

Liyun Cao

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,808
citations

279798

23
h-index

289244

40
g-index

63
all docs

63
docs citations

63
times ranked

2165
citing authors

#	ARTICLE	IF	CITATIONS
1	High stability SEI film on the surface of Sb ₂ O ₅ /carbon cloth by coating SiO ₂ as high performance LIBs and SIBs anodes. <i>Journal of Alloys and Compounds</i> , 2022, 891, 162031.	5.5	10
2	A three-dimensional coral-like Zn ₃ O-codoped Ni ₃ S ₂ electrocatalyst for efficient overall water splitting at a large current density. <i>Sustainable Energy and Fuels</i> , 2022, 6, 466-473.	4.9	0
3	Molybdenum and cobalt co-doped VC nanoparticles encapsulated in nanocarbon as efficient electrocatalysts for the hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 870-878.	6.0	13
4	Dual modulation of morphology and electronic structures of VN@C electrocatalyst by W doping for boosting hydrogen evolution reaction. <i>Chinese Chemical Letters</i> , 2022, 33, 4781-4785.	9.0	17
5	Dual carbon composited with Co ₉ S ₈ through C-S bond as a high performance Binder-Free anode for Sodium-Ion batteries. <i>Applied Surface Science</i> , 2022, 582, 152406.	6.1	9
6	<i>In situ</i> construction of superhydrophilic crystalline Ni ₃ S ₂ @amorphous VO _x heterostructure nanorod arrays for the hydrogen evolution reaction with industry-compatible current density. <i>Dalton Transactions</i> , 2022, 51, 7234-7240.	3.3	5
7	Ultrafine VN nanoparticles confined in Co@N-doped carbon nanotubes for boosted hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157257.	5.5	22
8	A thick titanium dioxide layer formed by Co-doping on a carbon surface promotes the polysulfide-adsorption ability in Li-S batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4153-4160.	4.9	1
9	Tuning the morphologic and electronic structures of self-assembled NiSe/Ni ₃ Se ₂ heterostructures with vanadium doping toward efficient electrocatalytic hydrogen production. <i>Applied Surface Science</i> , 2021, 542, 148598.	6.1	20
10	Realizing Fast Charge Diffusion in Oriented Iron Carbodiimide Structure for High-Rate Sodium-Ion Storage Performance. <i>ACS Nano</i> , 2021, 15, 6410-6419.	14.6	41
11	Vanadium-doped hierarchical Cu ₂ S nanowall arrays assembled by nanowires on copper foam as an efficient electrocatalyst for hydrogen evolution reaction. <i>Scripta Materialia</i> , 2021, 196, 113756.	5.2	16
12	Exposing WS ₂ nanosheets edge by supports carbon structure: Guiding Na ⁺ intercalation along (0 0 2) plane for enhanced reaction kinetics and stability. <i>Chemical Engineering Journal</i> , 2021, 411, 128554.	12.7	17
13	Rational Design of Vanadium-Modulated Ni ₃ Se ₂ Nanorod@Nanosheet Arrays as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12005-12016.	6.7	38
14	Guiding Fabrication of Continuous Carbon-Confined Sb ₂ Se ₃ Nanoparticle Structure for Durable Potassium-Storage Performance. <i>ACS Applied Energy Materials</i> , 2021, 4, 10391-10403.	5.1	10
15	Intrinsic defects promote rapid conversion of polysulfides on carbon surface to achieve high rate performance. <i>Carbon</i> , 2021, 183, 899-911.	10.3	10
16	Binding Molybdenum selenide with dual conductive carbon as Self-Supporting anode for an efficient sodium storage. <i>Applied Surface Science</i> , 2021, 570, 151122.	6.1	1
17	Vanadium-mediated ultrafine Co/Co ₉ S ₈ nanoparticles anchored on Co@N-doped porous carbon enable efficient hydrogen evolution and oxygen reduction reactions. <i>Nanoscale</i> , 2021, 13, 16277-16287.	5.6	11
18	Inducing [100]-orientated plate-like \pm -MoO ₃ to achieve regularly exfoliated layer structure enhancing Li storage performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3006-3018.	2.2	5

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19	Self-templated induced carbon-supported hollow WS ₂ composite structure for high-performance sodium storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21366-21378.	10.3	8
20	Controlled Synthesis of V-Doped Heterogeneous Ni ₃ S ₂ /NiS Nanorod Arrays as Efficient Hydrogen Evolution Electrocatalysts. <i>Langmuir</i> , 2021, 37, 357-365.	3.5	10
21	Heterostructured VN/Mo ₂ C Nanoparticles as Highly Efficient pH-Universal Electrocatalysts toward the Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15202-15211.	6.7	22
22	Fe ₂ P encapsulated in carbon nanowalls decorated with well-dispersed Fe ₃ C nanodots for efficient hydrogen evolution and oxygen reduction reactions. <i>Nanoscale</i> , 2021, 13, 17920-17928.	5.6	10
23	Methanol-assisted synthesis of Ni ³⁺ -doped ultrathin NiZn-LDH nanomeshes for boosted alkaline water splitting. <i>Dalton Transactions</i> , 2020, 49, 1325-1333.	3.3	27
24	Carbon capsule confined Sb ₂ Se ₃ for fast Na ⁺ extraction in sodium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 797-808.	4.9	12
25	Cu/Cu ₂ O@Ppy nanowires as a long-life and high-capacity anode for lithium ion battery. <i>Chemical Engineering Journal</i> , 2020, 391, 123597.	12.7	50
26	Controllable Conversion from Single-Crystal Nanorods to Polycrystalline Nanosheets of NiCoV-LTH for Oxygen Evolution Reaction at Large Current Density. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16091-16096.	6.7	25
27	Mo-Doped ultrafine VC nanoparticles confined in few-layer graphitic nanocarbon for improved electrocatalytic hydrogen evolution. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4142-4149.	6.0	10
28	Controlled WS ₂ crystallinity effectively dominating sodium storage performance. <i>Journal of Energy Chemistry</i> , 2020, 51, 143-153.	12.9	17
29	Layered-structure (NH ₄) ₂ Mo ₄ O ₁₃ @N-doped porous carbon composite as a superior anode for lithium-ion batteries. <i>Chemical Communications</i> , 2020, 56, 7757-7760.	4.1	7
30	In Situ Construction of "Anchor-Like" Structures in FeNCN for Long Cyclic Life in Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2000208.	14.9	19
31	In-situ optimizing the valence configuration of vanadium sites in NiV-LDH nanosheet arrays for enhanced hydrogen evolution reaction. <i>Journal of Energy Chemistry</i> , 2020, 47, 263-271.	12.9	66
32	Co-N-doped single-crystal V ₃ S ₄ nanoparticles as pH-universal electrocatalysts for enhanced hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2020, 335, 135696.	5.2	11
33	Polyethylene glycol (PEG)-assisted synthesis of self-assembled cactus-like NH ₄ V ₃ O ₈ for lithium ion battery cathode. <i>Scripta Materialia</i> , 2020, 183, 75-80.	5.2	4
34	V-Doping Triggered Formation and Structural Evolution of Dendritic Ni ₃ S ₂ @NiO Core-Shell Nanoarrays for Accelerating Alkaline Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6222-6233.	6.7	66
35	Nanoporous NiAl-LDH nanosheet arrays with optimized Ni active sites for efficient electrocatalytic alkaline water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2850-2858.	4.9	56
36	Rice crust-like Fe ₃ O ₄ @C/rGO with improved extrinsic pseudocapacitance for high-rate and long-life Li-ion anodes. <i>Journal of Alloys and Compounds</i> , 2019, 804, 57-64.	5.5	27

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37	Formation of hierarchical Ni ₃ S ₂ nanohorn arrays driven by in-situ generation of VS ₄ nanocrystals for boosting alkaline water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117911.	20.2	92
38	Design of an ultra-stable Sb ₂ Se ₃ anode with excellent Na storage performance. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151930.	5.5	8
39	Controlling the thickness of amorphous layer on Cu ₃ (PO ₄) ₂ particle for promoted sodium storage reversibility as a conversion-reaction-based cathode. <i>Journal of Electroanalytical Chemistry</i> , 2019, 852, 113406.	3.8	4
40	Synthesis, characterization and photocatalytic properties of nanoscale pyrochlore type Bi ₂ Zr ₂ O ₇ . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 240, 133-139.	3.5	12
41	N-doped TiO ₂ /rGO hybrids as superior Li-ion battery anodes with enhanced Li-ions storage capacity. <i>Journal of Alloys and Compounds</i> , 2019, 784, 165-172.	5.5	27
42	Co,N-Codoped porous vanadium nitride nanoplates as superior bifunctional electrocatalysts for hydrogen evolution and oxygen reduction reactions. <i>Nanoscale</i> , 2019, 11, 11542-11549.	5.6	53
43	SnSe/r-GO Composite with Enhanced Pseudocapacitance as a High-Performance Anode for Li-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8637-8646.	6.7	55
44	Tuning the coupling interface of ultrathin Ni ₃ S ₂ @NiV-LDH heterogeneous nanosheet electrocatalysts for improved overall water splitting. <i>Nanoscale</i> , 2019, 11, 8855-8863.	5.6	133
45	Improved Li-Storage Properties of Cu ₂ V ₂ O ₇ Microflower by Constructing an in Situ CuO Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6267-6274.	6.7	20
46	Sulfur-regulated the binding configurations of nitrogen in three-dimensional graphene to improve lithium storage kinetics. <i>Journal of Alloys and Compounds</i> , 2019, 786, 1013-1020.	5.5	16
47	A N/S-codoped disordered carbon with enlarged interlayer distance derived from cirsium setosum as high-performance anode for sodium ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 21323-21331.	2.2	2
48	Design of Cu ₂ O coated Cu ₃ V ₂ O ₇ (OH) ₂ ·2H ₂ O microflower with in-situ crystallization process and enhanced Li-storage properties. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 186-191.	3.8	9
49	A new approach to preparing Bi ₂ Zr ₂ O ₇ photocatalysts for dye degradation. <i>Materials Research Express</i> , 2018, 5, 015039.	1.6	8
50	Design of dual-carbon modified MnO electrode improves adsorption and conversion reaction in Li-ion batteries. <i>Ceramics International</i> , 2018, 44, 3248-3254.	4.8	14
51	3D self-assembled VS ₄ microspheres with high pseudocapacitance as highly efficient anodes for Na-ion batteries. <i>Nanoscale</i> , 2018, 10, 21671-21680.	5.6	47
52	Well-dispersed ultrasmall VC nanoparticles embedded in N-doped carbon nanotubes as highly efficient electrocatalysts for hydrogen evolution reaction. <i>Nanoscale</i> , 2018, 10, 14272-14279.	5.6	58
53	In situ synthesis of mesoporous C-doped TiO ₂ single crystal with oxygen vacancy and its enhanced sunlight photocatalytic properties. <i>Dyes and Pigments</i> , 2017, 144, 203-211.	3.7	55
54	Adjusting the Chemical Bonding of SnO ₂ @CNT Composite for Enhanced Conversion Reaction Kinetics. <i>Small</i> , 2017, 13, 1700656.	10.0	111

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55	Enhanced cyclic performance of Cu ₂ V ₂ O ₇ / reduced Graphene Oxide mesoporous microspheres assembled by nanoparticles as anode for Li-ion battery. Journal of Alloys and Compounds, 2017, 724, 421-426.	5.5	25
56	Controlling the Sn–C bonds content in SnO ₂ @CNTs composite to form <i>in situ</i> pulverized structure for enhanced electrochemical kinetics. Nanoscale, 2017, 9, 18681-18689.	5.6	56
57	Rape seed shuck derived-lamellar hard carbon as anodes for sodium-ion batteries. Journal of Alloys and Compounds, 2017, 695, 632-637.	5.5	71
58	Facile synthesis of reduced graphene oxide/NH ₄ ⁺ V ₃ O ₈ with high capacity as a cathode material for lithium ion batteries. Micro and Nano Letters, 2017, 12, 940-943.	1.3	5
59	Controlling the layered structure of WS ₂ nanosheets to promote Na ⁺ insertion with enhanced Na-ion storage performance. Electrochimica Acta, 2016, 222, 1724-1732.	5.2	28
60	High Pseudocapacitance in FeOOH/rGO Composites with Superior Performance for High Rate Anode in Li-ion Battery. ACS Applied Materials & Interfaces, 2016, 8, 35253-35263.	8.0	119
61	Structure-controlled synthesis and electrochemical properties of NH ₄ V ₃ O ₈ as cathode material for Lithium ion batteries. Electrochimica Acta, 2016, 212, 217-224.	5.2	20
62	Improved Na Storage Performance with the Involvement of Nitrogen-Doped Conductive Carbon into WS ₂ Nanosheets. ACS Applied Materials & Interfaces, 2016, 8, 23899-23908.	8.0	65
63	Equal contents of intrinsic defects and oxygen-containing defects promote carbon electrodes to achieve high sulfur loads. Journal of Nanostructure in Chemistry, 0, , 1.	9.1	2