# Zhifeng Wang

List of Publications by Year
in descending order



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|---|---|---|---|
| 86 papers | 2,082 citations | 201385 27 h-index | 276539 41 g-index |
| 86 all docs | 86 docs citations | 86 times ranked | 2239 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Bimodal nanoporous Pd3Cu1 alloy with restrained hydrogen evolution for stable and high yield electrochemical nitrogen reduction. Nano Energy, 2019, 58, 834-841. | 8.2 | 145 |
| 2 | High specific surface area bimodal porous carbon derived from biomass reed flowers for high performance lithium-sulfur batteries. Journal of Colloid and Interface Science, 2020, 569, 22-33. | 5.0 | 103 |
| 3 | Tailoring nanoporous structures of Ge anodes for stable potassium-ion batteries. Electrochemistry Communications, 2019, 101, 68-72. | 2.3 | 67 |
| 4 | Nanoporous Cu@Cu<sub>2</sub>O hybrid arrays enable photo-assisted supercapacitor with enhanced capacities. Journal of Materials Chemistry A, 2019, 7, 15691-15697. | 5.2 | 66 |
| 5 | Flexible NiO micro-rods/nanoporous Ni/metallic glass electrode with sandwich structure for high performance supercapacitors. Electrochimica Acta, 2019, 297, 767-777. | 2.6 | 64 |
| 6 | CoFe2O4 nanoplates synthesized by dealloying method as high performance Li-ion battery anodes. Electrochimica Acta, 2017, 252, 295-305. | 2.6 | 63 |
| 7 | Stable nanoporous Sn/SnO2 composites for efficient electroreduction of CO2 to formate over wide potential range. Applied Materials Today, 2018, 13, 135-143. | 2.3 | 58 |
| 8 | Tailoring the microstructure and improving the discharge properties of dilute Mg-Sn-Mn-Ca alloy as anode for Mg-air battery through homogenization prior to extrusion. Journal of Materials Science and Technology, 2021, 60, 77-89. | 5.6 | 57 |
| 9 | Yucca fern shaped CuO nanowires on Cu foam for remitting capacity fading of Li-ion battery anodes. Scientific Reports, 2018, 8, 6530. | 1.6 | 56 |
| 10 | Flexible Co(OH)2/NiOxHy@Ni hybrid electrodes for high energy density supercapacitors. Chemical Engineering Journal, 2021, 415, 128871. | 6.6 | 55 |
| 11 | Dual-network nanoporous NiFe2O4/NiO composites for high performance Li-ion battery anodes. Chemical Engineering Journal, 2020, 388, 124207. | 6.6 | 54 |
| 12 | Facile fabrication of CuS microflower as a highly durable sodium-ion battery anode. Inorganic Chemistry Frontiers, 2018, 5, 1045-1052. | 3.0 | 52 |
| 13 | Discharge properties of low-alloyed Mgâ€“Biâ€“Ca alloys as anode materials for Mgâ€“air batteries: Influence of Ca alloying. Journal of Alloys and Compounds, 2020, 823, 153779. | 2.8 | 52 |
| 14 | Fabrication and new electrochemical properties of nanoporous Cu by dealloying amorphous Cuâ€“Hfâ€“Al alloys. Intermetallics, 2015, 56, 48-55. | 1.8 | 48 |
| 15 | Flexible integrated metallic glass-based sandwich electrodes for high-performance wearable all-solid-state supercapacitors. Applied Materials Today, 2020, 19, 100539. | 2.3 | 45 |
| 16 | Discharge Behavior of Mgâ€“Snâ€“Znâ€“Ag Alloys with Different Sn Contents as Anodes for Mg-air Batteries. Journal of the Electrochemical Society, 2020, 167, 020501. | 1.3 | 42 |
| 17 | Bimodal nanoporous NiO@Niâ€“Si network prepared by dealloying method for stable Li-ion storage. Journal of Power Sources, 2020, 449, 227550. | 4.0 | 42 |
| 18 | AZ61 and AZ61-La Alloys as Anodes for Mg-Air Battery. Journal of Materials Engineering and Performance, 2019, 28, 2006-2016. | 1.2 | 39 |

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|---|---|---|---|
| 19 | The analysis of residual stress in glass-to-metal seals for solar receiver tube. Materials & Design, 2010, 31, 1813-1820. | 5.1 | 37 |
| 20 | Crystalline Cu-silicide stabilizes the performance of a high capacity Si-based Li-ion battery anode. Journal of Materials Chemistry A, 2016, 4, 19140-19146. | 5.2 | 37 |
| 21 | Ultrafine Cu2O/CuO nanosheet arrays integrated with NPC/BMG composite rod for photocatalytic degradation. Applied Surface Science, 2019, 483, 285-293. | 3.1 | 36 |
| 22 | Porous CuxO/Ag2O (xÂ=Â1, 2) nanowires anodized on nanoporous Cu-Ag bimetal network as a self-supported flexible electrode for glucose sensing. Applied Surface Science, 2020, 515, 146062. | 3.1 | 34 |
| 23 | Three-dimensional electrode with conductive Cu framework for stable and fast Li-ion storage. Energy Storage Materials, 2018, 11, 83-90. | 9.5 | 32 |
| 24 | Flexible porous Ni(OH)2 nanopetals sandwiches for wearable non-enzyme glucose sensors. Applied Surface Science, 2021, 552, 149529. | 3.1 | 30 |
| 25 | Dealloying of Cu-Based Metallic Glasses in Acidic Solutions: Products and Energy Storage Applications. Nanomaterials, 2015, 5, 697-721. | 1.9 | 28 |
| 26 | Chemical Dealloying Synthesis of CuS Nanowire-on-Nanoplate Network as Anode Materials for Li-Ion Batteries. Metals, 2018, 8, 252. | 1.0 | 28 |
| 27 | Hierarchical nanoporous Pd<sub>1</sub>Ag<sub>1</sub> alloy enables efficient electrocatalytic nitrogen reduction under ambient conditions. Chemical Communications, 2019, 55, 10108-10111. | 2.2 | 28 |
| 28 | Nanoporous GeO2/Cu/Cu2O network synthesized by dealloying method for stable Li-ion storage. Electrochimica Acta, 2019, 300, 363-372. | 2.6 | 28 |
| 29 | Novel bioactive Fe-based metallic glasses with excellent apatite-forming ability. Materials Science and Engineering C, 2016, 69, 513-521. | 3.8 | 27 |
| 30 | Formation and evolution of ultrathin Cu2O nanowires on NPC ribbon by anodizing for photocatalytic degradation. Applied Surface Science, 2020, 506, 144819. | 3.1 | 27 |
| 31 | Dispersion of carbon nanotubes in hydroxyapatite powder by in situ chemical vapor deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 166, 19-23. | 1.7 | 24 |
| 32 | Hierarchically Porous Carbon Derived from Biomass Reed Flowers as Highly Stable Li-Ion Battery Anode. Nanomaterials, 2020, 10, 346. | 1.9 | 24 |
| 33 | 3D nanoporous Ni@NiO/metallic glass sandwich electrodes without corrosion cracks for flexible supercapacitor application. Applied Surface Science, 2021, 545, 149043. | 3.1 | 24 |
| 34 | One-step synthesis of CuO@brass foil by dealloying method for low-cost flexible supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2016, 27, 9206-9215. | 1.1 | 23 |
| 35 | Porous TiO2/Fe2O3 nanoplate composites prepared by de-alloying method for Li-ion batteries. Materials Letters, 2018, 211, 254-257. | 1.3 | 23 |
| 36 | Sn modified nanoporous Ge for improved lithium storage performance. Journal of Colloid and Interface Science, 2021, 602, 563-572. | 5.0 | 23 |

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|---|---|---|---|
| 37 | A Ni(OH)<sub>2</sub> nanopetals network for high-performance supercapacitors synthesized by immersing Ni nanofoam in water. Beilstein Journal of Nanotechnology, 2019, 10, 281-293. | 1.5 | 22 |
| 38 | Improving the cycling stability of three-dimensional nanoporous Ge anode by embedding Ag nanoparticles for high-performance lithium-ion battery. Journal of Colloid and Interface Science, 2021, 592, 103-115. | 5.0 | 22 |
| 39 | Defective ZnOx@porous carbon nanofiber network inducing dendrite-free zinc plating as zinc metal anode for high-performance aqueous rechargeable Zn/Na4Mn9O18 battery based on hybrid electrolyte. Journal of Power Sources, 2022, 518, 230761. | 4.0 | 20 |
| 40 | Facile fabrication of polyether sulfone (PES) protecting layer on Cu foil for stable Li metal anode. Electrochimica Acta, 2018, 260, 407-412. | 2.6 | 19 |
| 41 | Synthesis of Cu xO(x = 1,2)/amorphous compounds by dealloying and spontaneous oxidation method. Materials Research, 2014, 17, 33-37. | 0.6 | 17 |
| 42 | Corrosion behavior of closed-cell AZ31 Mg alloy foam in NaCl aqueous solutions. Corrosion Science, 2014, 80, 247-256. | 3.0 | 17 |
| 43 | Improved Discharge Performance of Mg-6Al-7Pb Alloy by Microalloying with Ce. International Journal of Electrochemical Science, 2018, 13, 10325-10338. | 0.5 | 17 |
| 44 | Chemical-dealloying to fabricate nonconductive interlayers for high-loading lithium sulfur batteries. Journal of Alloys and Compounds, 2019, 806, 881-888. | 2.8 | 16 |
| 45 | Effect of Titanium, Antimony, Cerium and Carbon Nanotubes on the Morphology and Microhardness of Mg-based Icosahedral Quasicrystal Phase. Journal of Materials Science and Technology, 2010, 26, 27-32. | 5.6 | 15 |
| 46 | Biodegradable Mgâ€“Znâ€“Ca-Based Metallic Glasses. Materials, 2022, 15, 2172. | 1.3 | 15 |
| 47 | Improved sodium-ion storage properties by fabricating nanoporous CuSn alloy architecture. RSC Advances, 2017, 7, 29458-29463. | 1.7 | 14 |
| 48 | Ag particles modified CuxO (xâ€¯=â€¯1, 2) nanowires on nanoporous Cu-Ag bimetal network for antibacterial applications. Materials Letters, 2020, 258, 126823. | 1.3 | 14 |
| 49 | NiCo2S4 nanoparticles embedded in nitrogen-doped carbon nanotubes networks as effective sulfur carriers for advanced Lithiumâ€“Sulfur batteries. Microporous and Mesoporous Materials, 2021, 316, 110924. | 2.2 | 13 |
| 50 | Self-standing porous Au/CuO nanowires with remarkably enhanced visible light absorption and photocatalytic performance. Applied Surface Science, 2022, 594, 153443. | 3.1 | 13 |
| 51 | Flower-like Ni3S2 hollow microspheres as superior sulfur hosts for lithium-sulfur batteries. Microporous and Mesoporous Materials, 2021, 326, 111355. | 2.2 | 12 |
| 52 | Nanoporous Quasi-High-Entropy Alloy Microspheres. Metals, 2019, 9, 345. | 1.0 | 11 |
| 53 | Porous Si/Fe2O3 Dual Network Anode for Lithiumâ€“Ion Battery Application. Nanomaterials, 2020, 10, 2331. | 1.9 | 11 |
| 54 | Dual network porous Si/Al9FeSi3/Fe2O3 composite for high performance Li-ion battery anode. Electrochimica Acta, 2020, 358, 136936. | 2.6 | 11 |

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|---|---|---|---|
| 55 | Microstructure and discharge performance of Mgâ€“6Al and Mgâ€“6Al-0.5Er alloys. Materials Chemistry and Physics, 2022, 280, 125822. | 2.0 | 11 |
| 56 | Tailored Dealloying Products of Cu-based Metallic Glasses in Hydrochloric Acid Solutions. Materials Research, 2014, 17, 1003-1009. | 0.6 | 10 |
| 57 | The effect of an external magnetic field on the dealloying process of the Niâ€“Al alloy in alkaline solution. Physical Chemistry Chemical Physics, 2017, 19, 18167-18171. | 1.3 | 10 |
| 58 | Preparation and Electrochemical Properties of Pomegranate-Shaped Fe2O3/C Anodes for Li-ion Batteries. Nanoscale Research Letters, 2018, 13, 344. | 3.1 | 10 |
| 59 | Hierarchical nanoporous metal/BMG composite rods with excellent mechanical properties. Intermetallics, 2016, 77, 1-5. | 1.8 | 9 |
| 60 | Controlling the Mechanical Properties of Bulk Metallic Glasses by Superficial Dealloyed Layer. Nanomaterials, 2017, 7, 352. | 1.9 | 9 |
| 61 | Synergetic enhancement of the electronic/ionic conductivity of a Li-ion battery by fabrication of a carbon-coated nanoporous SnOxSb alloy anode. Nanoscale, 2018, 10, 7605-7611. | 2.8 | 9 |
| 62 | Performances of Al-xLi alloy anodes for Al-air batteries in alkaline electrolyte. Journal of Alloys and Compounds, 2021, 889, 161677. | 2.8 | 9 |
| 63 | Synthesis of Si/Fe2O3-Anchored rGO Frameworks as High-Performance Anodes for Li-Ion Batteries. International Journal of Molecular Sciences, 2021, 22, 11041. | 1.8 | 9 |
| 64 | Effects of Ag, Nd, and Yb on the Microstructures and Mechanical Properties of Mgâ€'Znâ€'Ca Metallic Glasses. Metals, 2018, 8, 856. | 1.0 | 7 |
| 65 | Mechanical Properties and Degradation Behavior of Mg(100â^'7x)Zn6xYx(x = 0.2, 0.4, 0.6, 0.8) Alloys. Metals, 2018, 8, 261. | 1.0 | 7 |
| 66 | Facile Preparation of Inverse Nanoporous Cr<sub>2</sub>O<sub>3</sub>/Cu Catalysts for Reverse Waterâ€Gas Shift Reaction. ChemCatChem, 2019, 11, 5439-5443. | 1.8 | 7 |
| 67 | Improving the Cycling Stability of Fe3O4/NiO Anode for Lithium Ion Battery by Constructing Novel Bimodal Nanoporous Urchin Network. Nanomaterials, 2020, 10, 1890. | 1.9 | 7 |
| 68 | AlF3 microrods modified nanoporous Ge/Ag anodes fabricated by one-step dealloying strategy for stable lithium storage. Materials Letters, 2020, 276, 128254. | 1.3 | 7 |
| 69 | Stearic Acid Coated MgO Nanoplate Arrays as Effective Hydrophobic Films for Improving Corrosion Resistance of Mg-Based Metallic Glasses. Nanomaterials, 2020, 10, 947. | 1.9 | 6 |
| 70 | Microstructure, Mechanical and Corrosion Properties of Mg-1.61Al-1.76Ca Alloy under Different Extrusion Temperatures. Journal of Materials Engineering and Performance, 2020, 29, 672-680. | 1.2 | 6 |
| 71 | Controllable nanoporous copper synthesized by dealloying metallic glasses: New insights into the tuning pore structure and applications. Chemical Engineering Journal, 2021, 427, 130861. | 6.6 | 6 |
| 72 | Effect of the pre-homogenization on the precipitation behaviors, mechanical and corrosion properties of as-extruded Mg Y binary alloys. Materials Characterization, 2021, 178, 111307. | 1.9 | 6 |

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|---|---|---|---|
| 73 | Surface Morphologies and Mechanical Properties of Mg-Zn-Ca Amorphous Alloys under Chemistry-Mechanics Interactive Environments. Metals, 2019, 9, 327. | 1.0 | 5 |
| 74 | Fabrication and corrosion resistance of Mg-Zn-Y-based nano-quasicrystals alloys. Materials Research, 2012, 15, 51-56. | 0.6 | 4 |
| 75 | Flexible Free-Standing CuxO/Ag2O (x = 1, 2) Nanowires Integrated with Nanoporous Cu-Ag Network Composite for Glucose Sensing. Nanomaterials, 2020, 10, 357. | 1.9 | 4 |
| 76 | Direct Preparation of Nano-Quasicrystals via a Water-Cooled Wedge-Shaped Copper Mould. Journal of Nanomaterials, 2012, 2012, 1-6. | 1.5 | 3 |
| 77 | Mn3O4 Octahedral Microparticles Prepared by Facile Dealloying Process as Efficient Sulfur Hosts for Lithium/Sulfur Batteries. Metals, 2018, 8, 515. | 1.0 | 3 |
| 78 | Microstructure and Corrosion behavior of Friction Stir-Welded AZ31 alloy. International Journal of Electrochemical Science, 2020, , 1058-1071. | 0.5 | 3 |
| 79 | A comparable study of Mg98.15Y1Zn0.85 sheets fabricated by twin-roll casting and direct-chill casting and related annealing behavior. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 815, 141316. | 2.6 | 3 |
| 80 | Tunable Nanocrystals Fabricated by Free Dealloying of Amorphous Ribbons. Journal of Nanomaterials, 2012, 2012, 1-6. | 1.5 | 2 |
| 81 | Mg-Based Quasicrystals. , 0, , . | | 2 |
| 82 | Effect of Deformation and Heat Treatment on Pitting Corrosion Behavior of 7050 Al Alloy. International Journal of Electrochemical Science, 2020, , 7531-7544. | 0.5 | 2 |
| 83 | Microstructural Evolution and Mechanical Properties of Pure Aluminum upon Multi-Pass Caliber Rolling. Materials, 2022, 15, 1206. | 1.3 | 2 |
| 84 | Effect of 1wt%Zn Addition on Microstructure and Mechanical Properties of Mg-6Er Alloys under High Strain Rates. Metals, 2022, 12, 883. | 1.0 | 2 |
| 85 | Microstructure and Mechanical Properties of AA1235 Aluminum Foil Stocks Produced Directly from Electrolytic Aluminum Melt. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 731-739. | 1.0 | 1 |
| 86 | Effect of Solution Temperature on Corrosion Behavior of 7050 Alloy after Heat Treatment in 3.5% NaCl Solution. International Journal of Electrochemical Science, 2021, 16, 210939. | 0.5 | 1 |