Paz Vaqueiro

List of Publications by Year
in descending order

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116	3,707	94415	144002
papers	citations	37 h-index	57 g-index

136	136	136	3374
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Particle size effects on magnetic properties of yttrium iron garnets prepared by a solâ€“gel method. Journal of Magnetism and Magnetic Materials, 2002, 247, 92-98.	2.3	205
2	Recent developments in nanostructured materials for high-performance thermoelectrics. Journal of Materials Chemistry, 2010, 20, 9577.	6.7	163
3	Structural stability of the synthetic thermoelectric ternary and nickel-substituted tetrahedrite phases. Journal of Alloys and Compounds, 2015, 634, 253-262.	5.5	147
4	Influence of Complexing Agents and pH on Yttriumâ^'Iron Garnet Synthesized by the Solâ^'Gel Method. Chemistry of Materials, 1997, 9, 2836-2841.	6.7	144
5	Structure and magnetism in synthetic pyrrhotiteFe7S8: A powder neutron-diffraction study. Physical Review B, 2004, 70, .	3.2	116
6	Galliumâ^'Sulfide Supertetrahedral Clusters as Building Blocks of Covalent Organicâ^'Inorganic Networks. Journal of the American Chemical Society, 2008, 130, 9630-9631.	13.7	106
7	Synthesis of yttrium aluminium garnet by the citrate gel process. Journal of Materials Chemistry, 1998, 8, 161-163.	6.7	91
8	An Antimony Sulfide with Copper Pillars:Â [C4H12N2]0.5[CuSb6S10]. Chemistry of Materials, 2002, 14, 1220-1224.	6.7	86
9	[Co(en)3][Sb12S19]:Â A New Antimony Sulfide with a Zeolite-like Structure Containing One-Dimensional Channels. Inorganic Chemistry, 2004, 43, 7963-7965.	4.0	85
10	Synthesis and Characterization of Yttrium Iron Garnet Nanoparticles. Journal of Solid State Chemistry, 1996, 126, 161-168.	2.9	84
11	A powder neutron diffraction study of the metallic ferromagnet Co3Sn2S2. Solid State Sciences, 2009, 11, 513-518.	3.2	81
12	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
13	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
14	Templated Synthesis of the Novel Layered Silverâ^'Antimony Sulfides [H3NCH2CH2NH2][Ag2SbS3] and [H3NCH2CH2NH2]2[Ag5Sb3S8]. Inorganic Chemistry, 2003, 42, 7846-7851.	4.0	72
15	Electron doping and phonon scattering in Ti 1+ x S 2 thermoelectric compounds. Acta Materialia, 2014, 78, 86-92.	7.9	70
16	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
17	Synthesis, characterisation and thermoelectric properties of the oxytelluride Bi2O2Te. Journal of Solid State Chemistry, 2015, 226, 219-223.	2.9	67
18	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

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19	Hybrid materials through linkage of chalcogenide tetrahedral clusters. Dalton Transactions, 2010, 39, 5965.	3.3	65
20	Thermoelectric Materials: A New Rapid Synthesis Process for Nontoxic and Highâ€Performance Tetrahedrite Compounds. Journal of the American Ceramic Society, 2016, 99, 51-56.	3.8	62
21	A copper-containing oxytelluride as a promising thermoelectric material for waste heat recovery. Journal of Materials Chemistry A, 2013, 1, 520-523.	10.3	59
22	[Ga10S16(NC7H9)4]2â€“: a hybrid supertetrahedral nanocluster. Chemical Communications, 2007, , 3282.	4.1	56
23	Ball milling as an effective route for the preparation of doped bornite: synthesis, stability and thermoelectric properties. Journal of Materials Chemistry C, 2015, 3, 10624-10629.	5.5	56
24	From One-Dimensional Chains to Three-Dimensional Networks:Â Solvothermal Synthesis of Thiogallates in Ethylenediamine. Inorganic Chemistry, 2006, 45, 4150-4156.	4.0	55
25	Insights into the Mechanochemical Synthesis of MOF-74. Crystal Growth and Design, 2021, 21, 3047-3055.	3.0	51
26	Key properties of inorganic thermoelectric materialsâ€”tables (version 1). JPhys Energy, 2022, 4, 022002.	5.3	51
27	Synthesis of yttrium iron garnet nanoparticlesvia coprecipitation in microemulsion. Journal of Materials Chemistry, 1997, 7, 501-504.	6.7	50
28	Arrays of Chiral Nanotubes and a Layered Coordination Polymer Containing Galliumâ€“Sulfide Supertetrahedral Clusters. Chemistry - A European Journal, 2010, 16, 4462-4465.	3.3	50
29	Synthesis, structural characterisation and thermoelectric properties of Bi1â^'xPbxOCuSe. Journal of Materials Chemistry A, 2013, 1, 12270.	10.3	47
30	Interplay of Metal-Atom Ordering, Fermi Level Tuning, and Thermoelectric Properties in Cobalt Shandites Co₃M₂S₂ (M = Sn, In). Chemistry of Materials, 2015, 27, 3946-3956.	6.7	47
31	Three-dimensional gallium sulphide open frameworks. Journal of Physics and Chemistry of Solids, 2007, 68, 1239-1243.	4.0	46
32	Ferromagnetic resonance and magnetic properties of single-domain particles of Y3Fe5O12 prepared by solâ€“gel method. Physica B: Condensed Matter, 2004, 354, 104-107.	2.7	44
33	Structure and thermoelectric properties of the ordered skutterudite CoGe1.5Te1.5. Journal of Solid State Chemistry, 2006, 179, 2047-2053.	2.9	44
34	A Three-Dimensional Open-Framework Indium Selenide:â€‰ [C7H10N][In9Se14]. Inorganic Chemistry, 2008, 47, 20-22.	4.0	44
35	Solvothermal synthesis of novel antimony sulphides containing 6Sb4S792? units. Solid State Ionics, 2004, 172, 601-605.	2.7	42
36	Zero-Dimensional Units of Ligand-Bridged Gallium-Sulfide Supertetrahedra. Inorganic Chemistry, 2009, 48, 810-812.	4.0	39

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37	Layered oxychalcogenides: Structural chemistry and thermoelectric properties. Journal of Materiomics, 2016, 2, 131-140.	5.7	39
38	Thermoelectric properties of TiS2 mechanically alloyed compounds. Journal of the European Ceramic Society, 2016, 36, 1183-1189.	5.7	37
39	Colossal magnetoresistance in the layered chromium sulfideCr2S3â^'x(x=0.08). Physical Review B, 2001, 64, .	3.2	36
40	Fabrication and Evaluation of a Skutterudite-Based Thermoelectric Module for High-Temperature Applications. Journal of Electronic Materials, 2013, 42, 1369-1374.	2.2	36
41	Co3M2S2 (M = Sn, In) shandites as tellurium-free thermoelectrics. Journal of Materials Chemistry A, 2013, 1, 6553.	10.3	33
42	[Cr(C6H18N4)(SbS3)], a chromium complex containing an unusual bidentate SbS33â^' ligand. Polyhedron, 2003, 22, 2839-2845.	2.2	32
43	The impact of charge transfer and structural disorder on the thermoelectric properties of cobalt intercalated TiS₂. Journal of Materials Chemistry C, 2016, 4, 1871-1880.	5.5	32
44	Solvothermal synthesis and characterisation of new one-dimensional indium and gallium sulphides: [C10N4H26]0.5[InS2] and [C10N4H26]0.5[GaS2]. Journal of Solid State Chemistry, 2006, 179, 302-307.	2.9	31
45	Jahnâ€“Teller Driven Electronic Instability in Thermoelectric Tetrahedrite. Advanced Functional Materials, 2020, 30, 1909409.	14.9	30
46	Structure and electrical transport properties of the ordered skutterudites MGe1.5S1.5 (M=Co, Rh, Ir). Journal of Solid State Chemistry, 2008, 181, 768-776.	2.9	29
47	Structural Distortions of the Metal Dichalcogenide Units in AMo2S4(A = V, Cr, Fe, Co) and Magnetic and Electrical Properties. Chemistry of Materials, 2002, 14, 1201-1209.	6.7	27
48	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
49	The effect of electron and hole doping on the thermoelectric properties of shandite-type Co 3 Sn 2 S 2. Journal of Solid State Chemistry, 2017, 251, 204-210.	2.9	26
50	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
51	Ordered-Defect Sulfides as Thermoelectric Materials. Journal of Electronic Materials, 2014, 43, 2029-2034.	2.2	23
52	Hydrothermal synthesis of [C6H16N2][In2Se3(Se2)]: A new one-dimensional indium selenide. Journal of Solid State Chemistry, 2011, 184, 1800-1804.	2.9	22
53	Up-scaled synthesis process of sulphur-based thermoelectric materials. RSC Advances, 2016, 6, 10044-10053.	3.6	22
54	Skutterudite Thermoelectric Modules with High Volume-Power-Density: Scalability and Reproducibility. ACS Applied Energy Materials, 2018, 1, 6609-6618.	5.1	22

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55	Cation partitioning in ternary vanadium sulfides2S4 (A=Ti, Cr, Fe, Ni). Journal of Materials Chemistry, 1999, 9, 485-492.	6.7	21
56	Fine Structure and Optical Properties of Cholesteric Films Prepared from Cellulose 4-Methylphenyl Urethane/N-Vinyl Pyrrolidinone Solutions. Macromolecules, 2002, 35, 7354-7360.	4.8	20
57	Synthesis, characterization and physical properties of the skutterudites YbxFe2Ni2Sb12 (0â‰¤xâ‰¤0.4). Journal of Solid State Chemistry, 2012, 193, 36-41.	2.9	18
58	Improved Thermoelectric Performance through Double Substitution in Shandite-Type Mixed-Metal Sulfides. ACS Applied Energy Materials, 2020, 3, 2168-2174.	5.1	17
59	A Powder Neutron Diffraction Study of the Magnetic Structure of FeV2S4. Journal of Solid State Chemistry, 1999, 144, 372-378.	2.9	16
60	Thermoelectric properties of BiOCu_{1â^'x}M_xSe (M = Cd and Zn). Semiconductor Science and Technology, 2014, 29, 064002.	2.0	16
61	Understanding the origin of disorder in kesterite-type chalcogenides A₂ZnBQ₄ (A = Cu, Ag; B = Sn, Ge; Q = S, Se): the influence of inter-layer interactions. Physical Chemistry Chemical Physics, 2019, 21, 19311-19317.	2.8	16
62	Structures and Properties of New Ordered Defect Phases in the Vanadium Chromium Sulfide System. Chemistry of Materials, 2000, 12, 2705-2714.	6.7	15
63	A synchrotronpowder X-ray diffraction study of the skutterudite-related phases AB_{1.5}Te_{1.5}(A = Co, Rh, Ir; B = Ge, Sn). Dalton Transactions, 2010, 39, 1020-1026.	3.3	15
64	Rapid synthesis of chalcohalides by ball milling: Preparation and characterisation of BiSI and BiSeI. Journal of Solid State Chemistry, 2020, 291, 121625.	2.9	15
65	A Tunable Structural Family with Ultralow Thermal Conductivity: Copper-Deficient Cu_{1â€“x}â–¡_xPb_{1â€“x}Bi_{1+x}S₃. Journal of the American Chemical Society, 2022, 144, 1846-1860.	13.7	15
66	Pressure-induced phase transitions in chromium thiospinels. Physical Review B, 2001, 63, .	3.2	14
67	Origin of Low Thermal Conductivity in In4Se3. ACS Applied Energy Materials, 2020, 3, 12549-12556.	5.1	14
68	Structural, Magnetic, and Electronic Properties of Vanadium-Substituted Nickel Chromium Sulfide. Chemistry of Materials, 2000, 12, 1034-1041.	6.7	12
69	Electron and phonon transport in shandite-structured<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Ni</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Sn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 94, .	3.2	12
70	Tin-Substituted Chalcopyrite: An n-Type Sulfide with Enhanced Thermoelectric Performance. Chemistry of Materials, 2022, 34, 5860-5873.	6.7	12
71	High temperature neutron diffraction studies of phase transformations in NiCr2S4. Journal of Materials Chemistry, 1999, 9, 2859-2863.	6.7	11
72	The charge-transfer complexation of tetrathiafulvalene with paraquat and its oligomeric derivatives. Tetrahedron Letters, 2001, 42, 5089-5091.	1.4	11

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73	Solvothermal Synthesis of Oneâ€dimensional Chalcogenides Containing Group 13 Elements. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 2526-2531.	1.2	11
74	Synthesis and Characterization of Inorganicâ€“Organic Hybrid Gallium Selenides. Inorganic Chemistry, 2014, 53, 8845-8847.	4.0	11
75	Synthesis and characterisation of the anion-ordered tellurides MGeTe (M=Co, Rh). Solid State Sciences, 2009, 11, 1077-1082.	3.2	10
76	Ternary Erbium Chromium Sulfides: Structural Relationships and Magnetic Properties. Inorganic Chemistry, 2009, 48, 1284-1292.	4.0	10
77	Co3(SO4)3(OH)2[enH2]: A New S = 3/2 Kagome-Type Layered Sulfate with a Unique Connectivity. Chemistry of Materials, 2009, 21, 4102-4104.	6.7	10
78	Structural complexity in indium selenides prepared using bicyclic amines as structure-directing agents. Dalton Transactions, 2015, 44, 1592-1600.	3.3	10
79	Thermoelectric Properties of Minerals with the Mawsonite Structure. ACS Applied Energy Materials, 2019, 2, 8068-8078.	5.1	9
80	The impact of manganese substitution on the structure and properties of tetrahedrite. Journal of Applied Physics, 2019, 126, 045107.	2.5	8
81	Multiple Roles of 1,4-Diazabicyclo[2.2.2]octane in the Solvothermal Synthesis of Iodobismuthates. Inorganic Chemistry, 2021, 60, 5333-5342.	4.0	8
82	Chalcogenide Thermoelectric Materials. RSC Energy and Environment Series, 2016, , 27-59.	0.5	8
83	Phase behaviour, magnetic and electronic properties in the series Co1 â^' xNixCr2S4 (0 â‰¤ x < 1). Journal of Materials Chemistry, 2000, 10, 2381-2387.	6.7	7
84	Structure?property relationships in ordered-defect sulphides. Solid State Ionics, 2004, 172, 469-475.	2.7	7
85	Na5(Ga4S)(GaS4)3Â·6H2O: A three-dimensional thiogallate containing a novel octahedral building block. Solid State Sciences, 2011, 13, 1137-1142.	3.2	7
86	High-temperature orderâ€“disorder transitions in the skutterudites CoGe1.5Q1.5 (Q=S, Te). Journal of Solid State Chemistry, 2013, 198, 525-531.	2.9	7
87	Structural and magnetic characterization of YIG particles prepared using microemulsions. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 2129-2130.	2.3	6
88	Order-disorder transitions in NiCr2S4. Physica B: Condensed Matter, 2000, 276-278, 238-239.	2.7	6
89	The influence of intralayer structural distortions on the electrical and magnetic properties of V1+xMo2â^'xS4(0 â‰¤ x â‰¤2). Journal of Materials Chemistry, 2004, 14, 3051-3057.	6.7	6
90	Thermopower across the insulator-metal divide inNiCr2â^'xVxS4(0â©½xâ©½2). Physical Review B, 2005, 71, .	3.2	6

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91	Compositional control of electrical transport properties in the new series of defect thiospinels, Ga1â^'xGexV4S8â^'Î´ (0â‰¤xâ‰¤1). Journal of Solid State Chemistry, 2009, 182, 2806-2814.	2.9	6
92	Polymorphism and optical properties in [NH4][InSe2]. Journal of Solid State Chemistry, 2013, 204, 159-165.	2.9	6
93	[C₇H₁₀N][In₃Se₅]: A Layered Selenide with Two Indium Coordination Environments. Inorganic Chemistry, 2012, 51, 7404-7409.	4.0	5
94	Chapter 1. Synthesis and Property Measurements of Thermoelectric Materials. Inorganic Materials Series, 2021, , 1-52.	0.7	5
95	Ionothermal synthesis of the mixed-anion material, Ba3Cl4CO3. Journal of Solid State Chemistry, 2009, 182, 2333-2337.	2.9	4
96	Muon spin rotation study of magnetism in electron-doped chromium sulfide. Physical Review B, 2005, 72, .	3.2	3
97	catena-Poly[piperazinium di-Î¼-sulfido-gallium]. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m1700-m1700.	0.2	3
98	Crystal structure of (C₉H₁₇N₂)₃[Bi₂I₉]. Acta Crystallographica Section E: Crystallographic Communications, 2021, 77, 899-902.	0.5	3
99	The onset of copper-ion mobility and the electronic transition in the kesterite Cu2ZnGeSe4. Journal of Materials Chemistry A, 2021, 9, 27493-27502.	10.3	3
100	Talnakhite: A potential n-type thermoelectric sulphide with low thermal conductivity. Journal of Solid State Chemistry, 2022, 314, 123425.	2.9	3
101	Ternary Skutterudites: Anion Ordering and Thermoelectric Properties. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	2
102	Thermoelectric exhaust-gas energy recovery: An integrated approach. , 2012, , .		2
103	A Discrete Ligand-Free T3 Supertetrahedral Cluster of Gallium Sulfide. Molecules, 2021, 26, 5415.	3.8	2
104	Bis(tetraphenylphosphonium) tetrasulfidotungstate(VI). Acta Crystallographica Section E: Structure Reports Online, 2008, 64, m574-m574.	0.2	2
105	Structural distortions and the insulator to metal transition in NiCr2â^'xVxS4. Chemical Communications, 1999, , 753-754.	4.1	1
106	SANS studies of solutions and molecular composites prepared from cellulose tricarbanilate. Applied Physics A: Materials Science and Processing, 2002, 74, s472-s474.	2.3	1
107	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
108	Simultaneous diffraction and resistance measurements of metal sulphides. Journal of Physics and Chemistry of Solids, 2007, 68, 1052-1056.	4.0	1

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109	Synthesis, Characterisation and Magnetic Properties of a One-Dimensional Iron(II) Coordination Polymer. Journal of Chemical Crystallography, 2011, 41, 601-605.	1.1	1
110	The impact of a magnetic ion on the thermoelectric properties of copper-rich quaternary selenides. JPhys Energy, 2022, 4, 034001.	5.3	1
111	Templated Synthesis of the Novel Layered Silverâ€"Antimony Sulfides [H3NCH2CH2NH2] [Ag2SbS3] and [H3NCH2CH2NH2]2 [Ag5Sb3S8].. ChemInform, 2004, 35, no.	0.0	0
112	[Co(en)3][Sb12S19]: A New Antimony Sulfide with a Zeolite-Like Structure Containing One-Dimensional Channels.. ChemInform, 2005, 36, no.	0.0	0
113	Thermoelectric Properties of Mixed-Metal Tellurides. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	0
114	Ethylenediammonium tetraaquabis(sulfato)cobaltate(II). Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2643-m2644.	0.2	0
115	Organically-functionalised supertetrahedra as building blocks for hybrid materials. Materials Research Society Symposia Proceedings, 2008, 1148, 1.	0.1	0
116	Synthesis and thermoelectric properties of the new skutterudites YbxFe2Ni2Sb12 (0 â‰¤ x â‰¤ 0.4). , 2012, , .		0