

Jiujun Zhang

List of Publications by Year in descending order

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381
papers

48,866
citations

4345

89
h-index

2072

211
g-index

391
all docs

391
docs citations

391
times ranked

43911
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel design and synthesis of 1D bamboo-like CNTs@Sn ₄ P ₃ @C coaxial nanotubes for long-term sodium ion storage. <i>Green Energy and Environment</i> , 2022, 7, 1199-1205.	4.7	7
2	Regulating non-precious transition metal nitrides bifunctional electrocatalysts through surface/interface nanoengineering for air-cathodes of Zn-air batteries. <i>Green Energy and Environment</i> , 2022, 7, 16-34.	4.7	36
3	A durable P2-type layered oxide cathode with superior low-temperature performance for sodium-ion batteries. <i>Science China Materials</i> , 2022, 65, 328-336.	3.5	22
4	An integrated flexible film as cathode for High-Performance Lithium–Sulfur battery. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1627-1635.	5.0	7
5	A review of nickel-rich layered oxide cathodes: synthetic strategies, structural characteristics, failure mechanism, improvement approaches and prospects. <i>Applied Energy</i> , 2022, 305, 117849.	5.1	44
6	Boosting practical high voltage lithium metal batteries by butyronitrile in ether electrolytes via coordination, hydrolysis of C N and relatively mild concentration strategy. <i>Journal of Energy Chemistry</i> , 2022, 67, 290-299.	7.1	10
7	ZnS anchored on porous N, S-codoped carbon as superior oxygen reduction reaction electrocatalysts for Al-air batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 868-877.	5.0	6
8	Polaron in TiO ₂ from First-Principles: A Review. <i>Advanced Theory and Simulations</i> , 2022, 5, 2100244.	1.3	10
9	A Review of Performance Attenuation and Mitigation Strategies of Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, 2107769.	7.8	43
10	Bifunctional water splitting enhancement by manipulating Mo-H bonding energy of transition Metal-Mo ₂ C heterostructure catalysts. <i>Chemical Engineering Journal</i> , 2022, 431, 134126.	6.6	49
11	Prussian blue analogues derived electrocatalyst with multicatalytic centers for boosting oxygen reduction reaction in the wide pH range. <i>Journal of Colloid and Interface Science</i> , 2022, 612, 639-649.	5.0	15
12	Less-Energy Consumed Hydrogen Evolution Coupled with Electrocatalytic Removal of Ethanolamine Pollutant in Saline Water over Ni@Ni ₃ S ₂ /CNT Nano-Heterostructured Electrocatalysts. <i>Small Methods</i> , 2022, 6, e2101195.	4.6	10
13	Perspective for Single Atom Nanozymes Based Sensors: Advanced Materials, Sensing Mechanism, Selectivity Regulation, and Applications. <i>Analytical Chemistry</i> , 2022, 94, 1499-1509.	3.2	37
14	Novel Dithiolene Nickel Complex Catalysts for Electrochemical Hydrogen Evolution Reaction for Hydrogen Production in Nonaqueous and Aqueous Solutions. <i>Electrocatalysis</i> , 2022, 13, 230.	1.5	6
15	Adina Rubella-Like Microsized SiO@N-Doped Carbon Grafted with N-Doped Carbon Nanotubes as Anodes for High-Performance Lithium Storage. <i>Small Science</i> , 2022, 2, .	5.8	33
16	A review of sodium chloride-based electrolytes and materials for electrochemical energy technology. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2637-2671.	5.2	23
17	Construction of a High-Stability and Low-Nucleation-Barrier Cu ₃ Sn Alloy Layer on Carbon Paper for Dendrite-Free Li Metal Deposition. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2930-2938.	4.0	8
18	<i>In situ</i> construction of hetero-structured perovskite composites with exsolved Fe and Cu metallic nanoparticles as efficient CO ₂ reduction electrocatalysts for high performance solid oxide electrolysis cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2509-2518.	5.2	30

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19	Toward Excellence of Electrocatalyst Design by Emerging Descriptorâ€œOriented Machine Learning. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	43
20	Enabling Fast Na ⁺ Transfer Kinetics in the Wholeâ€œVoltageâ€œRegion of Hardâ€œCarbon Anodes for Ultrahighâ€œRate Sodium Storage. <i>Advanced Materials</i> , 2022, 34, e2109282.	11.1	108
21	Host-guest supramolecular interaction behavior at the interface between anode and electrolyte for long life Zn anode. <i>Journal of Energy Chemistry</i> , 2022, 69, 237-243.	7.1	34
22	Electrocatalyst nanoarchitectonics with molybdenum-cobalt bimetallic alloy encapsulated in nitrogen-doped carbon for water splitting reaction. <i>Journal of Alloys and Compounds</i> , 2022, 904, 164084.	2.8	29
23	High-efficient carbon dioxide-to-formic acid conversion on bimetallic PbIn alloy catalysts with tuned composition and morphology. <i>Chemosphere</i> , 2022, 293, 133595.	4.2	11
24	One-pot synthesis and multifunctional surface modification of lithium-rich manganese-based cathode for enhanced structural stability and low-temperature performance. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 1-9.	5.0	6
25	Layered FeCoNi double hydroxides with tailored surface electronic configurations induced by oxygen and unsaturated metal vacancies for boosting the overall water splitting process. <i>Nanoscale</i> , 2022, 14, 4156-4169.	2.8	10
26	Enhancement Effect of Chemisorbed Sulfate toward Electrochemical Oxidation of Ethanol on Platinum Electrodes. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3397-3403.	1.5	8
27	Structure adapting of bulk FeS ₂ micron particles and the corresponding anode for high performance sodium-ion batteries. <i>Journal of Materiomics</i> , 2022, 8, 1278-1286.	2.8	3
28	Synthesis and Characterization of Poly(5â€œHexyloxyâ€œ1,4â€œbiphenyl)â€œ <i>poly(2â€œ4â€œbispropoxysulfonateâ€œ1,4â€œbiphenyl)</i> with High Ion Exchange Capacity for Proton Exchange Membrane Fuel Cell Applications. <i>Chemistry - an Asian Journal</i> , 2022, , .	4.6	2
29	Interfacial Engineering of Twoâ€œDimensional MoN/MoO ₂ Heterostructure Nanosheets as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	9
30	Lessâ€œEnergy Consumed Hydrogen Evolution Coupled with Electrocatalytic Removal of Ethanolamine Pollutant in Saline Water over Ni@Ni ₃ S ₂ /CNT Nanoâ€œHeterostructured Electrocatalysts (Small Methods 3/2022). <i>Small Methods</i> , 2022, 6, .	4.6	1
31	Densely packed ultrafine SnO ₂ nanoparticles grown on carbon cloth for selective CO ₂ reduction to formate. <i>Journal of Energy Chemistry</i> , 2022, 71, 159-166.	7.1	17
32	Novel Polymer/Barium Intercalated Vanadium Pentoxide with Expanded Interlayer Spacing as High-Rate and Durable Cathode for Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17415-17425.	4.0	16
33	Highâ€œRate Performance of Fluorinated Carbon Material Doped by Phosphorus Species for Lithiumâ€œFluorinated Carbon Battery. <i>Energy Technology</i> , 2022, 10, .	1.8	10
34	Fast and extensive intercalation chemistry in Wadsley-Roth phase based high-capacity electrodes. <i>Journal of Energy Chemistry</i> , 2022, 69, 601-611.	7.1	6
35	The effect of coordination environment on the activity and selectivity of single-atom catalysts. <i>Coordination Chemistry Reviews</i> , 2022, 461, 214493.	9.5	91
36	Feâ€œNâ€œC single-atom nanozymes based sensor array for dual signal selective determination of antioxidants. <i>Biosensors and Bioelectronics</i> , 2022, 205, 114097.	5.3	45

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37	Regulating the Electron Localization of Metallic Bismuth for Boosting CO ₂ Electroreduction. Nano-Micro Letters, 2022, 14, 38.	14.4	21
38	Moderate Specific Surface Areas Help Three-Dimensional Frameworks Achieve Dendrite-Free Potassium-Metal Anodes. ACS Applied Materials & Interfaces, 2022, 14, 900-909.	4.0	16
39	Modulating the Graphitic Domains of Hard Carbons Derived from Mixed Pitch and Resin to Achieve High Rate and Stable Sodium Storage. Small, 2022, 18, e2105568.	5.2	47
40	Electronic structural modulation of bismuth catalysts induced by sulfur and oxygen co-doping for promoting CO ₂ electroreduction. Dalton Transactions, 2022, 51, 7223-7233.	1.6	3
41	Zeolitic imidazolate framework-derived composites with SnO ₂ and ZnO phase components for electrocatalytic carbon dioxide reduction. Dalton Transactions, 2022, 51, 7274-7283.	1.6	8
42	Facile Synthesis of Surfactant-Induced Platinum Nanospheres with a Porous Network Structure for Highly Effective Oxygen Reduction Catalysis. Chemistry - an Asian Journal, 2022, 17, .	1.7	8
43	In Situ Anchoring Anion-Rich and Multi-Cavity NiS ₂ Nanoparticles on NCNTs for Advanced Magnesium-Ion Batteries. Advanced Science, 2022, 9, e2200067.	5.6	23
44	Electronic synergy to boost the performance of NiCoP-NWs@FeCoP-NSs anodes for flexible lithium-ion batteries. Nanoscale, 2022, 14, 8398-8408.	2.8	5
45	Sub-zero temperature electrolytes for lithium-sulfur batteries: Functional mechanisms, challenges and perspectives. Chemical Engineering Journal, 2022, 443, 136637.	6.6	12
46	Mesoporous Ti ₄ O ₇ Nanosheets with High Polar Surface Area for Catalyzing Separator to Reduce the Shuttle Effect of Soluble Polysulfides in Lithium-Sulfur Batteries. Chemistry - an Asian Journal, 2022, 17, .	1.7	2
47	Facile carbon cloth activation strategy to boost oxygen reduction reaction performance for flexible zinc-air battery application. , 2022, 4, 762-775.		6
48	High efficiency UOR electrocatalyst based on crossed nanosheet structured FeCo-LDH for hydrogen production. Applied Catalysis A: General, 2022, 643, 118745.	2.2	18
49	Three-dimensional nitrogen-doped MXene as support to form high-performance platinum catalysts for water-electrolysis to produce hydrogen. Chemical Engineering Journal, 2022, 446, 137443.	6.6	18
50	Dual-template strategy for electrocatalyst of cobalt nanoparticles encapsulated in nitrogen-doped carbon nanotubes for oxygen reduction reaction. Journal of Colloid and Interface Science, 2021, 581, 523-532.	5.0	19
51	Enhanced photoelectrochemical water-splitting performance with a hierarchical heterostructure: Co ₃ O ₄ nanodots anchored TiO ₂ @P-C ₃ N ₄ core-shell nanorod arrays. Chemical Engineering Journal, 2021, 404, 126458.	6.6	56
52	Turning on Zn 4s Electrons in a N ₂ -Zn ₂ Configuration to Stimulate Remarkable ORR Performance. Angewandte Chemie, 2021, 133, 183-187.	1.6	42
53	Reconstruction of pH-universal atomic Fe N C catalysts towards oxygen reduction reaction. Journal of Colloid and Interface Science, 2021, 582, 1033-1040.	5.0	29
54	Hollow NiSe Nanocrystals Heterogenized with Carbon Nanotubes for Efficient Electrocatalytic Methanol Upgrading to Boost Hydrogen Co-Production. Advanced Functional Materials, 2021, 31, 2008812.	7.8	84

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55	Sandwich-structured graphene hollow spheres limited Mn ₂ SnO ₄ /SnO ₂ heterostructures as anode materials for high-performance lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 1-10.	5.0	23
56	High temperature proton exchange membrane fuel cells: progress in advanced materials and key technologies. <i>Chemical Society Reviews</i> , 2021, 50, 1138-1187.	18.7	341
57	Enhanced Fe 3d delocalization and moderate spin polarization in Fe Ni atomic pairs for bifunctional ORR and OER electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119778.	10.8	131
58	Progress in and application prospects of advanced and cost-effective iron (Fe)-based cathode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1938-1969.	5.2	65
59	Nanoporous structured Sn@MWCNT/Cu electrodes fabricated by electrodeposition chemical dezincification for catalytic CO ₂ reduction. <i>International Journal of Energy Research</i> , 2021, 45, 6273-6284.	2.2	2
60	Metal chalcogenide-associated catalysts enabling CO ₂ electroreduction to produce low-carbon fuels for energy storage and emission reduction: catalyst structure, morphology, performance, and mechanism. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2526-2559.	5.2	26
61	Turning on Zn 4s Electrons in a N ₂ @ZnB ₂ Configuration to Stimulate Remarkable ORR Performance. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 181-185.	7.2	161
62	Acid-treated multi-walled carbon nanotubes as additives for negative active materials to improve high-rate-partial-state-of-charge cycle-life of lead-acid batteries. <i>RSC Advances</i> , 2021, 11, 15273-15283.	1.7	10
63	Dendrite-free lithium and sodium metal anodes with deep plating/stripping properties for lithium and sodium batteries. , 2021, 3, 153-166.		47
64	A closed-loop regeneration of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ and graphite from spent batteries via efficient lithium supplementation and structural remodelling. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4981-4991.	2.5	21
65	MOF-based electrocatalysts for high-efficiency CO ₂ conversion: structure, performance, and perspectives. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22710-22728.	5.2	20
66	Biomimetic synthesis of Na ₃ V ₂ (PO ₄) ₃ nanoparticles wrapped with 3D porous carbon as high-performance cathode for sodium-ion batteries. <i>Ionics</i> , 2021, 27, 1165-1175.	1.2	16
67	Recent progress of MXenes and MXene-based nanomaterials for the electrocatalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6089-6108.	5.2	128
68	Catalytically active sites of MOF-derived electrocatalysts: synthesis, characterization, theoretical calculations, and functional mechanisms. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20320-20344.	5.2	37
69	Surface-tuned two-dimension MXene scaffold for highly reversible zinc metal anode. <i>Chinese Chemical Letters</i> , 2021, 32, 2899-2903.	4.8	33
70	An overview of modification strategies to improve LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ (NCM811) cathode performance for automotive lithium-ion batteries. <i>ETransportation</i> , 2021, 7, 100105.	6.8	75
71	Non-noble Metal Electrocatalysts for the Hydrogen Evolution Reaction in Water Electrolysis. <i>Electrochemical Energy Reviews</i> , 2021, 4, 473-507.	13.1	224
72	An overview of non-noble metal electrocatalysts and their associated air cathodes for Mg-air batteries. <i>Materials Reports Energy</i> , 2021, 1, 100002.	1.7	12

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73	Regulating Zn Deposition via an Artificial Solidâ€“Electrolyte Interface with Aligned Dipoles for Long Life Zn Anode. Nano-Micro Letters, 2021, 13, 79.	14.4	117
74	Advanced Noncarbon Materials as Catalyst Supports and Non-noble Electrocatalysts for Fuel Cells and Metalâ€“Air Batteries. Electrochemical Energy Reviews, 2021, 4, 336-381.	13.1	120
75	Potassiumâ€“Ion Activating Formation of Feâˆ“Nâˆ“C Moiety as Efficient Oxygen Electrocatalyst for Znâ€“Air Batteries. ChemElectroChem, 2021, 8, 1298-1306.	1.7	10
76	Recent advances in semimetallic pnictogen (As, Sb, Bi) based anodes for sodium-ion batteries: Structural design, charge storage mechanisms, key challenges and perspectives. Nano Research, 2021, 14, 3690-3723.	5.8	30
77	Solid Oxide Electrolysis of H ₂ O and CO ₂ to Produce Hydrogen and Low-Carbon Fuels. Electrochemical Energy Reviews, 2021, 4, 508-517.	13.1	69
78	Metathesis Reaction to Form Nanosheet-Structured Co(OH) ₂ Deposited on N-Doped Carbon as Composite Electrocatalysts for Oxygen Reduction. ACS Applied Energy Materials, 2021, 4, 4165-4172.	2.5	14
79	Folic Acid Self-Assembly Enabling Manganese Single-Atom Electrocatalyst for Selective Nitrogen Reduction to Ammonia. Nano-Micro Letters, 2021, 13, 125.	14.4	39
80	Boosting Electrocatalytic Performance of Co(OH) ₂ /NC for Oxygen Reduction Reaction by a Secondary-N-Doping Strategy. Journal of the Electrochemical Society, 2021, 168, 054520.	1.3	3
81	Carbon-Decorated Na ₃ V ₂ (PO ₄) ₃ as Ultralong Lifespan Cathodes for High-Energy-Density Symmetric Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 25036-25043.	4.0	55
82	Enhancement of the electrochemical performances for LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ at high cut-off voltage by an effective dual-coating. Ionics, 2021, 27, 3239-3249.	1.2	3
83	Flexible S@C-CNTs cathodes with robust mechanical strength via blade-coating for lithium-sulfur batteries. Journal of Colloid and Interface Science, 2021, 592, 448-454.	5.0	24
84	A NOVEL CLOSED LOOP PROCESS FOR RECYCLING SPENT Li-ION BATTERY CATHODE MATERIALS. International Journal of Green Energy, 2021, 18, 1597-1612.	2.1	7
85	Enhanced performance of atomically dispersed dual-site Fe-Mn electrocatalysts through cascade reaction mechanism. Applied Catalysis B: Environmental, 2021, 288, 120021.	10.8	104
86	A review of carbon dots and their composite materials for electrochemical energy technologies. , 2021, 3, 795-826.		77
87	Recent Progress in Amorphous Carbonâ€“Based Materials for Anodes of Sodiumâ€“Ion Batteries: Synthesis Strategies, Mechanisms, and Performance. ChemSusChem, 2021, 14, 3693-3723.	3.6	32
88	Understanding the Roles of Electrogenerated Co ³⁺ and Co ⁴⁺ in Selectivityâ€“Tuned 5â€“Hydroxymethylfurfural Oxidation. Angewandte Chemie, 2021, 133, 20698-20705.	1.6	25
89	Understanding the Roles of Electrogenerated Co ³⁺ and Co ⁴⁺ in Selectivityâ€“Tuned 5â€“Hydroxymethylfurfural Oxidation. Angewandte Chemie - International Edition, 2021, 60, 20535-20542.	7.2	121
90	Wide Working Temperature Range Rechargeable Lithiumâ€“Sulfur Batteries: A Critical Review. Advanced Functional Materials, 2021, 31, 2107136.	7.8	43

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91	Controllable Heterojunctions with a Semicoherent Phase Boundary Boosting the Potassium Storage of CoSe ₂ /FeSe ₂ (Adv. Mater. 37/2021). Advanced Materials, 2021, 33, 2170288.	11.1	2
92	Boosting Oxygen Reduction Catalysis Through Electronic Reconfiguration of Fe-N-C Induced by P Doping. Electrocatalysis, 2021, 12, 747-758.	1.5	6
93	Sodium Superionic Conductors (NASICONs) as Cathode Materials for Sodium-Ion Batteries. Electrochemical Energy Reviews, 2021, 4, 793-823.	13.1	59
94	Boosting carbon monoxide production during CO ₂ reduction reaction via Cu-Sb ₂ O ₃ interface cooperation. Journal of Colloid and Interface Science, 2021, 601, 661-668.	5.0	10
95	Electrochemical reduction of carbon dioxide (CO ₂): bismuth-based electrocatalysts. Journal of Materials Chemistry A, 2021, 9, 13770-13803.	5.2	55
96	Vacancy-engineered MoO ₃ and Na ⁺ -preinserted MnO ₂ in situ grown N-doped graphene nanotubes as electrode materials for high-performance asymmetric supercapacitors. Journal of Materials Chemistry A, 2021, 9, 20794-20806.	5.2	15
97	Perspectives for Single-Atom Nanozymes: Advanced Synthesis, Functional Mechanisms, and Biomedical Applications. Analytical Chemistry, 2021, 93, 1221-1231.	3.2	86
98	High-rate performance aqueous-based supercapacitors at ~30 °C driven by novel 1D Ni(OH) ₂ nanorods and a two-solute electrolyte. Journal of Materials Chemistry A, 2021, 9, 23860-23872.	5.2	21
99	Realizing Spherical Lithium Deposition by In Situ Formation of a Li ₂ S/Li-Sn Alloy Mixed Layer on Carbon Paper for Stable and Safe Li Metal Anodes. ACS Applied Materials & Interfaces, 2021, 13, 48828-48837.	4.0	10
100	Unraveling the Enhanced Kinetics of Sr ₂ Fe _{1+x} Mo _{1-x} O ₆ Electro-catalysts for High-Performance Solid Oxide Cells. Advanced Energy Materials, 2021, 11, 2102845.	10.2	41
101	Facile template-free synthesis of mesoporous cobalt sulfide for high-performance hybrid supercapacitors. Journal of Materials Science: Materials in Electronics, 2021, 32, 28663.	1.1	0
102	Borohydride Substitution Effects of Li ₆ PS ₅ Cl Solid Electrolyte. ACS Applied Energy Materials, 2021, 4, 12079-12083.	2.5	9
103	Dual Enhancement of Sodium Storage Induced through Both S-Compositing and Co-Doping Strategies. ACS Applied Materials & Interfaces, 2021, 13, 54043-54058.	4.0	3
104	Coupling efficient biomass upgrading with H ₂ production via bifunctional Cu _x S@NiCo-LDH core-shell nanoarray electrocatalysts. Journal of Materials Chemistry A, 2020, 8, 1138-1146.	5.2	132
105	Hierarchical molybdenum phosphide coupled with carbon as a whole pH-range electrocatalyst for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2020, 260, 118196.	10.8	142
106	Novel Bi, BiSn, Bi ₂ Sn, Bi ₃ Sn, and Bi ₄ Sn Catalysts for Efficient Electroreduction of CO ₂ to Formic Acid. Industrial & Engineering Chemistry Research, 2020, 59, 6806-6814.	1.8	32
107	Co-Ni Binary Metal Oxide Coated with Porous Carbon Derived from Metal-Organic Framework as Host of Nano-Sulfur for Lithium-Sulfur Batteries. Batteries and Supercaps, 2020, 3, 108-116.	2.4	38
108	Structural phase transformation from SnS ₂ /reduced graphene oxide to SnS/sulfur-doped graphene and its lithium storage properties. Nanoscale, 2020, 12, 1697-1706.	2.8	29

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109	Facile synthesis of bimetallic zeolite imidazolate framework with enhanced lithium storage performance. <i>Ionics</i> , 2020, 26, 2107-2115.	1.2	5
110	Self-supported GaN nanowires with cation-defects, lattice distortion, and abundant active sites for high-rate lithium-ion storage. <i>Nano Energy</i> , 2020, 68, 104376.	8.2	33
111	Interfacial Electronic Modulation of Multishelled CoP Hollow Spheres via Surface Reconstruction for High-Efficient Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 309-318.	2.5	26
112	A Multifunctional Separator Enables Safe and Durable Lithium/Magnesium Sulfur Batteries under Elevated Temperature. <i>Advanced Energy Materials</i> , 2020, 10, 1902023.	10.2	51
113	Rechargeable Zn-MnO ₂ batteries: advances, challenges and perspectives. <i>Nanotechnology</i> , 2020, 31, 122001.	1.3	76
114	Improved electrochemical reversibility of Zn plating/stripping: a promising approach to suppress water-induced issues through the formation of H-bonding. <i>Materials Today Energy</i> , 2020, 18, 100563.	2.5	82
115	Enhanced oxygen reduction kinetics by a porous heterostructured cathode for intermediate temperature solid oxide fuel cells. <i>Energy and AI</i> , 2020, 2, 100027.	5.8	17
116	Sb ₂ S ₃ @SnO ₂ hetero-nanocomposite as high-performance anode material for sodium-ion battery. <i>International Journal of Green Energy</i> , 2020, 17, 1044-1050.	2.1	5
117	Recent progress in noble metal nanocluster and single atom electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22467-22487.	5.2	92
118	A review of advanced metal-free carbon catalysts for oxygen reduction reactions towards the selective generation of hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20849-20869.	5.2	88
119	Ni ₂ P nanoparticle-incorporated reduced graphene oxide & carbon nanotubes to form flexible free-standing intertwining network film anodes for long-life sodium-ion storage. <i>Journal of Materials Science</i> , 2020, 55, 14491-14500.	1.7	5
120	Sequence-Defined Peptoids with γ -OH and γ -COOH Groups As Binders to Reduce Cracks of Si Nanoparticles of Lithium-Ion Batteries. <i>Advanced Science</i> , 2020, 7, 2000749.	5.6	38
121	Directly visualizing and exploring local heterointerface with high electro-catalytic activity. <i>Nano Energy</i> , 2020, 78, 105236.	8.2	31
122	Progress in energy-related graphyne-based materials: advanced synthesis, functional mechanisms and applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21408-21433.	5.2	41
123	Novel MOF-Derived Nickel Nitride as High-Performance Bifunctional Electrocatalysts for Hydrogen Evolution and Urea Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7414-7422.	3.2	147
124	Improvement of cycling stability and high-temperature performance of Li[Ni _{0.80} Co _{0.15} Al _{0.05}]O ₂ cathode by thin-layer AlF ₃ coating. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11141-11149.	1.1	1
125	Optimizing Li ₂ O-2B ₂ O ₃ coating layer on LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ (NCM811) cathode material for high-performance lithium-ion batteries. <i>International Journal of Green Energy</i> , 2020, 17, 447-455.	2.1	14
126	A Review of Composite/Hybrid Electrocatalysts and Photocatalysts for Nitrogen Reduction Reactions: Advanced Materials, Mechanisms, Challenges and Perspectives. <i>Electrochemical Energy Reviews</i> , 2020, 3, 506-540.	13.1	35

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127	Ir Cluster-Decorated Carbon Composite as Bifunctional Electrocatalysts for Acidic Stable Overall Water Splitting. <i>Journal of the Electrochemical Society</i> , 2020, 167, 104511.	1.3	18
128	Sodium-ion Batteries: Recent Progress in Advanced Organic Electrode Materials for Sodium-ion Batteries: Synthesis, Mechanisms, Challenges and Perspectives (Adv. Funct. Mater. 11/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070071.	7.8	12
129	Ionic Conductive Interface Boosting High Performance LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ for Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 3242-3252.	2.5	24
130	Construction nasicon-type NaTi ₂ (PO ₄) ₃ nanoshell on the surface of P2-type Na _{0.67} Co _{0.2} Mn _{0.8} O ₂ cathode for superior room/low-temperature sodium storage. <i>Chemical Engineering Journal</i> , 2020, 402, 126181.	6.6	40
131	Size-tunable SnS ₂ nanoparticles assembled on graphene as anodes for high performance lithium/sodium-ion batteries. <i>Electrochimica Acta</i> , 2020, 354, 136730.	2.6	36
132	Organic Cathode Materials for Rechargeable Zinc Batteries: Mechanisms, Challenges, and Perspectives. <i>ChemSusChem</i> , 2020, 13, 2160-2185.	3.6	121
133	Improved low-temperature performance of surface modified lithium-rich Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ cathode materials for lithium ion batteries. <i>Solid State Ionics</i> , 2020, 347, 115245.	1.3	15
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