

Xingjun Liu

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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	Review on Polymer-Based Composite Electrolytes for Lithium Batteries. <i>Frontiers in Chemistry</i> , 2019 , 7, 522	5	162
110	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
109	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
108	Nanoporous high-entropy alloys for highly stable and efficient catalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6499-6506	13	105
107	Noble Metal-Free Nanoporous High-Entropy Alloys as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction 2019 , 1, 526-533		93
106	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	2.3	82
105	Thermodynamic database for phase diagrams in micro-soldering alloys. <i>Journal of Electronic Materials</i> , 1999 , 28, 1164-1171	1.9	81
104	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
103	Studies of the Ag-In phase diagram and surface tension measurements. <i>Journal of Electronic Materials</i> , 2001 , 30, 1120-1128	1.9	74
102	Thermodynamic assessment of the Aluminum-Manganese (Al-Mn) binary phase diagram. <i>Journal of Phase Equilibria and Diffusion</i> , 1999 , 20, 45-56		74
101	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
100	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
99	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
98	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
97	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
96	High-strength Co ₃ Al ₄ V-base superalloys strengthened by γ -Co ₃ (Al,V) with high solvus temperature. <i>Acta Materialia</i> , 2019 , 170, 62-74	8.4	40
95	Microsphere Pattern Prepared by a Reverse Breath Figure Method. <i>Macromolecules</i> , 2009 , 42, 9351-9356 ⁵	5.5	40

94	Thermodynamic assessment of the Cu-In binary system. <i>Journal of Phase Equilibria and Diffusion</i> , 2002 , 23, 409-415		38
93	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
92	Heavy Doping by Bromine to Improve the Thermoelectric Properties of n-type Polycrystalline SnSe. <i>Advanced Science</i> , 2018 , 5, 1800598	13.6	37
91	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
90	Thermodynamic database on microsolders and copper-based alloy systems. <i>Journal of Electronic Materials</i> , 2003 , 32, 1265-1272	1.9	35
89	Experimental studies and thermodynamic optimization of the Ni-Bi system. <i>Journal of Phase Equilibria and Diffusion</i> , 2005 , 26, 161-168	1	34
88	Recent Progress on Topological Structures in Ferroic Thin Films and Heterostructures. <i>Advanced Materials</i> , 2021 , 33, e2000857	24	34
87	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
86	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
85	Phase equilibria of Sn-In based micro-soldering alloys. <i>Journal of Electronic Materials</i> , 2000 , 29, 1113-1121	1.9	31
84	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
83	A four-state memory cell based on magnetoelectric composite. <i>Science Bulletin</i> , 2008 , 53, 2135-2138	10.6	26
82	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. <i>Nature Communications</i> , 2019 , 10, 3951	17.4	25
81	n-Type TaCoSn-Based Half-Heuslers as Promising Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41321-41329	9.5	25
80	A Novel Self-Assembling Al-based Composite Powder with High Hydrogen Generation Efficiency. <i>Scientific Reports</i> , 2015 , 5, 17428	4.9	25
79	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
78	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
77	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

76	A Dual Role by Incorporation of Magnesium in YbZn ₂ Sb ₂ Zintl Phase for Enhanced Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 2001229	21.8	21
75	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
74	The use of phase diagrams and thermodynamic databases for electronic materials. <i>Jom</i> , 2003 , 55, 53-59	2.1	20
73	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
72	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
71	N-type Bi-doped SnSe Thermoelectric Nanomaterials Synthesized by a Facile Solution Method. <i>Inorganic Chemistry</i> , 2018 , 57, 13800-13808	5.1	19
70	MOF Structure Engineering to Synthesize Co ₂ N ₂ C Catalyst with Richer Accessible Active Sites for Enhanced Oxygen Reduction. <i>Small</i> , 2021 , 17, e2104684	11	17
69	Promising Zintl-Phase Thermoelectric Compound SrAgSb. <i>Chemistry of Materials</i> , 2020 , 32, 6983-6989	9.6	17
68	Manipulating the intrinsic vacancies for enhanced thermoelectric performance in Eu ₂ ZnSb ₂ Zintl phase. <i>Nano Energy</i> , 2020 , 73, 104771	17.1	15
67	A jumping shape memory alloy under heat. <i>Scientific Reports</i> , 2016 , 6, 21754	4.9	15
66	Phase stability among the (A1), (A2), and (D83) phases in the Cu-Al-X system. <i>Journal of Phase Equilibria and Diffusion</i> , 2001 , 22, 431-438		14
65	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
64	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
63	Thermodynamics and liquid phase separation in the Cu ₂ Co ₂ Ni ₃ ternary alloys. <i>Journal of Materials Research</i> , 2010 , 25, 1706-1717	2.5	12
62	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
61	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
60	Thermodynamic Description of the Cu-Ni-Si System. <i>Journal of Phase Equilibria and Diffusion</i> , 2014 , 35, 93-104	1	11
59	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

58	Atomic-Level Mechanisms of Nucleation of Pure Liquid Metals during Rapid Cooling. <i>ChemPhysChem</i> , 2015 , 16, 3916-27	3.2	11
57	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
56	Fast and stable K-ion storage enabled by synergistic interlayer and pore-structure engineering. <i>Nano Research</i> , 2021 , 14, 4502	10	11
55	Enhanced Thermoelectric Performance in High Entropy Alloys SnPbMnGeTe. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18638-18647	9.5	10
54	Phase Boundary Mapping in ZrNiSn Half-Heusler for Enhanced Thermoelectric Performance. <i>Research</i> , 2020 , 2020, 4630948	7.8	9
53	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
52	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
51	Influence of microstructural features on thermal expansion coefficient in graphene/epoxy composites. <i>Heliyon</i> , 2016 , 2, e00094	3.6	9
50	Effects of Nb and W Additions on the Microstructures and Mechanical Properties of Novel Co-V-Ti-Based Superalloys. <i>Metals</i> , 2018 , 8, 563	2.3	9
49	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
48	Twelve-Component Free-Standing Nanoporous High-Entropy Alloys for Multifunctional Electrocatalysis 2022 , 4, 181-189		8
47	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
46	Precipitation behavior in G-phase strengthened ferritic stainless steels. <i>Acta Materialia</i> , 2021 , 205, 1165424	4.4	8
45	Enhanced Thermoelectric Performance in N-Type Mg _{3.2} Sb _{1.5} Bi _{0.5} by La or Ce Doping into Mg. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901391	6.4	8
44	Enhanced Thermoelectric Properties in p-Type Double Half-Heusler Ti ₂ Hf _y FeNiSb _{2-x} Sn _x Compounds. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000096	1.6	7
43	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
42	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
41	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

40	Experimental investigation of phase equilibria in the Co _{1-x} W _x ternary system. <i>International Journal of Materials Research</i> , 2013 , 104, 836-842	0.5	7
39	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
38	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
37	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
36	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
35	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
34	Passive Radiative Cooling Enables Improved Performance in Wearable Thermoelectric Generators.. <i>Small</i> , 2022 , e2106875	11	5
33	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
32	Experimental investigation of phase equilibria in the NiBe ₂ Zr ternary system. <i>Journal of Materials Research</i> , 2016 , 31, 2407-2414	2.5	5
31	Vacancy ordering induced topological electronic transition in bulk EuZnSb. <i>Science Advances</i> , 2021 , 7,	14.3	5
30	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
29	Accelerated discovery of high-performance Cu-Ni-Co-Si alloys through machine learning. <i>Materials and Design</i> , 2021 , 209, 109929	8.1	5
28	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
27	Experimental determination and thermodynamic calculation of the phase equilibria in the Co _{1-x} Mn _x Ta system. <i>International Journal of Materials Research</i> , 2014 , 105, 1179-1190	0.5	4
26	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
25	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
24	Point defect approach to enhance the thermoelectric performance of Zintl-phase BaAgSb. <i>Science China Materials</i> , 2021 , 64, 2541-2550	7.1	4
23	Dominant role of M element on the stability and properties of Prussian blue analogues Na _x MFe(CN) ₆ (M = Pd transition metal) as cathode material for the sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159533	5.7	4

22	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
21	Development of Cu-Mn-Ga-based ferromagnetic shape memory single crystals. <i>Materialia</i> , 2020 , 12, 100789	3.89	3
20	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
19	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
18	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
17	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
16	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> , 2020 , 30, 2200307	15.6	3
15	Band Modulation and Strain Fluctuation for Realizing High Average zT in GeTe. <i>Advanced Energy Materials</i> , 2020 , 10, 2201043	21.8	3
14	Experimental investigation of phase equilibria in the NbSi ₃ Al ternary system. <i>International Journal of Materials Research</i> , 2016 , 107, 1112-1120	0.5	2
13	Thermodynamic Assessment of the Ti-Ir System. <i>Journal of Phase Equilibria and Diffusion</i> , 2014 , 35, 269-275	2.75	2
12	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
11	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
10	Multicomponent Co-Ti-based superalloy with high solvus temperature and low lattice misfit. <i>Materials Letters</i> , 2021 , 284, 128910	3.3	2
9	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
8	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
7	Experimental investigation of phase equilibria in the Ni ₃ Al ₂ ternary system. <i>International Journal of Materials Research</i> , 2017 , 108, 767-775	0.5	1
6	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
5	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

4	The Effect of Temperature and Misfit on θ Precipitation in Co-Ti Alloys: Phase-Field Modeling and Experiments. <i>Journal of Phase Equilibria and Diffusion</i> , 2020 , 41, 15-26	1	1
3	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
2	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	
1	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	