

Hongyang Zhao

List of Publications by Year in descending order

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75
papers

3,915
citations

101543

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all docs

75
docs citations

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times ranked

5936
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorization boosts the capacitance of mixed metal nanosheet arrays for high performance supercapacitor electrodes. <i>Nanoscale</i> , 2018, 10, 11775-11781.	5.6	274
2	A general salt-resistant hydrophilic/hydrophobic nanoporous double layer design for efficient and stable solar water evaporation distillation. <i>Materials Horizons</i> , 2018, 5, 1143-1150.	12.2	232
3	MOF-derived porous Ni ₂ P nanosheets as novel bifunctional electrocatalysts for the hydrogen and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18720-18727.	10.3	149
4	Hydrothermal synthesis of nitrogen-doped graphene hydrogels using amino acids with different acidities as doping agents. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8352-8361.	10.3	141
5	Regulating the active species of Ni(OH) ₂ using CeO ₂ : 3D CeO ₂ /Ni(OH) ₂ /carbon foam as an efficient electrode for the oxygen evolution reaction. <i>Chemical Science</i> , 2017, 8, 3211-3217.	7.4	141
6	Electrochromic Poly(chalcogenoviologen)s as Anode Materials for High-Performance Organic Radical Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8468-8473.	13.8	134
7	Rare earth incorporated electrode materials for advanced energy storage. <i>Coordination Chemistry Reviews</i> , 2019, 390, 32-49.	18.8	126
8	Colloidal synthesis of 1T' phase dominated WS ₂ towards enduring electrocatalysis. <i>Nano Energy</i> , 2018, 50, 176-181.	16.0	123
9	Coal based activated carbon nanofibers prepared by electrospinning. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9338-9344.	10.3	122
10	Efficient Optimization of Electron/Oxygen Pathway by Constructing Ceria/Hydroxide Interface for Highly Active Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2020, 30, 1908367.	14.9	120
11	Mo-doped Ni ₂ P hollow nanostructures: highly efficient and durable bifunctional electrocatalysts for alkaline water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7636-7643.	10.3	110
12	Crystalline-Amorphous Permalloy@Iron Oxide Core-Shell Nanoparticles Decorated on Graphene as High-Efficiency, Lightweight, and Hydrophobic Microwave Absorbents. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6374-6383.	8.0	96
13	Colloidally synthesized MoSe ₂ /graphene hybrid nanostructures as efficient electrocatalysts for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19706-19710.	10.3	92
14	MoSe ₂ nanosheets grown on carbon cloth with superior electrochemical performance as flexible electrode for sodium ion batteries. <i>RSC Advances</i> , 2016, 6, 1440-1444.	3.6	92
15	Organic Thiocarboxylate Electrodes for a Room-Temperature Sodium-Ion Battery Delivering an Ultrahigh Capacity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15334-15338.	13.8	91
16	Methacrylate-ended polypeptides and polypeptoids for antimicrobial and antifouling coatings. <i>Polymer Chemistry</i> , 2017, 8, 6386-6397.	3.9	89
17	Symmetric full cells assembled by using self-supporting Na ₃ V ₂ (PO ₄) ₃ bipolar electrodes for superior sodium energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7155-7159.	10.3	81
18	Coal-Based Hierarchical Porous Carbon Synthesized with a Soluble Salt Self-Assembly-Assisted Method for High Performance Supercapacitors and Li-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3255-3263.	6.7	80

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19	Coal derived porous carbon fibers with tunable internal channels for flexible electrodes and organic matter absorption. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21178-21184.	10.3	70
20	Superior-Performance Aqueous Zinc Ion Battery Based on Structural Transformation of MnO_2 by Rare Earth Doping. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22735-22741.	3.1	70
21	Dense Crystalline-Amorphous Interfacial Sites for Enhanced Electrocatalytic Oxygen Evolution. <i>Advanced Functional Materials</i> , 2022, 32, 2107056.	14.9	69
22	Synthesis of High-Quality \pm -MnSe Nanostructures with Superior Lithium Storage Properties. <i>Inorganic Chemistry</i> , 2016, 55, 2765-2770.	4.0	66
23	Lanthanide doping induced electrochemical enhancement of $\text{Na}_2\text{Ti}_3\text{O}_7$ anodes for sodium-ion batteries. <i>Chemical Science</i> , 2018, 9, 3421-3425.	7.4	66
24	Room temperature stable CO_2 -free H_2 production from methanol with magnesium oxide nanophotocatalysts. <i>Science Advances</i> , 2016, 2, e1501425.	10.3	62
25	Assembled 3D electrocatalysts for efficient hydrogen evolution: WSe_2 layers anchored on graphene sheets. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 313-319.	6.0	61
26	Interplanar space-controllable carboxylate pillared metal organic framework ultrathin nanosheet for superhigh capacity rechargeable alkaline battery. <i>Nano Energy</i> , 2019, 62, 876-882.	16.0	60
27	A Sustainable Multipurpose Separator Directed Against the Shuttle Effect of Polysulfides for High-Performance Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	53
28	Thermally Stable Hierarchical Nanostructures of Ultrathin MoS_2 Nanosheet-Coated CeO_2 Hollow Spheres as Catalyst for Ammonia Decomposition. <i>Inorganic Chemistry</i> , 2016, 55, 3992-3999.	4.0	52
29	Tuning the Color Emission of $\text{Sr}_2\text{P}_2\text{O}_7$: Tb^{3+} , Eu^{3+} Phosphors Based on Energy Transfer. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1536-1541.	3.8	51
30	Core-shell structured CeO_2 @ MoS_2 nanocomposites for high performance symmetric supercapacitors. <i>CrystEngComm</i> , 2016, 18, 4158-4164.	2.6	51
31	Electrolytes for Batteries with Earth-Abundant Metal Anodes. <i>Chemistry - A European Journal</i> , 2018, 24, 18220-18234.	3.3	50
32	Interface engineering boosts electrochemical performance by fabricating CeO_2 @ CoP Schottky junction for hybrid supercapacitors. <i>Electrochimica Acta</i> , 2020, 337, 135817.	5.2	50
33	Luminescence, energy transfer and tunable color of Ce^{3+} , Dy^{3+} , Tb^{3+} doped $\text{BaZn}_2(\text{PO}_4)_2$ phosphors. <i>New Journal of Chemistry</i> , 2016, 40, 3086-3093.	2.8	44
34	Tumor-Microenvironment-Induced Degradation of Ultrathin Gadolinium Oxide Nanoscrolls for Magnetic-Resonance-Imaging-Monitored, Activatable Cancer Chemotherapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6880-6885.	13.8	44
35	Porous $\text{CNT@Li}_4\text{Ti}_5\text{O}_{12}$ coaxial nanocables as ultra high power and long life anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2089-2095.	10.3	41
36	High-quality $\text{Cu}_2\text{ZnSnS}_4$ and $\text{Cu}_2\text{ZnSnSe}_4$ nanocrystals hybrid with ZnO and NaYF_4 : Yb, Tm as efficient photocatalytic sensitizers. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 402-411.	20.2	41

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37	High rate performance porous carbon prepared from coal for supercapacitors. <i>Materials Letters</i> , 2015, 149, 85-88.	2.6	35
38	Current-Density Regulating Lithium Metal Directional Deposition for Long Cycle-Life Li Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19306-19313.	13.8	35
39	Constructing monodispersed MoSe ₂ anchored on graphene: a superior nanomaterial for sodium storage. <i>Science China Materials</i> , 2017, 60, 167-177.	6.3	33
40	Highly Crystallized Co ₂ Mo ₃ O ₈ Hexagonal Nanoplates Interconnected by Coal-Derived Carbon via the Molten-Salt-Assisted Method for Competitive Li-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7006-7013.	8.0	32
41	Multimodal channel cancer chemotherapy by 2D functional gadolinium metal-organic framework. <i>National Science Review</i> , 2021, 8, nwaa221.	9.5	31
42	Construction of high quality ultrathin lanthanide oxyiodide nanosheets for enhanced CT imaging and anticancer drug delivery to efficient cancer theranostics. <i>Biomaterials</i> , 2020, 230, 119670.	11.4	30
43	Facile phase transition engineering of MoS ₂ for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8394-8400.	10.3	28
44	Rational design of hybrid porous nanotubes with robust structure of ultrafine Li ₄ Ti ₅ O ₁₂ nanoparticles embedded in bamboo-like CNTs for superior lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3342-3349.	10.3	27
45	Hybrid porous bamboo-like CNTs embedding ultrasmall LiCrTiO ₄ nanoparticles as high rate and long life anode materials for lithium ion batteries. <i>Chemical Communications</i> , 2017, 53, 1033-1036.	4.1	25
46	Three-Electron Redox Enabled Dithiocarboxylate Electrode for Superior Lithium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35469-35476.	8.0	24
47	Photoluminescence properties and energy transfer of color tunable MgZn ₂ (PO ₄) ₂ :Ce ³⁺ , Tb ³⁺ phosphors. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28802-28808.	2.8	23
48	Pseudocapacitive Behaviors of Li ₂ FeTiO ₄ /C Hybrid Porous Nanotubes for Novel Lithium-Ion Battery Anodes with Superior Performances. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20225-20230.	8.0	23
49	Electrochromic Poly(chalcogenoviologen)s as Anode Materials for High-Performance Organic Radical Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 8556-8561.	2.0	22
50	All in one theranostic nanoplatform enables efficient anti-tumor peptide delivery for triple-modal imaging guided cancer therapy. <i>Nano Research</i> , 2019, 12, 593-599.	10.4	22
51	Rational Design of Nanostructured Metal/C Interface in 3D Self-Supporting Cellulose Carbon Aerogel Facilitating High-Performance LiCO ₂ Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	22
52	Rare-earth-incorporated low-dimensional chalcogenides: Dry-method syntheses and applications. <i>Informa Materials</i> , 2020, 2, 466-482.	17.3	20
53	Anatase/rutile titania anchored carbon nanotube porous nanocomposites as superior anodes for lithium ion batteries. <i>CrystEngComm</i> , 2016, 18, 4489-4494.	2.6	17
54	Well-defined Co _x CeO _{2+x} MoS ₂ nanotube hybrids as novel electrocatalysts for promising hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9523-9527.	10.3	15

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55	Synthesis of porous gadolinium oxide nanosheets for cancer therapy and magnetic resonance imaging. <i>Materials Letters</i> , 2020, 265, 127375.	2.6	15
56	Confined formation of monoclinic Na ₄ Ti ₅ O ₁₂ nanoparticles embedded into porous CNTs: towards enhanced electrochemical performances for sodium ion batteries. <i>New Journal of Chemistry</i> , 2018, 42, 19340-19343.	2.8	14
57	Carbon Thin Film Wrapped around a Three-Dimensional Nitrogen-Doped Carbon Scaffold for Superior Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2017, 23, 9641-9646.	3.3	13
58	Cerium-doped bimetal organic framework as a superhigh capacity cathode for rechargeable alkaline batteries. <i>Nanoscale</i> , 2021, 13, 3581-3587.	5.6	13
59	Structure, composition and electrochemical performance analysis of fluorophosphates from different synthetic methods: is really Na ₃ V ₂ (PO ₄) ₂ F ₃ synthesized?. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8877-8886.	10.3	13
60	Eu ²⁺ /CdS and Eu ²⁺ /ZnS heterostructured nanocrystals constructed by Co-thermal decomposition of molecular precursors in the solution phase. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3902-3907.	5.5	11
61	Enhancing the Rate Capability of Niobium Oxide Electrode through Rare-Earth Doping Engineering. <i>Batteries and Supercaps</i> , 2019, 2, 924-928.	4.7	11
62	Ship in bottle synthesis of yolk-shell MnS@hollow carbon spheres for sodium storage. <i>Nanotechnology</i> , 2021, 32, 505602.	2.6	11
63	Thiocarboxylate-modified Ni(OH) ₂ nanosheets for high-performance alkaline batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20176-20181.	10.3	10
64	Tumor-Microenvironment-Induced Degradation of Ultrathin Gadolinium Oxide Nanoscrolls for Magnetic-Resonance-Imaging-Monitored, Activatable Cancer Chemotherapy. <i>Angewandte Chemie</i> , 2019, 131, 6954-6959.	2.0	10
65	High Quality Ultrathin Lanthanide Selenide Nanostructures with Dual Modal Functionalities. <i>Chemistry of Materials</i> , 2016, 28, 2507-2510.	6.7	9
66	MoO ₂ /C hybrid synthesized by a facile molten-salt-assisted approach for high-performance lithium-ion batteries. <i>International Journal of Energy Research</i> , 2021, 45, 6418-6425.	4.5	9
67	Improved rate capability and cycling stability of bicontinuous hierarchical mesoporous LiFePO ₄ /C microbelts for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 12969-12975.	2.8	7
68	Agent-Based Energy Sharing Mechanism Using Deep Deterministic Policy Gradient Algorithm. <i>Energies</i> , 2020, 13, 5027.	3.1	3
69	Current-Density Regulating Lithium Metal Directional Deposition for Long Cycle-Life Li Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 19455-19462.	2.0	2
70	Partial Hydrolysis of Cyanide Coordination Polymers Induced by a Pillar Ligand with Optimized Electrochemical Kinetics for Rechargeable Alkaline Batteries. <i>Chemistry - A European Journal</i> , 2021, 27, 17818-17823.	3.3	2
71	Biodegradable biocompatible MgO/Eu nanodrug with Acid-Base conversion capacity for targeted lung cancer therapy. <i>Chemical Engineering Journal</i> , 2022, 446, 136323.	12.7	2
72	Phase imaging using single-pixel detection in the spatial spectrum plane. <i>Optical Engineering</i> , 2018, 57, 1.	1.0	1

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73	Bottom-up Synthesis of Highly Active Catalyst by Coal-derived Carbon Quantum Dots for Oxygen Evolution Reaction. <i>Materials Letters</i> , 2022, , 132470.	2.6	1
74	Dither removing Fourier ptychographic microscope based on a two-axis rotation stage. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	0
75	Ligand Stabilization Strategy Boosted Electrode Kinetics in Cyanide Metal Organic Framework for Electrocatalytic Oxygen Evolution Reaction. <i>ChemNanoMat</i> , 0, , .	2.8	0