

Jian Wang

List of Publications by Year in descending order

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1,948
citations

236833

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#	ARTICLE	IF	CITATIONS
1	Electrochemical Kinetic Modulators in Lithium–Sulfur Batteries: From Defect-Rich Catalysts to Single Atomic Catalysts. <i>Energy and Environmental Materials</i> , 2022, 5, 731-750.	7.3	89
2	Interfacial lithium-nitrogen bond catalyzes sulfide oxidation reactions in high-loading Li ₂ S cathode. <i>Chemical Engineering Journal</i> , 2022, 429, 132352.	6.6	18
3	Highly charged hydrogel with enhanced donnan exclusion toward ammonium for efficient solar-driven water remediation. <i>Chemical Engineering Journal</i> , 2022, 430, 133019.	6.6	15
4	Construction of Moisture-Stable Lithium Diffusion Controlling Layer toward High Performance Dendrite-Free Lithium Anode. <i>Advanced Functional Materials</i> , 2022, 32, 2110468.	7.8	32
5	Advances and Prospects of 2D Graphene-Based Materials/Hybrids for Lithium Metal–Sulfur Full Battery: From Intrinsic Property to Catalysis Modification. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	2.8	14
6	Optimizations of Graphitic Carbon/Silicon Hybrids for Scalable Preparation with High-Performance Lithium-Ion Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5590-5598.	3.2	12
7	Janus Electrolyte with Modified Li ⁺ Solvation for High-Performance Solid-State Lithium Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	30
8	Robust interfacial engineering construction to alleviate polysulfide shuttling in metal sulfide electrodes for achieving Fast-charge High-capacity lithium storages. <i>Chemical Engineering Journal</i> , 2022, 446, 137291.	6.6	13
9	Tuning 4f-Center Electron Structure by Schottky Defects for Catalyzing Li Diffusion to Achieve Long-Term Dendrite-Free Lithium Metal Battery. <i>Advanced Science</i> , 2022, 9, .	5.6	24
10	Unraveling Shuttle Effect and Suppression Strategy in Lithium/Sulfur Cells by In Situ/Operando X-ray Absorption Spectroscopic Characterization. <i>Energy and Environmental Materials</i> , 2021, 4, 222-228.	7.3	31
11	In Situ Self-Assembly of Ordered Organic/Inorganic Dual-Layered Interphase for Achieving Long-Life Dendrite-Free Li Metal Anodes in LiFSI-Based Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2007434.	7.8	65
12	Anionic oxygen vacancies in Nb ₂ O ₅ -carbon hybrid host endow rapid catalytic behaviors for high-performance high areal loading lithium sulfur pouch cell. <i>Chemical Engineering Journal</i> , 2021, 417, 128172.	6.6	40
13	Long-Life Dendrite-Free Lithium Metal Electrode Achieved by Constructing a Single Metal Atom Anchored in a Diffusion Modulator Layer. <i>Nano Letters</i> , 2021, 21, 3245-3253.	4.5	64
14	Lithiophilic V ₂ O ₅ nanobelt arrays decorated 3D framework hosts for highly stable composite lithium metal anodes. <i>Chemical Engineering Journal</i> , 2020, 384, 123313.	6.6	68
15	Extending Cycle Life of Mg/S Battery by Activation of Mg Anode/Electrolyte Interface through an LiCl-Assisted MgCl ₂ Solubilization Mechanism. <i>Advanced Functional Materials</i> , 2020, 30, 1909370.	7.8	49
16	Combined <i>In Situ</i> Spectroscopies Reveal the Ligand Ordering-Modulated Photoluminescence of Upconverting Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23086-23093.	1.5	6
17	<i>In situ</i> -grown tungsten carbide nanoparticles on nanocarbon as an electrocatalyst to promote the redox reaction kinetics of high-mass loading sulfur cathode for high volumetric performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22240-22250.	5.2	19
18	Asymmetric gel polymer electrolyte with high lithium ion conductivity for dendrite-free lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8033-8040.	5.2	93

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19	Iron vacancies and surface modulation of iron disulfide nanoflowers as a high power/energy density cathode for ultralong-life stable Li storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14769-14777.	5.2	23
20	Flow Alters the Interfacial Reactions of Upconversion Nanocrystals Probed by In Situ Sum Frequency Generation. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902046.	1.9	11
21	Multi-ion Modulated Single-Step Synthesis of a Nanocarbon Embedded with a Defect-Rich Nanoparticle Catalyst for a High Loading Sulfur Cathode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12727-12735.	4.0	27
22	Single atomic cobalt catalyst significantly accelerates lithium ion diffusion in high mass loading Li ₂ S cathode. <i>Energy Storage Materials</i> , 2020, 28, 375-382.	9.5	92
23	Single-Atom Catalysts Embedded on Nanocarbon Supports for High Energy Density Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2020, 13, 3404-3411.	3.6	41
24	High-performance Oxygen Evolution Catalyst Enabled by Interfacial Effect between CeO ₂ and FeNi Metal-organic Framework. <i>Acta Chimica Sinica</i> , 2020, 78, 355.	0.5	6
25	Hierarchical Sulfur-Doped Graphene Foam Embedded with Sn Nanoparticles for Superior Lithium Storage in LiFSI-Based Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30500-30507.	4.0	27
26	Coupling Niobia Nanorods with a Multicomponent Carbon Network for High Power Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44196-44203.	4.0	14
27	Synergistic Catalytic Effect of Ion Tunnels with Polar Dopants to Boost the Electrochemical Kinetics for High-Performance Sulfur Cathodes. <i>ChemElectroChem</i> , 2019, 6, 5051-5059.	1.7	11
28	Fe ³⁺ -codoped ultra-small NaGdF ₄ :Nd ³⁺ nanophosphors: enhanced near-infrared luminescence, reduced particle size and bioimaging applications. <i>RSC Advances</i> , 2019, 9, 18070-18075.	1.7	4
29	High areal capacity flexible sulfur cathode based on multi-functionalized super-aligned carbon nanotubes. <i>Nano Research</i> , 2019, 12, 1105-1113.	5.8	28
30	Confinement of sulfur species into heteroatom-doped, porous carbon container for high areal capacity cathode. <i>Chemical Engineering Journal</i> , 2019, 368, 340-349.	6.6	26
31	Single-atom catalyst boosts electrochemical conversion reactions in batteries. <i>Energy Storage Materials</i> , 2019, 18, 246-252.	9.5	203
32	High-performance graphdiyne-based electrochemical actuators. <i>Nature Communications</i> , 2018, 9, 752.	5.8	268
33	Hierarchical Structure Formation and Effect Mechanism of Ni/Mn Layered Double Hydroxides Microspheres with Large-Scale Production for Flexible Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2018, 1, 2242-2253.	2.5	27
34	Improved cycling stability of the capping agent-free nanocrystalline FeS ₂ cathode via an upper cut-off voltage control. <i>Journal of Materials Science</i> , 2017, 52, 2442-2451.	1.7	20
35	Robust electrical "highway" network for high mass loading sulfur cathode. <i>Nano Energy</i> , 2017, 40, 390-398.	8.2	68
36	Conductive bridging effect of TiN nanoparticles on the electrochemical performance of TiN@CNT-S composite cathode. <i>Electrochimica Acta</i> , 2017, 250, 159-166.	2.6	49

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37	Progress of Lithium/Sulfur Batteries Based on Chemically Modified Carbon. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2017, 33, 165-182.	2.2	15
38	915 nm Light-Triggered Photodynamic Therapy and MR/CT Dual-Modal Imaging of Tumor Based on the Nonstoichiometric Na _{0.52} YbF _{3.52} :Er Upconversion Nanoprobes. <i>Small</i> , 2016, 12, 4200-4210.	5.2	50
39	Simultaneous optimization of surface chemistry and pore morphology of 3D graphene-sulfur cathode via multi-ion modulation. <i>Journal of Power Sources</i> , 2016, 321, 193-200.	4.0	46
40	Synthesis, Crystal Structure, and Electrochemical Properties of a Simple Magnesium Electrolyte for Magnesium/Sulfur Batteries. <i>Angewandte Chemie</i> , 2016, 128, 6516-6520.	1.6	38
41	Synthesis, Crystal Structure, and Electrochemical Properties of a Simple Magnesium Electrolyte for Magnesium/Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6406-6410.	7.2	106
42	Redox-induced reversible luminescence switching of cerium-doped upconversion nanoparticles. <i>Journal of Luminescence</i> , 2016, 173, 66-72.	1.5	11
43	A high energy density Li ₂ S@C nanocomposite cathode with a nitrogen-doped carbon nanotube top current collector. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18913-18919.	5.2	55