

Fan Wu

List of Publications by Year in descending order

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34
papers

1,501
citations

304743

22
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

1427
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced sulfide solid electrolyte by core-shell structural design. Nature Communications, 2018, 9, 4037.	12.8	146
2	Progress in thermal stability of all-solid-state lithium ion batteries. Information Materials, 2021, 3, 827-853.	17.3	126
3	Practical evaluation of energy densities for sulfide solid-state batteries. ETransportation, 2019, 1, 100010.	14.8	114
4	Superior All-solid-state Batteries Enabled by a Gas-phase Synthesized Sulfide Electrolyte with Ultrahigh Moisture Stability and Ionic Conductivity. Advanced Materials, 2021, 33, e2100921.	21.0	110
5	Ultrafine SnO ₂ dispersed carbon matrix composites derived by a sol-gel method as anode materials for lithium ion batteries. Electrochimica Acta, 2010, 55, 9067-9074.	5.2	85
6	Interface Magnetism in Epitaxial BiFeO ₃ -La _{0.7} Sr _{0.3} MnO ₃ Heterostructures Integrated on Si(100). Nano Letters, 2013, 13, 5814-5821.	9.1	78
7	Doping strategy and mechanism for oxide and sulfide solid electrolytes with high ionic conductivity. Journal of Materials Chemistry A, 2022, 10, 4517-4532.	10.3	75
8	Long-life Lithium-metal All-solid-state Batteries and Stable Li Plating Enabled by In-situ Formation of Li ₃ PS ₄ in the SEI Layer. Advanced Materials, 2022, 34, .	21.0	66
9	A High-throughput Search for Functionally Stable Interfaces in Sulfide Solid-state Lithium Ion Conductors. Advanced Energy Materials, 2019, 9, 1900807.	19.5	65
10	Water-stable Sulfide Solid Electrolyte Membranes Directly Applicable in All-solid-state Batteries Enabled by Superhydrophobic Li ⁺ -conducting Protection Layer. Advanced Energy Materials, 2022, 12, .	19.5	62
11	Strain-stabilized Ceramic-sulfide Electrolytes. Small, 2019, 15, e1901470.	10.0	57
12	Stable Ni-rich layered oxide cathode for sulfide-based all-solid-state lithium battery. EScience, 2022, 2, 537-545.	41.6	57
13	5V-class sulfurized spinel cathode stable in sulfide all-solid-state batteries. Nano Energy, 2021, 90, 106589.	16.0	53
14	Enhanced dehydrogenation/hydrogenation kinetics of the Mg(NH ₂) ₂ •2LiH system with NaOH additive. International Journal of Hydrogen Energy, 2011, 36, 2137-2144.	7.1	44
15	High Current Density and Long Cycle Life Enabled by Sulfide Solid Electrolyte and Dendrite-free Liquid Lithium Anode. Advanced Functional Materials, 2022, 32, 2105776.	14.9	40
16	Solid state ionics – Selected topics and new directions. Progress in Materials Science, 2022, 126, 100921.	32.8	39
17	Interfacial and cycle stability of sulfide all-solid-state batteries with Ni-rich layered oxide cathodes. Nano Energy, 2022, 100, 107528.	16.0	38
18	Improving thermal stability of sulfide solid electrolytes: An intrinsic theoretical paradigm. Information Materials, 2022, 4, .	17.3	33

#	ARTICLE	IF	CITATIONS
19	A novel dual phase membrane 40 wt% Nd _{0.6} Sr _{0.4} CoO ₃ ∧60 wt% Ce _{0.9} Nd _{0.1} O ₂ : design, synthesis and properties. Journal of Materials Chemistry A, 2018, 6, 84-92.	10.3	32
20	Deposition and characterization of nanostructured Cu ₂ O thin-film for potential photovoltaic applications. Journal of Materials Research, 2013, 28, 1740-1746.	2.6	31
21	SAFIR-3000 Lightning Statistics over the Beijing Metropolitan Region during 2005∧07. Journal of Applied Meteorology and Climatology, 2016, 55, 2613-2633.	1.5	26
22	Energy scavenging based on a single-crystal PMN-PT nanobelt. Scientific Reports, 2016, 6, 22513.	3.3	24
23	Hydrogen storage behaviors and microstructure of MF3 (M=Ti, Fe)-doped magnesium hydride. Transactions of Nonferrous Metals Society of China, 2010, 20, 1879-1884.	4.2	18
24	Reversible Flat to Rippling Phase Transition in Fe Containing Layered Battery Electrode Materials. Advanced Functional Materials, 2018, 28, 1803896.	14.9	18
25	Emerging linear activity trend in the oxygen evolution reaction with dual-active-sites mechanism. Journal of Materials Chemistry A, 2020, 8, 20946-20952.	10.3	17
26	Anisotropic crystallization in solution processed chalcogenide thin film by linearly polarized laser. Applied Physics Letters, 2017, 110, .	3.3	11
27	Photoluminescence of Functionalized Germanium Nanocrystals Embedded in Arsenic Sulfide Glass. ACS Applied Materials & Interfaces, 2017, 9, 18911-18917.	8.0	10
28	In-situ synthesis and defect evolution of single-crystal piezoelectric nanoparticles. Nano Energy, 2016, 28, 195-205.	16.0	9
29	Strain induced room temperature ferromagnetism in epitaxial magnesium oxide thin films. Journal of Applied Physics, 2015, 118, 165309.	2.5	7
30	PMN-PT nanostructures for energy scavenging. Semiconductor Science and Technology, 2017, 32, 063001.	2.0	4
31	Spatial Confinement of a Carbon Nanocone for an Efficient Oxygen Evolution Reaction. Journal of Physical Chemistry Letters, 2021, 12, 2252-2258.	4.6	4
32	Progress in lithium thioborate superionic conductors. Journal of Materials Research, 2022, 37, 3269-3282.	2.6	2
33	Microstructure and Defect Study in Thin Film Heterostructure Materials. Nanoscience and Nanotechnology - Asia, 2020, 10, 109-116.	0.7	0
34	Reversible Flat to Rippling Phase Transition in Fe Containing Layered Battery Electrode Materials. Advanced Functional Materials, 2018, 28, .	14.9	0