Jinlei Yao

List of Publications by Year
in descending order

77 papers	838 citations	643344 15 h-index	685536 24 g-index
88 all docs	88 docs citations	88 times ranked	1061 citing authors

#	ARTICLE	IF	CITATIONS
1	The Gd-Ni-Ga system at 870Ââ€‹K as a representative of rare-earth nickel gallides: Crystal structure and magnetic properties. Journal of Solid State Chemistry, 2022, 305, 122692.	1.4	4
2	Elucidating the reaction pathway of crystalline multi-metal borides for highly efficient oxygen-evolving electrocatalysts. Journal of Materials Chemistry A, 2022, 10, 1569-1578.	5.2	13
3	Homoepitaxial growth of high-quality GaN nanoarrays for enhanced UV luminescence. CrystEngComm, 2022, 24, 2472-2478.	1.3	1
4	The exchange between anions and cations induced by coupled plasma and thermal annealing treatment for room-temperature ferromagnetism. Physical Chemistry Chemical Physics, 2022, 24, 7001-7006.	1.3	3
5	Effect of Minor Co Substitution for Fe on the Formability and Magnetic and Magnetocaloric Properties of the Amorphous Fe88Ce7B5 Alloy. Metals, 2022, 12, 589.	1.0	9
6	Magnetic ordering and magnetocalori effect of GdNiGa4, GdNi0.5Ga1.5 and GdNiGa. Journal of Solid State Chemistry, 2022, 311, 123118.	1.4	1
7	Self-Nucleated Nonpolar GaN Nanowires with Strong and Enhanced UV Luminescence. Crystal Growth and Design, 2022, 22, 4787-4793.	1.4	3
8	Composition-tunable magnetic properties of {Gd, Dy, Ho}6FeTe2, Ho6RuSb2 ternary compounds and Dy6FeSbBi, Dy6FeSbTe and Dy6FeBiTe quasiternary solid solutions. Physica B: Condensed Matter, 2022, 643, 414187.	1.3	2
9	Improved cycling stability of Ni-rich LiNi0.8Co0.1Mn0.1O₂ cathode materials by optimizing Ti doping. Functional Materials Letters, 2021, 14, 2150002.	0.7	9
10	Evolution from a single relaxation process to two-step relaxation processes of Dy2 single-molecule magnets via the modulations of the terminal solvent ligands. Dalton Transactions, 2021, 50, 217-228.	1.6	11
11	A benzothiadiazole-containing Ï€-conjugated small molecule as promising element for nonvolatile multilevel resistive memory device. Journal of Solid State Chemistry, 2021, 294, 121850.	1.4	11
12	The Ceâ€“Ni-Ga system at 670/870Ââ€‹K: Magnetic properties and heat capacity of ternary compounds. Journal of Solid State Chemistry, 2021, 294, 121895.	1.4	5
13	Two-layer compounds in rare earth-{Fe, Co, Ni, Rh, Pd, Pt}-Te systems: crystal structure and magnetic properties. Journal of Solid State Chemistry, 2021, 295, 121923.	1.4	3
14	Sm26Co11Ga6-type R26{Co, Ni}6.5-9.4Ga10.5-7.6 compounds (R = Gdâ€“Er): Crystal structure, magnetic ordering and heat capacity. Journal of Solid State Chemistry, 2021, 301, 122322.	1.4	2
15	Single-ion magnet behavior of two pentacoordinate CoII complexes with a pincer ligand 2,6-bis(imidazo[1,5-a] pyridin-3-yl)pyridine. Structural Chemistry, 2020, 31, 547-555.	1.0	4
16	Investigation of catalyst-assisted growth of nonpolar GaN nanowires<i>via</i>a modified HVPE process. Nanoscale, 2020, 12, 4393-4399.	2.8	6
17	Magnetic ordering of Sm26Co11Ga6-type R26Co9-6Ga8-11 compounds (R = Gdâ€“Ho, Tm). Journal of Solid State Chemistry, 2020, 283, 121162.	1.4	2
18	Simultaneous detection of trace Ag(I) and Cu(II) ions using homoepitaxially grown GaN micropillar electrode. Analytica Chimica Acta, 2020, 1100, 22-30.	2.6	24

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19	The Tb-Fe-Ga system at 870Ââ€‹K as a representative of rare-earth iron gallides: Crystal structure and magnetic properties. Journal of Solid State Chemistry, 2020, 290, 121482.	1.4	4
20	A series of mononuclear lanthanide complexes constructed by Schiff base and Î²-diketonate ligands: synthesis, structures, magnetic and fluorescent properties. Polyhedron, 2020, 187, 114651.	1.0	3
21	Annealing effects of TiO2 coating on cycling performance of Ni-rich cathode material LiNi0.8Co0.1Mn0.1O2 for lithium-ion battery. Materials Letters, 2020, 265, 127418.	1.3	39
22	Phase-separated Ceâ€“Coâ€“O catalysts for CO oxidation. International Journal of Hydrogen Energy, 2020, 45, 12777-12786.	3.8	15
23	Controllable conduction and hidden phase transitions revealed via vertical strain. Applied Physics Letters, 2019, 114, 252901.	1.5	5
24	Cu₃Pâ€“Ni₂P Hybrid Hexagonal Nanosheet Arrays for Efficient Hydrogen Evolution Reaction in Alkaline Solution. Inorganic Chemistry, 2019, 58, 11630-11635.	1.9	47
25	Low-temperature coercivity of Mo2NiB2-type Tb2Co2Ga and Tb2Co2Al-based solid solutions. Journal of Solid State Chemistry, 2019, 277, 406-414.	1.4	4
26	Magnetic ordering of Ho6Co2Ga-type {Gd, Tb, Dy}6Co2.2Al0.8 and Tb6Co2Al compounds by magnetization and neutron diffraction study. Intermetallics, 2019, 113, 106588.	1.8	5
27	Magnetic entropy change and magnetocaloric effect of DyNiSi3, Dy2Ni3Si5, DyNiSi2 and HoNiSi0.33Ga67 antiferromagnets. Intermetallics, 2019, 107, 81-92.	1.8	8
28	The Tbâ€“Co-Ga system at 870â€¯K as a representative of rare-earth cobalt gallides: Crystal structure and magnetic properties. Journal of Solid State Chemistry, 2019, 277, 303-315.	1.4	8
29	Magnetic ordering of Lu14Co3In3-type {Gd, Tb}14Ni3Al3 compounds by magnetization heat capacity and neutron diffraction study. Journal of Solid State Chemistry, 2019, 273, 199-206.	1.4	2
30	Rationally assembled nonanuclear lanthanide clusters: Dy₉ displays slow relaxation of magnetization and Tb₉ serves as luminescent sensor for Fe³⁺, CrO₄^{2âˆ’} and Cr₂O₇^{2âˆ’}. New Journal of Chemistry, 2019, 43, 19344-19354.	1.4	12
31	Lu14Co3In3-type Y14Co3Al3, Gd14Co3.2Al2.8, {Gd, Tb, Dy, Lu}14Ni3Al3 and {Tb, Dy}14Co3Al3 compounds: Crystal structure, magnetic properties and heat capacity. Journal of Magnetism and Magnetic Materials, 2019, 476, 317-324.	1.0	4
32	Mo2NiB2-type Sm2Co2Al and Sm2Co2Ga compounds: Magnetic properties and giant low-temperature coercivity. Journal of Solid State Chemistry, 2018, 260, 95-100.	1.4	7
33	The Gd-Co-Al system at 870/1070â€¯K as a representative of the rare earth-Co-Al family and new rare-earth cobalt aluminides: Crystal structure and magnetic properties. Journal of Solid State Chemistry, 2018, 261, 62-74.	1.4	13
34	Structural and magnetic properties of Fe2P-type RTTe compounds (R = Tb, Dy, Ho, Er, T = Fe, Co, Ru): Magnetic properties and specific features of magnetic entropy change. Journal of Solid State Chemistry, 2018, 258, 201-211.	1.4	9
35	Magnetic ordering and coercivity of {Y, Tb}Ni4Si, NdNi3TSi (Tâ€¯=â€¯Mn - Cu) and Sm1-xTbxNi3FeSi solid solutions. Journal of Solid State Chemistry, 2018, 265, 18-28.	1.4	1
36	W 3 CoB 3 -type {Y, Gd - Ho} 3 Co 4âˆ’x Al x (x=0.5âˆ’1) rare earth compounds: Specific features of crystal structure and magnetic ordering. Journal of Solid State Chemistry, 2017, 251, 33-42.	1.4	5

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37	Crystal structure of yttrium gallium antimonide, Y₅Ga_{1.24}Sb_{2.77}. Zeitschrift Fur Kristallographie - New Crystal Structures, 2017, 232, 331-332.	0.1	0
38	diffraction study. Journal of Magnetism and Magnetic Materials, 2017, 442, 36-44.	1.0	15
39	Improved electrical and magnetic transport properties of La0.8Ba0.2MnO3 thin films by oxygen annealing. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	2.0	4
40	Giant magnetic coercivity in YNi4B-type SmNi3TB (T=Mnâ€"Cu) solid solutions. Journal of Magnetism and Magnetic Materials, 2016, 419, 176-188.	1.0	2
41	Stoner-enhanced paramagnetism in tungsten tetraboride. Journal of Physics Condensed Matter, 2016, 28, 026005.	0.7	2
42	Magnetic order of Y3NiSi3-type R3NiSi3 (R=Gdâ€"DY) compounds. Journal of Magnetism and Magnetic Materials, 2016, 398, 141-147.	1.0	5
43	Giant magnetic coercivity in orthorhombic YNi4Si-type SmNi4Si compound. Journal of Solid State Chemistry, 2015, 230, 249-253.	1.4	5
44	The structural and magnetic properties of the compound Tm₅Ge₄. RSC Advances, 2015, 5, 26850-26855.	1.7	5
45	Magnetic properties of CaCu5-type RNi3TSi (R=Gd and Tb, T=Mn, Fe, Co and Cu) compounds. Journal of Solid State Chemistry, 2015, 232, 150-156.	1.4	15
46	Giant magnetic coercivity in CaCu5-type SmNi3TSi (T=Mnâ€"Cu) solid solutions. Journal of Solid State Chemistry, 2015, 232, 213-220.	1.4	4
47	Magnetic order and crystal structure study of YNi4Si-type NdNi4Si. Journal of Solid State Chemistry, 2015, 222, 123-128.	1.4	7
48	Magnetic order of the La 3 NiGe 2 -type Ho 3 NiGe 2. Journal of Magnetism and Magnetic Materials, 2014, 360, 200-204.	1.0	3
49	Structural distortion and band gap opening of hard MnB4 in comparison with CrB4 and FeB4. Journal of Solid State Chemistry, 2014, 213, 52-56.	1.4	28
50	Field-Induced Spin-Flop in Antiferromagnetic Semiconductors with Commensurate and Incommensurate Magnetic Structures: Li₂FeGeS₄ (LIGS) and Li₂FeSnS₄ (LITS). Inorganic Chemistry, 2014, 53, 12265-12274.	1.9	24
51	Dyâ€"Mnâ€"Si as a representative of family of â€˜Dyâ€"Transition Metalâ€"Siâ€™ systems: Its isothermal sections, empirical rProd. Type: FTPules and new rare-earth manganese silicides. Journal of Solid State Chemistry, 2013, 206, 199-208.	1.4	5
52	Structural and relative stabilities, electronic properties and possible reactive routing of osmium and ruthenium borides from first-principles calculations. Dalton Transactions, 2013, 42, 7041.	1.6	31
53	Coloring problem and magnetocaloric effect of Gd3Co2.2Si1.8. Journal of Alloys and Compounds, 2013, 550, 331-334.	2.8	4
54	Synthesis, Crystal Structure, and Electronic Properties of the Tetragonal (REIREII)3SbO3 Phases (REI =) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.9	7

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55	Electronically Induced Ferromagnetic Transitions inSm5Ge4-Type Magnetoresponsive Phases. Physical Review Letters, 2013, 110, 077204.	2.9	12
56	Dyâ€“Coâ€“Si system at 870/1070ÂK. Intermetallics, 2013, 41, 70-75.	1.8	11
57	New ternary Yb5Sb3-type R5PtX2 compounds (RÂ=ÂY, Gd and Er; XÂ=ÂSb and Bi) and their magnetic properties. Intermetallics, 2013, 34, 10-13.	1.8	3
58	Disorder-Controlled Electrical Properties in the Ho2Sb1â€“xBixO2 Systems. Chemistry of Materials, 2013, 25, 699-703.	3.2	14
59	Suppression of antiferromagnetic interactions through Cu vacancies in Mn-substituted CuInSe₂chalcopyrites. Journal of Physics Condensed Matter, 2012, 24, 086006.	0.7	9
60	Mn incorporation in CuInS2 chalcopyrites: Structure, magnetism and optical properties. Materials Chemistry and Physics, 2012, 136, 415-423.	2.0	16
61	Crystal structure and magnetic properties of novel Hf3Ni2Si3-type R3Co2Ge3 compounds (R=Y, Sm,) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	9
62	Electron-Deficient Eu_{6.5}Gd_{0.5}Ge₆ Intermetallic: A Layered Intergrowth Phase of the Gd₅Si₄- and FeB-Type Structures. Inorganic Chemistry, 2012, 51, 3172-3178.	1.9	3
63	Magnetic structure of the La3NiGe2-type Tb3NiGe2 and Mn5Si3-type Tb5NixGe3â^’x (x=0 and 0.3). Journal of Magnetism and Magnetic Materials, 2012, 324, 2977-2982.	1.0	6
64	Crystal structure and magnetic properties of novel R3Co2.2Si1.8 compounds (R=Y, Gdâ€“Tm). Journal of Solid State Chemistry, 2012, 192, 371-376.	1.4	10
65	Magnetic properties and magnetocaloric effect of Sc2CoSi2-type Gd2CoSi2 and Gd2CoGe2 compounds. Intermetallics, 2012, 21, 115-120.	1.8	16
66	Crystal structure and magnetism of Gd5â^’xEuxGe4. Journal of Alloys and Compounds, 2012, 534, 74-80.	2.8	13
67	Tuning Magnetic and Structural Transitions through Valence Electron Concentration in the Giant Magnetocaloric Gd_{5â€“<i>x</i>}Eu_{<i>x</i>}Ge₄ Phases. Chemistry of Materials, 2012, 24, 552-556.	3.2	22
68	Decoupling the Electrical Conductivity and Seebeck Coefficient in the <i>RE</i>₂SbO₂ Compounds through Local Structural Perturbations. Journal of the American Chemical Society, 2012, 134, 1426-1429.	6.6	38
69	Magnetic ordering of anti-Th3P4-type R4X3 and Th3P4-type R3X4 compounds (RÂ=ÂCe, Pr, Nd, Sm, XÂ=ÂGe, Sb,) Tj ETQq1 1 0.78431	1.8	5
70	Crystal structure, coloring problem and magnetism of Gd5â^’xZrxSi4. Dalton Transactions, 2011, 40, 4275.	1.6	18
71	Site Preference of Metal Atoms in Gd_{5â€“}<i>xMxTt</i>₄ (<i>M</i> = Zr, Hf;) Tj ETQq1 1 0.784314 rgBT /Ov	0.6	15
72	Thermoelectric properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-type CuInSe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>chalcopyrites enhanced by introduction of manganese. Physical Review B, 2011, 84, .	1.1	57

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73	Site Preference of Manganese on the Copper Site in Mn-Substituted CuInSe₂ Chalcopyrites Revealed by a Combined Neutron and X-ray Powder Diffraction Study. Chemistry of Materials, 2010, 22, 1647-1655.	3.2	25
74	Effects of Mn substitution on the structure and properties of chalcopyrite-type CuInSe2. Journal of Solid State Chemistry, 2009, 182, 2579-2586.	1.4	27
75	Structure analysis and optical study of Inâ€“Oâ€“N nanospears. Nanotechnology, 2007, 18, 195604.	1.3	6
76	Synthesis and magnetic study for Fe-doped carbon nanotubes (CNTs). Journal of Crystal Growth, 2005, 277, 293-297.	0.7	18
77	Synthesis and optical study of GaP nanowires. Nanotechnology, 2004, 15, 1745-1748.	1.3	15