

Jianguo Sun

List of Publications by Year in descending order

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48
papers

1,663
citations

304743

22
h-index

289244

40
g-index

48
all docs

48
docs citations

48
times ranked

1944
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydroxyl-Dependent Evolution of Oxygen Vacancies Enables the Regeneration of BiOCl Photocatalyst. ACS Applied Materials & Interfaces, 2017, 9, 16620-16626.	8.0	176
2	Stepwise Electrocatalysis as a Strategy against Polysulfide Shuttling in Li-S Batteries. ACS Nano, 2019, 13, 14208-14216.	14.6	171
3	Introducing Ti ³⁺ defects based on lattice distortion for enhanced visible light photoreactivity in TiO ₂ microspheres. RSC Advances, 2017, 7, 32461-32467.	3.6	99
4	Engineering of the Heterointerface of Porous Carbon Nanofiber-Supported Nickel and Manganese Oxide Nanoparticle for Highly Efficient Bifunctional Oxygen Catalysis. Advanced Functional Materials, 2020, 30, 1910568.	14.9	92
5	Failure Mechanism and Interface Engineering for NASICON-Structured All-Solid-State Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2019, 11, 20895-20904.	8.0	83
6	High-Energy Batteries: Beyond Lithium-Ion and Their Long Road to Commercialisation. Nano-Micro Letters, 2022, 14, 94.	27.0	79
7	Effects of Surface Terminations of 2D Bi ₂ WO ₆ on Photocatalytic Hydrogen Evolution from Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 20067-20074.	8.0	78
8	Enhanced photocatalytic activity induced by sp ³ to sp ² transition of carbon dopants in BiOCl crystals. Applied Catalysis B: Environmental, 2018, 221, 467-472.	20.2	58
9	Surface Reorganization Leads to Enhanced Photocatalytic Activity in Defective BiOCl. Chemistry of Materials, 2018, 30, 5128-5136.	6.7	55
10	Mediator-Assisted Catalysis of Polysulfide Conversion for High-Loading Lithium-Sulfur Batteries Operating Under the Lean Electrolyte Condition. Energy Storage Materials, 2021, 38, 338-343.	18.0	51
11	Recent advances of bismuth based anode materials for sodium-ion batteries. Materials Technology, 2018, 33, 563-573.	3.0	50
12	Substantial doping engineering in Na ₃ V _{2-x} Fe _x (PO ₄) ₃ (0 ≤ x ≤ 0.15) as high-rate cathode for sodium-ion battery. Materials and Design, 2020, 186, 108287.	7.0	48
13	Chemical Bonding Construction of Reduced Graphene Oxide-Anchored Few-Layer Bismuth Oxychloride for Synergistically Improving Sodium-Ion Storage. Chemistry of Materials, 2019, 31, 7311-7319.	6.7	44
14	Elevating the discharge plateau of prussian blue analogs through low-spin Fe redox induced intercalation pseudocapacitance. Energy Storage Materials, 2021, 43, 182-189.	18.0	43
15	A Robust Solid-Solid Interface Using Sodium-Tin Alloy Modified Metallic Sodium Anode Paving Way for All-Solid-State Battery. Advanced Energy Materials, 2021, 11, 2101228.	19.5	39
16	Atomic defects in ultra-thin mesoporous TiO ₂ enhance photocatalytic hydrogen evolution from water splitting. Applied Surface Science, 2020, 513, 145723.	6.1	37
17	Enhanced polysulfide conversion catalysis in lithium-sulfur batteries with surface cleaning electrolyte additives. Chemical Engineering Journal, 2021, 410, 128284.	12.7	37
18	Flexible, stable, fast-ion-conducting composite electrolyte composed of nanostructured Na-super-ion-conductor framework and continuous Poly(ethylene oxide) for all-solid-state Na battery. Journal of Power Sources, 2020, 454, 227949.	7.8	34

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19	Insight into the structure-capacity relationship in biomass derived carbon for high-performance sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 62, 497-504.	12.9	34
20	Intrinsic low sodium/NASICON interfacial resistance paving the way for room temperature sodium-metal battery. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 418-426.	9.4	28
21	Zincophilic 3D ZnOHF nanowire arrays with ordered and continuous Zn ²⁺ Ion modulation layer enable long-term stable Zn metal anodes. <i>Energy Storage Materials</i> , 2022, 50, 435-443.	18.0	28
22	Facile aqueous synthesis of high performance Na ₂ FeM(SO ₄) ₃ (M = Tj, ET, Q, O, O, rg, BT) / Overlock 2728-2740.	10.3	25
23	Dual-Nitrogen-Doped Carbon Decorated on Na ₃ V ₂ (PO ₄) ₃ to Stabilize the Intercalation of Three Sodium Ions. <i>ACS Applied Energy Materials</i> , 2020, 3, 6870-6879.	5.1	23
24	Ferroelectric Engineered Electrode/Composite Polymer Electrolyte Interfaces for All-Solid-State Sodium Metal Battery. <i>Advanced Science</i> , 2022, 9, e2105849.	11.2	22
25	Highly conductive lithium aluminum germanium phosphate solid electrolyte prepared by sol-gel method and hot-pressing. <i>Solid State Ionics</i> , 2020, 350, 115320.	2.7	21
26	Alleviating mechanical degradation of hexacyanoferrate via strain locking during Na ⁺ insertion/extraction for full sodium ion battery. <i>Nano Research</i> , 2022, 15, 2123-2129.	10.4	21
27	Size-dependent crystalline fluctuation and growth mechanism of bismuth nanoparticles under electron beam irradiation. <i>Nanoscale</i> , 2016, 8, 12282-12288.	5.6	19
28	Singularity properties of killing magnetic curves in Minkowski 3-space. <i>International Journal of Geometric Methods in Modern Physics</i> , 2019, 16, 1950123.	2.0	19
29	Reversibly tuning the surface state of Ag via the assistance of photocatalysis in Ag/BiOCl. <i>Nanotechnology</i> , 2019, 30, 305601.	2.6	16
30	BiOCl Nanosheets with Controlled Exposed Facets and Improved Photocatalytic Activity. <i>Catalysis Letters</i> , 2017, 147, 2006-2012.	2.6	15
31	Evolution of Oxyhalide Crystals under Electron Beam Irradiation: An in Situ Method To Understand the Origin of Structural Instability. <i>Inorganic Chemistry</i> , 2018, 57, 8988-8993.	4.0	15
32	Decomposition failure of Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ solid electrolytes induced by electric field: A multi-scenario study using Scanning Probe Microscopy-based techniques. <i>Journal of Power Sources</i> , 2020, 471, 228468.	7.8	15
33	Abnormal Ionic Conductivities in Halide NaBi ₃ O ₄ Cl ₂ Induced by Absorbing Water and a Derived Oxhydryl Group. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8991-8997.	13.8	13
34	An integrated approach to improve the performance of lean electrolyte lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2022, 67, 585-592.	12.9	12
35	Fe-P-S electrodes for all-solid-state lithium secondary batteries using sulfide-based solid electrolytes. <i>Journal of Power Sources</i> , 2020, 449, 227576.	7.8	11
36	Abnormal Phenomena of Multi-Way Sodium Storage in Selenide Electrode. <i>Advanced Functional Materials</i> , 2021, 31, 2102406.	14.9	9

#	ARTICLE	IF	CITATIONS
37	Singularity properties of null killing magnetic curves in Minkowski 3-space. International Journal of Geometric Methods in Modern Physics, 2020, 17, 2050141.	2.0	8
38	Doping Induced Hierarchical Lattice Expansion of Cobalt Diselenide/Carbon Nanosheet Hybrid for Fast and Stable Sodium Storage. Cell Reports Physical Science, 2020, 1, 100082.	5.6	7
39	Direct evidence of an unanticipated crystalline phase responsible for the high performance of few-layered-MoS ₂ anodes for Na-ion batteries. Energy Storage Materials, 2022, 48, 314-324.	18.0	6
40	Ammonium escorted chloride chemistry in stabilizing aqueous chloride ion battery. Materials Today Energy, 2022, 26, 101020.	4.7	6
41	Scalable Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ thin membrane prepared by tape-casting for large-scale lithium-air battery application. Materials Technology, 2020, 35, 572-579.	3.0	4
42	Deciphering and suppressing the cathode dissolution catastrophe in aqueous rechargeable dual ion battery. Functional Materials Letters, 0, , .	1.2	4
43	Threshold Dynamics and the Density Function of the Stochastic Coronavirus Epidemic Model. Fractal and Fractional, 2022, 6, 245.	3.3	3
44	The Geometrical Characterizations of the Bertrand Curves of the Null Curves in Semi-Euclidean 4-Space. Mathematics, 2021, 9, 3294.	2.2	2
45	The Equations and Characteristics of the Magnetic Curves in the Sphere Space. Advances in Mathematical Physics, 2019, 2019, 1-8.	0.8	1
46	Abnormal Ionic Conductivities in Halide NaBi ₃ O ₄ Cl ₂ Induced by Absorbing Water and a Derived Oxhydryl Group. Angewandte Chemie, 2020, 132, 9076-9082.	2.0	1
47	On the Dynamics Behaviors of a Stochastic Echinococcosis Infection Model with Environmental Noise. Discrete Dynamics in Nature and Society, 2021, 2021, 1-18.	0.9	1
48	Supper lattice structure transformation based on nonstoichiometric bismuth oxychloride. Microscopy and Microanalysis, 2017, 23, 1676-1677.	0.4	0