

Hongyang Zhao

List of Publications by Year in descending order

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75
papers

3,915
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101384

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docs citations

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times ranked

5936
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Dense Crystalline–Amorphous Interfacial Sites for Enhanced Electrocatalytic Oxygen Evolution. <i>Advanced Functional Materials</i> , 2022, 32, 2107056. | 7.8 | 69 |
| 2 | Structure, composition and electrochemical performance analysis of fluorophosphates from different synthetic methods: is really $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$ synthesized?. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8877-8886. | 5.2 | 13 |
| 3 | A Sustainable Multipurpose Separator Directed Against the Shuttle Effect of Polysulfides for High-Performance Lithium–Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, . | 10.2 | 53 |
| 4 | Biodegradable biocompatible MgO/Eu nanodrug with Acid-Base conversion capacity for targeted lung cancer therapy. <i>Chemical Engineering Journal</i> , 2022, 446, 136323. | 6.6 | 2 |
| 5 | 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, . | 10.2 | 22 |
| 6 | Bottom-up Synthesis of Highly Active Catalyst by Coal-derived Carbon Quantum Dots for Oxygen Evolution Reaction. <i>Materials Letters</i> , 2022, , 132470. | 1.3 | 1 |
| 7 | 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. | 2.2 | 9 |
| 8 | Multimodal channel cancer chemotherapy by 2D functional gadolinium metal–organic framework. <i>National Science Review</i> , 2021, 8, nwaa221. | 4.6 | 31 |
| 9 | Facile phase transition engineering of MoS_2 for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8394-8400. | 5.2 | 28 |
| 10 | Cerium-doped bimetal organic framework as a superhigh capacity cathode for rechargeable alkaline batteries. <i>Nanoscale</i> , 2021, 13, 3581-3587. | 2.8 | 13 |
| 11 | Dither removing Fourier ptychographic microscope based on a two-axis rotation stage. <i>Journal of Biomedical Optics</i> , 2021, 26, . | 1.4 | 0 |
| 12 | Current-Density Regulating Lithium Metal Directional Deposition for Long Cycle-Life Li Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19306-19313. | 7.2 | 35 |
| 13 | Current-Density Regulating Lithium Metal Directional Deposition for Long Cycle-Life Li Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 19455-19462. | 1.6 | 2 |
| 14 | 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. | 1.7 | 2 |
| 15 | Ship in bottle synthesis of yolk-shell $\text{MnS}@$ hollow carbon spheres for sodium storage. <i>Nanotechnology</i> , 2021, 32, 505602. | 1.3 | 11 |
| 16 | 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. | 7.8 | 120 |
| 17 | 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. | 5.7 | 30 |
| 18 | Agent-Based Energy Sharing Mechanism Using Deep Deterministic Policy Gradient Algorithm. <i>Energies</i> , 2020, 13, 5027. | 1.6 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Rare-earth-incorporated low-dimensional chalcogenides: Dry-method syntheses and applications. <i>Informa Mater</i> , 2020, 2, 466-482. | 8.5 | 20 |
| 20 | Synthesis of porous gadolinium oxide nanosheets for cancer therapy and magnetic resonance imaging. <i>Materials Letters</i> , 2020, 265, 127375. | 1.3 | 15 |
| 21 | Interface engineering boosts electrochemical performance by fabricating CeO ₂ @CoP Schottky junction for hybrid supercapacitors. <i>Electrochimica Acta</i> , 2020, 337, 135817. | 2.6 | 50 |
| 22 | Enhancing the Rate Capability of Niobium Oxide Electrode through Rare-Earth Doping Engineering. <i>Batteries and Supercaps</i> , 2019, 2, 924-928. | 2.4 | 11 |
| 23 | Thiocarboxylate-modified Ni(OH) ₂ nanosheets for high-performance alkaline batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20176-20181. | 5.2 | 10 |
| 24 | 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. | 1.5 | 70 |
| 25 | 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. | 4.0 | 32 |
| 26 | 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. | 4.0 | 96 |
| 27 | 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. | 7.2 | 44 |
| 28 | 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. | 1.6 | 10 |
| 29 | Interplanar space-controllable carboxylate pillared metal organic framework ultrathin nanosheet for superhigh capacity rechargeable alkaline battery. <i>Nano Energy</i> , 2019, 62, 876-882. | 8.2 | 60 |
| 30 | Rare earth incorporated electrode materials for advanced energy storage. <i>Coordination Chemistry Reviews</i> , 2019, 390, 32-49. | 9.5 | 126 |
| 31 | Electrochromic Poly(chalcogenoviologen)s as Anode Materials for High-Performance Organic Radical Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 8556-8561. | 1.6 | 22 |
| 32 | 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. | 7.2 | 134 |
| 33 | 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. | 5.2 | 110 |
| 34 | 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. | 5.8 | 22 |
| 35 | Lanthanide doping induced electrochemical enhancement of Na ₂ Ti ₃ O ₇ anodes for sodium-ion batteries. <i>Chemical Science</i> , 2018, 9, 3421-3425. | 3.7 | 66 |
| 36 | Phosphorization boosts the capacitance of mixed metal nanosheet arrays for high performance supercapacitor electrodes. <i>Nanoscale</i> , 2018, 10, 11775-11781. | 2.8 | 274 |

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|----|--|-----|-----------|
| 37 | 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. | 3.2 | 80 |
| 38 | 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. | 5.2 | 27 |
| 39 | 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. | 1.4 | 14 |
| 40 | Three-Electron Redox Enabled Dithiocarboxylate Electrode for Superior Lithium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35469-35476. | 4.0 | 24 |
| 41 | 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. | 5.2 | 149 |
| 42 | 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. | 6.4 | 232 |
| 43 | Electrolytes for Batteries with Earth-Abundant Metal Anodes. <i>Chemistry - A European Journal</i> , 2018, 24, 18220-18234. | 1.7 | 50 |
| 44 | Colloidal synthesis of 1T' phase dominated WS ₂ towards enduring electrocatalysis. <i>Nano Energy</i> , 2018, 50, 176-181. | 8.2 | 123 |
| 45 | 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. | 4.0 | 23 |
| 46 | Phase imaging using single-pixel detection in the spatial spectrum plane. <i>Optical Engineering</i> , 2018, 57, 1. | 0.5 | 1 |
| 47 | 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. | 3.7 | 141 |
| 48 | 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. | 5.2 | 15 |
| 49 | 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. | 1.7 | 13 |
| 50 | Constructing monodispersed MoSe ₂ anchored on graphene: a superior nanomaterial for sodium storage. <i>Science China Materials</i> , 2017, 60, 167-177. | 3.5 | 33 |
| 51 | 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. | 2.2 | 25 |
| 52 | Organic Thiocarboxylate Electrodes for a Room-Temperature Sodium-Ion Battery Delivering an Ultrahigh Capacity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15334-15338. | 7.2 | 91 |
| 53 | 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. | 1.4 | 7 |
| 54 | Methacrylate-ended polypeptides and polypeptoids for antimicrobial and antifouling coatings. <i>Polymer Chemistry</i> , 2017, 8, 6386-6397. | 1.9 | 89 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | High-quality Cu ₂ ZnSnS ₄ and Cu ₂ ZnSnSe ₄ nanocrystals hybrid with ZnO and NaYF ₄ : Yb, Tm as efficient photocatalytic sensitizers. Applied Catalysis B: Environmental, 2017, 200, 402-411. | 10.8 | 41 |
| 56 | High Quality Ultrathin Lanthanide Selenide Nanostructures with Dual Modal Functionalities. Chemistry of Materials, 2016, 28, 2507-2510. | 3.2 | 9 |
| 57 | Thermally Stable Hierarchical Nanostructures of Ultrathin MoS ₂ Nanosheet-Coated CeO ₂ Hollow Spheres as Catalyst for Ammonia Decomposition. Inorganic Chemistry, 2016, 55, 3992-3999. | 1.9 | 52 |
| 58 | Symmetric full cells assembled by using self-supporting Na ₃ V ₂ (PO ₄) ₃ bipolar electrodes for superior sodium energy storage. Journal of Materials Chemistry A, 2016, 4, 7155-7159. | 5.2 | 81 |
| 59 | Anatase/rutile titania anchored carbon nanotube porous nanocomposites as superior anodes for lithium ion batteries. CrystEngComm, 2016, 18, 4489-4494. | 1.3 | 17 |
| 60 | Room temperature stable CO ₂ -free H ₂ production from methanol with magnesium oxide nanophotocatalysts. Science Advances, 2016, 2, e1501425. | 4.7 | 62 |
| 61 | Luminescence, energy transfer and tunable color of Ce ³⁺ , Dy ³⁺ /Tb ³⁺ doped BaZn ₂ (PO ₄) ₂ phosphors. New Journal of Chemistry, 2016, 40, 3086-3093. | 1.4 | 44 |
| 62 | Core-shell structured CeO ₂ @MoS ₂ nanocomposites for high performance symmetric supercapacitors. CrystEngComm, 2016, 18, 4158-4164. | 1.3 | 51 |
| 63 | Synthesis of High-Quality MnSe Nanostructures with Superior Lithium Storage Properties. Inorganic Chemistry, 2016, 55, 2765-2770. | 1.9 | 66 |
| 64 | Assembled 3D electrocatalysts for efficient hydrogen evolution: WSe ₂ layers anchored on graphene sheets. Inorganic Chemistry Frontiers, 2016, 3, 313-319. | 3.0 | 61 |
| 65 | Porous CNT@Li ₄ Ti ₅ O ₁₂ coaxial nanocables as ultra high power and long life anode materials for lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 2089-2095. | 5.2 | 41 |
| 66 | MoSe ₂ nanosheets grown on carbon cloth with superior electrochemical performance as flexible electrode for sodium ion batteries. RSC Advances, 2016, 6, 1440-1444. | 1.7 | 92 |
| 67 | Eu-CdS and Eu-ZnS heterostructured nanocrystals constructed by Co-thermal decomposition of molecular precursors in the solution phase. Journal of Materials Chemistry C, 2015, 3, 3902-3907. | 2.7 | 11 |
| 68 | Tuning the Color Emission of Sr ₂ P ₂ O ₇ : Tb ³⁺ , Eu ³⁺ Phosphors Based on Energy Transfer. Journal of the American Ceramic Society, 2015, 98, 1536-1541. | 1.9 | 51 |
| 69 | Photoluminescence properties and energy transfer of color tunable MgZn ₂ (PO ₄) ₂ :Ce ³⁺ , Tb ³⁺ phosphors. Physical Chemistry Chemical Physics, 2015, 17, 28802-28808. | 1.3 | 23 |
| 70 | Coal derived porous carbon fibers with tunable internal channels for flexible electrodes and organic matter absorption. Journal of Materials Chemistry A, 2015, 3, 21178-21184. | 5.2 | 70 |
| 71 | Colloidally synthesized MoSe ₂ /graphene hybrid nanostructures as efficient electrocatalysts for hydrogen evolution. Journal of Materials Chemistry A, 2015, 3, 19706-19710. | 5.2 | 92 |
| 72 | High rate performance porous carbon prepared from coal for supercapacitors. Materials Letters, 2015, 149, 85-88. | 1.3 | 35 |

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|----|--|-----|-----------|
| 73 | Coal based activated carbon nanofibers prepared by electrospinning. Journal of Materials Chemistry A, 2014, 2, 9338-9344. | 5.2 | 122 |
| 74 | Hydrothermal synthesis of nitrogen-doped graphene hydrogels using amino acids with different acidities as doping agents. Journal of Materials Chemistry A, 2014, 2, 8352-8361. | 5.2 | 141 |
| 75 | Ligand Stabilization Strategy Boosted Electrode Kinetics in Cyanide Metal Organic Framework for Electrocatalytic Oxygen Evolution Reaction. ChemNanoMat, 0, , . | 1.5 | 0 |