Jianxin Zhang

List of Publications by Year
in descending order

31 papers	438 citations	687363 13 h-index	752698 20 g-index
31 all docs	31 docs citations	31 times ranked	325 citing authors

#	Article	IF	Citations
1	Interfacial engineering of Bi2Te3/Sb2Te3 heterojunction enables highâ€“energy cathode for aluminum batteries. Energy Storage Materials, 2021, 38, 231-240.	18.0	49
2	Waste eggshell as bio-template to synthesize high capacity Î´-MnO2 nanoplatelets anode for lithium ion battery. Ceramics International, 2018, 44, 20441-20448.	4.8	34
3	Minimum interface misfit criterion for the precipitation morphologies of TCP phases in a Ni-based single crystal superalloy. Intermetallics, 2018, 94, 55-64.	3.9	31
4	A High Capacity Aluminumâ€Ion Battery Based on Imidazole Hydrochloride Electrolyte. ChemElectroChem, 2019, 6, 3350-3354.	3.4	24
5	Nb₂CT<i>_x</i> MXene as High-Performance Energy Storage Material with Na, K, and Liquid Kâ€“Na Alloy Anodes. Langmuir, 2021, 37, 1102-1109.	3.5	22
6	Laser-radiated tellurium vacancies enable high-performance telluride molybdenum anode for aqueous zinc-ion batteries. Energy Storage Materials, 2022, 51, 29-37.	18.0	22
7	Sulfur and nitrogen codoped Nb2C MXene for dendrite-free lithium metal battery. Electrochimica Acta, 2021, 390, 138812.	5.2	21
8	Porous Î±â€MnSe Microsphere Cathode Material for Highâ€Performance Aluminum Batteries. ChemElectroChem, 2019, 6, 4437-4443.	3.4	20
9	Synthesis of polythiophene/graphite composites and their enhanced electrochemical performance for aluminum ion batteries. New Journal of Chemistry, 2019, 43, 15014-15022.	2.8	20
10	First-principles investigations on structural stability, elastic and electronic properties of Co₇M₆ (M= W, Mo, Nb) Âµ phases. Molecular Simulation, 2019, 45, 752-758.	2.0	20
11	First-principles theoretical and experimental studies of effects of ruthenium on precipitation behavior of Î¼ phase and Î¼/matrix interface stability in Ni-based single crystal superalloys. Intermetallics, 2019, 113, 106556.	3.9	19
12	High-performance aluminum-ion batteries based on AlCl₃/caprolactam electrolytes. Sustainable Energy and Fuels, 2020, 4, 121-127.	4.9	18
13	Boron-doping-induced defect engineering enables high performance of a graphene cathode for aluminum batteries. Inorganic Chemistry Frontiers, 2022, 9, 925-934.	6.0	16
14	Atomistic mechanism of phase transformation between topologically close-packed complex intermetallics. Nature Communications, 2022, 13, 2487.	12.8	15
15	Atomic arrangement and formation of planar defects in the Î¼ phase of Ni-base single crystal superalloys. Journal of Alloys and Compounds, 2018, 766, 775-783.	5.5	13
16	Characterization of Ni3Sn intermetallic nanoparticles fabricated by thermal plasma process and catalytic properties for methanol decomposition. Science and Technology of Advanced Materials, 2019, 20, 622-631.	6.1	13
17	3D Lithiophilic and Conductive N-CNT@Cu₂O@Cu Framework for a Dendrite-Free Lithium Metal Battery. Chemistry of Materials, 2020, 32, 9656-9663.	6.7	13
18	Hierarchical Lamellarâ€Structured MnO₂@graphene for High Performance Li, Na and K ion Batteries. ChemistrySelect, 2020, 5, 12481-12486.	1.5	11

#	Article	IF	Citations
19	Heterostructures assembled from graphitic carbon nitride and Ti3C2T MXene as high-capacity cathode for aluminum batteries. Journal of Alloys and Compounds, 2022, 896, 162901.	5.5	10
20	Natural Template-Derived 3D Porous Current Collector for Dendrite-free Lithium Metal Battery. Nano, 2020, 15, 2050033.	1.0	9
21	Novel Niâ€“Feâ€Layered Double Hydroxide Microspheres with Reduced Graphene Oxide for Rechargeable Aluminum Batteries. Energy Technology, 2019, 7, 1900649.	3.8	8
22	Rechargeable Highâ€Capacity Aluminumâ€Nickel Batteries. ChemistrySelect, 2019, 4, 13191-13197.	1.5	8
23	ZnMn bimetallic selenide for rechargeable aluminum batteries. New Journal of Chemistry, 2020, 44, 10203-10206.	2.8	5
24	First-Principles Study of a Tungsten-Free <i>Î³</i>â€“<i>Î³</i>â€² Coâ€“Alâ€“Moâ€“Nb Class Cobalt-Based Superalloy and the Alloying Effect of Ti Addition. Journal of the Physical Society of Japan, 2020, 89, 124714.	1.6	4
25	Characterization and formation of Ïƒ/Î³ interface in Ni-based single crystal superalloys. Materials Research Express, 2017, 4, 116512.	1.6	3
26	Carbon depositionâ€“resistant Ni3Sn nanoparticles with highly stable catalytic activity for methanol decomposition. Applied Catalysis A: General, 2020, 608, 117872.	4.3	3
27	The effects of solutes on precipitated phase/matrix interface stability and their distribution tendencies between the two phases in Co-based superalloys. Computational Materials Science, 2022, 211, 111547.	3.0	3
28	Constructing NiCo₂Se₄/NiCoS₄ heterostructures for high-performance rechargeable aluminum battery cathodes. Inorganic Chemistry Frontiers, 2022, 9, 4041-4048.	6.0	3
29	Intergrowth of P phase with Laves phase C36 in the high Mo-containing nickel-base single crystal superalloy. Materials Research Express, 2019, 6, 046528.	1.6	1
30	Growth twins of R phase in the high Mo-containing nickel-base single crystal superalloy. Materials Research Express, 2018, 5, 126517.	1.6	0
31	Effects of Pressure on the Structural, Mechanical, and Electronic Properties and Debye Temperature of Pdâ€Based Alloy: Firstâ€Principles Calculation. Physica Status Solidi (B): Basic Research, 2021, 258, 2000490.	1.5	0