ H ₁₈ N ₄)(SbS ₃)], a chromium complex containing an unusual bidentate SbS ₃ ligand. <i>Polyhedron</i> , 2003, 22, 2839-2845.	2.2	32
94	Templated Synthesis of the Novel Layered Silver Antimony Sulfides [H ₃ NCH ₂ CH ₂ NH ₂][Ag ₂ SbS ₃] and [H ₃ NCH ₂ CH ₂ NH ₂] ₂ [Ag ₅ Sb ₃ S ₈]. <i>Inorganic Chemistry</i> , 2003, 42, 7846-7851.	4.0	72
95	Fine Structure and Optical Properties of Cholesteric Films Prepared from Cellulose 4-Methylphenyl Urethane/N-Vinyl Pyrrolidinone Solutions. <i>Macromolecules</i> , 2002, 35, 7354-7360.	4.8	20
96	An Antimony Sulfide with Copper Pillars: [C ₄ H ₁₂ N ₂] _{0.5} [CuSb ₆ S ₁₀]. <i>Chemistry of Materials</i> , 2002, 14, 1220-1224.	6.7	86
97	Structural Distortions of the Metal Dichalcogenide Units in AMo ₂ S ₄ (A = V, Cr, Fe, Co) and Magnetic and Electrical Properties. <i>Chemistry of Materials</i> , 2002, 14, 1201-1209.	6.7	27
98	SANS studies of solutions and molecular composites prepared from cellulose tricarbonyl. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s472-s474.	2.3	1
99	Particle size effects on magnetic properties of yttrium iron garnets prepared by a sol-gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 247, 92-98.	2.3	205
100	Colossal magnetoresistance in the layered chromium sulfide Cr ₂ S ₃ _x ($x=0.08$). <i>Physical Review B</i> , 2001, 64, .	3.2	36
101	Pressure-induced phase transitions in chromium thiospinels. <i>Physical Review B</i> , 2001, 63, .	3.2	14
102	The charge-transfer complexation of tetrathiafulvalene with paraquat and its oligomeric derivatives. <i>Tetrahedron Letters</i> , 2001, 42, 5089-5091.	1.4	11
103	Order-disorder transitions in NiCr ₂ S ₄ . <i>Physica B: Condensed Matter</i> , 2000, 276-278, 238-239.	2.7	6
104	Structural, Magnetic, and Electronic Properties of Vanadium-Substituted Nickel Chromium Sulfide. <i>Chemistry of Materials</i> , 2000, 12, 1034-1041.	6.7	12
105	Structures and Properties of New Ordered Defect Phases in the Vanadium Chromium Sulfide System. <i>Chemistry of Materials</i> , 2000, 12, 2705-2714.	6.7	15
106	Phase behaviour, magnetic and electronic properties in the series Co _{1-x} Ni _x Cr ₂ S ₄ ($0 \leq x < 1$). <i>Journal of Materials Chemistry</i> , 2000, 10, 2381-2387.	6.7	7
107	A Powder Neutron Diffraction Study of the Magnetic Structure of FeV ₂ S ₄ . <i>Journal of Solid State Chemistry</i> , 1999, 144, 372-378.	2.9	16
108	High temperature neutron diffraction studies of phase transformations in NiCr ₂ S ₄ . <i>Journal of Materials Chemistry</i> , 1999, 9, 2859-2863.	6.7	11

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109	Cation partitioning in ternary vanadium sulfides $2S_4$ (A=Ti, Cr, Fe, Ni). Journal of Materials Chemistry, 1999, 9, 485-492.	6.7	21
110	Structural distortions and the insulator to metal transition in $NiCr_2 \times V_x S_4$. Chemical Communications, 1999, , 753-754.	4.1	1
111	Synthesis of yttrium aluminium garnet by the citrate gel process. Journal of Materials Chemistry, 1998, 8, 161-163.	6.7	91
112	Synthesis of yttrium iron garnet nanoparticles via coprecipitation in microemulsion. Journal of Materials Chemistry, 1997, 7, 501-504.	6.7	50
113	Influence of Complexing Agents and pH on Yttrium Iron Garnet Synthesized by the Sol-Gel Method. Chemistry of Materials, 1997, 9, 2836-2841.	6.7	144
114	Annealing dependence of magnetic properties in nanostructured particles of yttrium iron garnet prepared by citrate gel process. Journal of Magnetism and Magnetic Materials, 1997, 169, 56-68.	2.3	72
115	Synthesis and Characterization of Yttrium Iron Garnet Nanoparticles. Journal of Solid State Chemistry, 1996, 126, 161-168.	2.9	84
116	Structural and magnetic characterization of YIG particles prepared using microemulsions. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 2129-2130.	2.3	6