

Xingjun Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

2,490
citations

28
h-index

46
g-index

116
ext. papers

3,462
ext. citations

7.2
avg, IF

5.24
L-index

#	Paper	IF	Citations
111	Passive Radiative Cooling Enables Improved Performance in Wearable Thermoelectric Generators.. <i>Small</i> , 2022 , e2106875	11	5
110	Eight-Component Nanoporous High-Entropy Oxides with Low Ru Contents as High-Performance Bifunctional Catalysts in Zn-Air Batteries.. <i>Small</i> , 2022 , e2107207	11	4
109	Twelve-Component Free-Standing Nanoporous High-Entropy Alloys for Multifunctional Electrocatalysis 2022 , 4, 181-189		8
108	Highly Strengthened and Toughened Zn-Li-Mn Alloys as Long-Cycling Life and Dendrite-Free Zn Anode for Aqueous Zinc-Ion Batteries.. <i>Small</i> , 2022 , e2200787	11	2
107	MOF Structure Engineering to Synthesize Co?N?C Catalyst with Richer Accessible Active Sites for Enhanced Oxygen Reduction. <i>Small</i> , 2021 , 17, e2104684	11	17
106	Integrate multifunctional ionic sieve lithiated X zeolite-ionic liquid electrolyte for solid-state lithium metal batteries with ultralong lifespan. <i>Chemical Engineering Journal</i> , 2021 , 433, 133522	14.7	1
105	Modulating the Surface Ligand Orientation for Stabilized Anionic Redox in Li-Rich Oxide Cathodes. <i>Advanced Energy Materials</i> , 2021 , 11, 2003479	21.8	14
104	Enhanced Thermoelectric Performance in High Entropy Alloys SnPbMnGeTe. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18638-18647	9.5	10
103	Effects of Bonding Treatment and Ball Milling on W-20 wt.% Cu Composite Powder for Injection Molding. <i>Materials</i> , 2021 , 14,	3.5	2
102	Point defect approach to enhance the thermoelectric performance of Zintl-phase BaAgSb. <i>Science China Materials</i> , 2021 , 64, 2541-2550	7.1	4
101	Inhibiting Surface Diffusion to Synthesize 3D Bicontinuous Nanoporous N-Doped Carbon for Boosting Oxygen Reduction Reaction in Flexible All-Solid-State Al-Air Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2103632	15.6	8
100	Microstructure, martensitic transformation and shape memory effect of polycrystalline Cu-Al-Mn-Fe alloys. <i>Science China Technological Sciences</i> , 2021 , 64, 400-406	3.5	3
99	Multicomponent Co-Ti-based superalloy with high solvus temperature and low lattice misfit. <i>Materials Letters</i> , 2021 , 284, 128910	3.3	2
98	Development of phase change materials using hydrolyzed Al-Bi composite powder for solar energy storage. <i>Chemical Engineering Journal</i> , 2021 , 421, 127836	14.7	3
97	Precipitation behavior in G-phase strengthened ferritic stainless steels. <i>Acta Materialia</i> , 2021 , 205, 116544	14.4	8
96	Enhanced thermoelectric performance of n-type TiCoSb half-Heusler by Ta doping and Hf alloying. <i>Rare Metals</i> , 2021 , 40, 40-47	5.5	12
95	Flexible Solid-State Direct Ethanol Fuel Cell Catalyzed by Nanoporous High-Entropy Al-Pd-Ni-Cu-Mo Anode and Spinel (AlMnCo) ₃ O ₄ Cathode. <i>Advanced Functional Materials</i> , 2021 , 31, 2007129	15.6	21

94	Recent Progress on Topological Structures in Ferroic Thin Films and Heterostructures. <i>Advanced Materials</i> , 2021 , 33, e2000857	24	34
93	CALPHAD as a powerful technique for design and fabrication of thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6634-6649	13	6
92	Vacancy ordering induced topological electronic transition in bulk EuZnSb. <i>Science Advances</i> , 2021 , 7,	14.3	5
91	Fast and stable K-ion storage enabled by synergistic interlayer and pore-structure engineering. <i>Nano Research</i> , 2021 , 14, 4502	10	11
90	TopDown Synthesis of Noble Metal Particles on High-Entropy Oxide Supports for Electrocatalysis. <i>Chemistry of Materials</i> , 2021 , 33, 1771-1780	9.6	29
89	Dominant role of M element on the stability and properties of Prussian blue analogues $\text{Na}_x\text{MFe}(\text{CN})_6$ (M = Fe , Co , Ni , Cu , Zn , Mn , Cd , Pb , Hg , Ag , Au , Pt , Pd , Rh , Ir , Os , Ru , Ni , Co , Fe , Mn , Zn , Cd , Pb , Hg , Ag , Au , Pt , Pd , Rh , Ir , Os , Ru) as cathode material for the sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159533	5.7	4
88	High-Performance Spectrally Selective Absorber Using the ZrB-Based All-Ceramic Coatings. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40522-40530	9.5	4
87	Inhibiting Surface Diffusion to Synthesize 3D Bicontinuous Nanoporous N-Doped Carbon for Boosting Oxygen Reduction Reaction in Flexible All-Solid-State Al-Air Batteries (Adv. Funct. Mater. 38/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170284	15.6	
86	Stabilizing the Optimal Carrier Concentration in Al/Sb-Codoped GeTe for High Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45717-45725	9.5	6
85	Novel and durable composite phase change thermal energy storage materials with controllable melting temperature. <i>Journal of Materials Science and Technology</i> , 2021 , 86, 11-19	9.1	5
84	Accelerated discovery of high-performance Cu-Ni-Co-Si alloys through machine learning. <i>Materials and Design</i> , 2021 , 209, 109929	8.1	5
83	coupling of Ag nanoparticles with high-entropy oxides as highly stable bifunctional catalysts for wearable Zn-Ag/Zn-air hybrid batteries. <i>Nanoscale</i> , 2021 , 13, 16164-16171	7.7	2
82	Enhanced Thermoelectric Properties in p-Type Double Half-Heusler $\text{Ti}_2\text{V}_x\text{Hf}_{1-x}\text{FeNiSb}_2\text{Sn}_x$ Compounds. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000096	1.6	7
81	A Dual Role by Incorporation of Magnesium in YbZn_2Sb_2 Zintl Phase for Enhanced Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 2001229	21.8	21
80	Development of Cu-Mn-Ga-based ferromagnetic shape memory single crystals. <i>Materialia</i> , 2020 , 12, 100389	3.89	3
79	Titanium Doping to Enhance Thermoelectric Performance of 19-Electron VCoSb Half-Heusler Compounds with Vanadium Vacancies. <i>Annalen Der Physik</i> , 2020 , 532, 1900440	2.6	6
78	Nanoporous high-entropy alloys with low Pt loadings for high-performance electrochemical oxygen reduction. <i>Journal of Catalysis</i> , 2020 , 383, 164-171	7.3	57
77	Manipulating the intrinsic vacancies for enhanced thermoelectric performance in Eu_2ZnSb_2 Zintl phase. <i>Nano Energy</i> , 2020 , 73, 104771	17.1	15

76	Defect Engineering for Realizing p-Type AgBiSe ₂ with a Promising Thermoelectric Performance. <i>Chemistry of Materials</i> , 2020 , 32, 3528-3536	9.6	7
75	Phase Boundary Mapping in ZrNiSn Half-Heusler for Enhanced Thermoelectric Performance. <i>Research</i> , 2020 , 2020, 4630948	7.8	9
74	The Effect of Temperature and Misfit on η Precipitation in Co-Ti Alloys: Phase-Field Modeling and Experiments. <i>Journal of Phase Equilibria and Diffusion</i> , 2020 , 41, 15-26	1	1
73	High-Performance N-type Mg ₃ Sb ₂ towards Thermoelectric Application near Room Temperature. <i>Advanced Functional Materials</i> , 2020 , 30, 1906143	15.6	33
72	Multi-component nanoporous alloy/(oxy)hydroxide for bifunctional oxygen electrocatalysis and rechargeable Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118431	21.8	38
71	Novel core/void/shell composite phase change materials for high temperature thermal energy storage. <i>Chemical Engineering Journal</i> , 2020 , 391, 123539	14.7	11
70	Oriented Formation of a Prussian Blue Nanoflower as a High Performance Cathode for Sodium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16229-16240	8.3	9
69	Ultrathin carbon nanosheets for highly efficient capacitive K-ion and Zn-ion storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22874-22885	13	19
68	Multicomponent Spinel Metal Oxide Nanocomposites as High-Performance Bifunctional Catalysts in Zn/Air Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7710-7718	6.1	9
67	Rugged High-Entropy Alloy Nanowires with in Situ Formed Surface Spinel Oxide As Highly Stable Electrocatalyst in Zn/Air Batteries 2020 , 2, 1698-1706		37
66	Promising Zintl-Phase Thermoelectric Compound SrAgSb. <i>Chemistry of Materials</i> , 2020 , 32, 6983-6989	9.6	17
65	Effects of jet milling on W ₁₀ wt.%Cu composite powder for injection molding. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 8535-8543	5.5	5
64	Reliable N-type Mg ₃ .2Sb1.5Bi0.49Te0.01/304 stainless steel junction for thermoelectric applications. <i>Acta Materialia</i> , 2020 , 198, 25-34	8.4	24
63	Enhanced Thermoelectric Performance in N-Type Mg ₃ .2Sb1.5Bi0.5 by La or Ce Doping into Mg. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901391	6.4	8
62	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. <i>Nature Communications</i> , 2019 , 10, 3951	17.4	25
61	Enhanced Thermoelectric Performance of Zintl Phase CaZnSb by Beneficial Disorder on the Selective Cationic Site. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37741-37747	9.5	12
60	Zintl-phase EuZnSb: A promising thermoelectric material with ultralow thermal conductivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2831-2836	11.5	59
59	High-strength CoAlV-base superalloys strengthened by η -Co ₃ (Al,V) with high solvus temperature. <i>Acta Materialia</i> , 2019 , 170, 62-74	8.4	40

58	Corrosion Engineering To Synthesize Ultrasmall and Monodisperse Alloy Nanoparticles Stabilized in Ultrathin Cobalt (Oxy)hydroxide for Enhanced Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14745-14752	9.5	11
57	Nanoporous high-entropy alloys for highly stable and efficient catalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6499-6506	13	105
56	Review on Polymer-Based Composite Electrolytes for Lithium Batteries. <i>Frontiers in Chemistry</i> , 2019 , 7, 522	5	162
55	n-Type TaCoSn-Based Half-Heuslers as Promising Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41321-41329	9.5	25
54	Noble Metal-Free Nanoporous High-Entropy Alloys as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction 2019 , 1, 526-533		93
53	Nanoporous Al-Ni-Co-Ir-Mo High-Entropy Alloy for Record-High Water Splitting Activity in Acidic Environments. <i>Small</i> , 2019 , 15, e1904180	11	113
52	A comprehensive study of the high-pressure temperature phase diagram of silicon. <i>Journal of Materials Science</i> , 2018 , 53, 7475-7485	4.3	7
51	Heavy Doping by Bromine to Improve the Thermoelectric Properties of n-type Polycrystalline SnSe. <i>Advanced Science</i> , 2018 , 5, 1800598	13.6	37
50	Portable water-using H ₂ production materials converted from waste aluminum. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018 , 40, 1991-1997	1.6	6
49	Experimental Investigation and Thermodynamic Calculation of Phase Equilibria in the Mg-Pb-Sn Ternary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2018 , 39, 324-343	1	
48	A general and scalable approach to produce nanoporous alloy nanowires with rugged ligaments for enhanced electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12541-12550	13	22
47	N-type Bi-doped SnSe Thermoelectric Nanomaterials Synthesized by a Facile Solution Method. <i>Inorganic Chemistry</i> , 2018 , 57, 13800-13808	5.1	19
46	Effects of Nb and W Additions on the Microstructures and Mechanical Properties of Novel γ Co-V-Ti-Based Superalloys. <i>Metals</i> , 2018 , 8, 563	2.3	9
45	Enhanced thermoelectric performance of p-type Mg ₃ Sb ₂ by lithium doping and its tunability in an anionic framework. <i>Journal of Materials Science</i> , 2018 , 53, 16001-16009	4.3	20
44	Experimental investigation of phase equilibria in the Ni-Nb-V ternary system. <i>International Journal of Materials Research</i> , 2017 , 108, 767-775	0.5	1
43	Experimental Investigation of Phase Equilibria in the Fe-Si-Ti Ternary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2017 , 38, 865-873	1	3
42	The pressure-temperature phase diagram of pure Co based on first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 22061-22068	3.6	2
41	Experimental investigation of phase equilibria in the Nb-Si-Ta ternary system. <i>International Journal of Materials Research</i> , 2016 , 107, 1112-1120	0.5	2

40	Experimental investigation of phase equilibria in the NiBeZr ternary system. <i>Journal of Materials Research</i> , 2016 , 31, 2407-2414	2.5	5
39	A jumping shape memory alloy under heat. <i>Scientific Reports</i> , 2016 , 6, 21754	4.9	15
38	Influence of microstructural features on thermal expansion coefficient in graphene/epoxy composites. <i>Heliyon</i> , 2016 , 2, e00094	3.6	9
37	Experimental Investigation and Thermodynamic Calculation of the Phase Equilibria in the Cu-Fe-Ta System. <i>Journal of Phase Equilibria and Diffusion</i> , 2015 , 36, 28-38	1	4
36	Experimental Determination of Phase Equilibria in the Sn-Zn-Sb System. <i>Journal of Phase Equilibria and Diffusion</i> , 2015 , 36, 350-356	1	6
35	A Novel Self-Assembling Al-based Composite Powder with High Hydrogen Generation Efficiency. <i>Scientific Reports</i> , 2015 , 5, 17428	4.9	25
34	Atomic-Level Mechanisms of Nucleation of Pure Liquid Metals during Rapid Cooling. <i>ChemPhysChem</i> , 2015 , 16, 3916-27	3.2	11
33	Thermodynamic Description of the Cu-Ni-Si System. <i>Journal of Phase Equilibria and Diffusion</i> , 2014 , 35, 93-104	1	11
32	Experimental Investigation of Phase Equilibria in the Ni-Cr-Si Ternary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2014 , 35, 334-342	1	11
31	Thermodynamic Assessment of the Ti-Ir System. <i>Journal of Phase Equilibria and Diffusion</i> , 2014 , 35, 269-275		2
30	Experimental Investigation and Thermodynamic Calculation of the Phase Equilibria in the Bi-Cu-Zn Ternary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2014 , 35, 530-543	1	3
29	Experimental determination and thermodynamic calculation of the phase equilibria in the CoMnTa system. <i>International Journal of Materials Research</i> , 2014 , 105, 1179-1190	0.5	4
28	Experimental Investigation of Phase Equilibria in the Co-Cr-Nb System at 1000, 1100, and 1200 °C. <i>Journal of Phase Equilibria and Diffusion</i> , 2013 , 34, 313-321	1	8
27	The Influence of Flexural Deformation on the Static Magnetoelectric Coefficient of a Bilayered Magnetoelectric Composite. <i>Materials Research Letters</i> , 2013 , 1, 45-50	7.4	7
26	Experimental investigation of phase equilibria in the CoCrW ternary system. <i>International Journal of Materials Research</i> , 2013 , 104, 836-842	0.5	7
25	Thermodynamics and liquid phase separation in the CuCoNb ternary alloys. <i>Journal of Materials Research</i> , 2010 , 25, 1706-1717	2.5	12
24	Thermodynamic assessment of phase equilibria in the Sn-Au-Bi system with key experimental verification. <i>Journal of Materials Research</i> , 2010 , 25, 576-586	2.5	4
23	Development of materials design tool and its application in Pb-free micro-solders in electronic package. <i>Science China Technological Sciences</i> , 2010 , 53, 1495-1500	3.5	1

22	Microsphere Pattern Prepared by a Reverse Breath Figure Method. <i>Macromolecules</i> , 2009 , 42, 9351-9356	5.5	40
21	A four-state memory cell based on magnetoelectric composite. <i>Science Bulletin</i> , 2008 , 53, 2135-2138	10.6	26
20	Experimental investigation and thermodynamic calculation of phase equilibria in the Sn-Au-Ni system. <i>Journal of Electronic Materials</i> , 2005 , 34, 670-679	1.9	25
19	Experimental studies and thermodynamic optimization of the Ni-Bi system. <i>Journal of Phase Equilibria and Diffusion</i> , 2005 , 26, 161-168	1	34
18	Experimental investigation and thermodynamic calculation of the phase equilibria in the Cu-Sn and Cu-Sn-Mn systems. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 1641-1654	2.3	57
17	Formation of core-type macroscopic morphologies in Cu-Fe base alloys with liquid miscibility gap. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 1243-1253	2.3	82
16	Thermodynamic database of the phase diagrams in Cu-Fe base ternary systems. <i>Journal of Phase Equilibria and Diffusion</i> , 2004 , 25, 320-328	1	32
15	Thermodynamic database on microsolders and copper-based alloy systems. <i>Journal of Electronic Materials</i> , 2003 , 32, 1265-1272	1.9	35
14	The use of phase diagrams and thermodynamic databases for electronic materials. <i>Jom</i> , 2003 , 55, 53-59	2.1	20
13	Experimental determination and thermodynamic calculation of the phase equilibria and surface tension in the Sn-Ag-In system. <i>Journal of Electronic Materials</i> , 2002 , 31, 1139-1151	1.9	67
12	Thermodynamic assessment of the Cu-In binary system. <i>Journal of Phase Equilibria and Diffusion</i> , 2002 , 23, 409-415		38
11	Experimental determination and thermodynamic calculation of the phase equilibria in the Cu-In-Sn system. <i>Journal of Electronic Materials</i> , 2001 , 30, 1093-1103	1.9	70
10	Studies of the Ag-In phase diagram and surface tension measurements. <i>Journal of Electronic Materials</i> , 2001 , 30, 1120-1128	1.9	74
9	Phase stability among the ϵ (A1), ϵ (A2), and ϵ (D83) phases in the Cu-Al-X system. <i>Journal of Phase Equilibria and Diffusion</i> , 2001 , 22, 431-438		14
8	Thermodynamic assessment of the phase diagrams of the Cu-Sb and Sb-Zn systems. <i>Journal of Phase Equilibria and Diffusion</i> , 2000 , 21, 432-442		75
7	Phase equilibria of Sn-In based micro-soldering alloys. <i>Journal of Electronic Materials</i> , 2000 , 29, 1113-1121	1.9	31
6	Phase equilibria and the related properties of Sn-Ag-Cu based Pb-free solder alloys. <i>Journal of Electronic Materials</i> , 2000 , 29, 1137-1144	1.9	118
5	Thermodynamic assessment of the Aluminum-Manganese (Al-Mn) binary phase diagram. <i>Journal of Phase Equilibria and Diffusion</i> , 1999 , 20, 45-56		74

4	Thermodynamic database for phase diagrams in micro-soldering alloys. <i>Journal of Electronic Materials</i> , 1999 , 28, 1164-1171	1.9	81
3	Organic/Inorganic Hybrid Design as a Route for Promoting the Bi _{0.5} Sb _{1.5} Te ₃ for High-Performance Thermoelectric Power Generation. <i>Advanced Functional Materials</i> , 2200307	15.6	3
2	Inhibited Surface Diffusion of High-Entropy Nano-Alloys for the Preparation of 3D Nanoporous Graphene with High Amounts of Single Atom Dopants 978-986		0
1	Band Modulation and Strain Fluctuation for Realizing High Average zT in GeTe. <i>Advanced Energy Materials</i> , 2201043	21.8	3