

# Zhifeng Wang

## List of Publications by Year in descending order

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86  
papers

2,082  
citations

201385

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276539

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86  
docs citations

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times ranked

2239  
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Journal of Power Sources</i> , 2022, 518, 230761.	4.0	20
2	Microstructural Evolution and Mechanical Properties of Pure Aluminum upon Multi-Pass Caliber Rolling. <i>Materials</i> , 2022, 15, 1206.	1.3	2
3	Microstructure and discharge performance of Mg-6Al and Mg-6Al-0.5Er alloys. <i>Materials Chemistry and Physics</i> , 2022, 280, 125822.	2.0	11
4	Biodegradable Mg-Zn-Ca-Based Metallic Glasses. <i>Materials</i> , 2022, 15, 2172.	1.3	15
5	Self-standing porous Au/CuO nanowires with remarkably enhanced visible light absorption and photocatalytic performance. <i>Applied Surface Science</i> , 2022, 594, 153443.	3.1	13
6	Effect of 1wt%Zn Addition on Microstructure and Mechanical Properties of Mg-6Er Alloys under High Strain Rates. <i>Metals</i> , 2022, 12, 883.	1.0	2
7	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. <i>Journal of Materials Science and Technology</i> , 2021, 60, 77-89.	5.6	57
8	NiCo2S4 nanoparticles embedded in nitrogen-doped carbon nanotubes networks as effective sulfur carriers for advanced Lithium-Sulfur batteries. <i>Microporous and Mesoporous Materials</i> , 2021, 316, 110924.	2.2	13
9	3D nanoporous Ni@NiO/metallic glass sandwich electrodes without corrosion cracks for flexible supercapacitor application. <i>Applied Surface Science</i> , 2021, 545, 149043.	3.1	24
10	A comparable study of Mg98.15Y1Zn0.85 sheets fabricated by twin-roll casting and direct-chill casting and related annealing behavior. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 815, 141316.	2.6	3
11	Flexible porous Ni(OH)2 nanopetals sandwiches for wearable non-enzyme glucose sensors. <i>Applied Surface Science</i> , 2021, 552, 149529.	3.1	30
12	Improving the cycling stability of three-dimensional nanoporous Ge anode by embedding Ag nanoparticles for high-performance lithium-ion battery. <i>Journal of Colloid and Interface Science</i> , 2021, 592, 103-115.	5.0	22
13	Controllable nanoporous copper synthesized by dealloying metallic glasses: New insights into the tuning pore structure and applications. <i>Chemical Engineering Journal</i> , 2021, 427, 130861.	6.6	6
14	Flexible Co(OH)2/NiOxHy@Ni hybrid electrodes for high energy density supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 415, 128871.	6.6	55
15	Effect of the pre-homogenization on the precipitation behaviors, mechanical and corrosion properties of as-extruded Mg-Y binary alloys. <i>Materials Characterization</i> , 2021, 178, 111307.	1.9	6
16	Effect of Solution Temperature on Corrosion Behavior of 7050 Alloy after Heat Treatment in 3.5% NaCl Solution. <i>International Journal of Electrochemical Science</i> , 2021, 16, 210939.	0.5	1
17	Flower-like Ni3S2 hollow microspheres as superior sulfur hosts for lithium-sulfur batteries. <i>Microporous and Mesoporous Materials</i> , 2021, 326, 111355.	2.2	12
18	Sn modified nanoporous Ge for improved lithium storage performance. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 563-572.	5.0	23

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19	Performances of Al-xLi alloy anodes for Al-air batteries in alkaline electrolyte. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161677.	2.8	9
20	Synthesis of Si/Fe <sub>2</sub> O <sub>3</sub> -Anchored rGO Frameworks as High-Performance Anodes for Li-Ion Batteries. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11041.	1.8	9
21	Ag particles modified Cu <sub>x</sub> O (x = 1, 2) nanowires on nanoporous Cu-Ag bimetal network for antibacterial applications. <i>Materials Letters</i> , 2020, 258, 126823.	1.3	14
22	Discharge Behavior of Mg-Sn-Zn-Ag Alloys with Different Sn Contents as Anodes for Mg-air Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020501.	1.3	42
23	Flexible integrated metallic glass-based sandwich electrodes for high-performance wearable all-solid-state supercapacitors. <i>Applied Materials Today</i> , 2020, 19, 100539.	2.3	45
24	Bimodal nanoporous NiO@Ni-Si network prepared by dealloying method for stable Li-ion storage. <i>Journal of Power Sources</i> , 2020, 449, 227550.	4.0	42
25	Formation and evolution of ultrathin Cu <sub>2</sub> O nanowires on NPC ribbon by anodizing for photocatalytic degradation. <i>Applied Surface Science</i> , 2020, 506, 144819.	3.1	27
26	Improving the Cycling Stability of Fe <sub>3</sub> O <sub>4</sub> /NiO Anode for Lithium Ion Battery by Constructing Novel Bimodal Nanoporous Urchin Network. <i>Nanomaterials</i> , 2020, 10, 1890.	1.9	7
27	Porous Si/Fe <sub>2</sub> O <sub>3</sub> Dual Network Anode for Lithium Ion Battery Application. <i>Nanomaterials</i> , 2020, 10, 2331.	1.9	11
28	Dual network porous Si/Al <sub>9</sub> FeSi <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> composite for high performance Li-ion battery anode. <i>Electrochimica Acta</i> , 2020, 358, 136936.	2.6	11
29	Effect of Deformation and Heat Treatment on Pitting Corrosion Behavior of 7050 Al Alloy. <i>International Journal of Electrochemical Science</i> , 2020, , 7531-7544.	0.5	2
30	Stearic Acid Coated MgO Nanoplate Arrays as Effective Hydrophobic Films for Improving Corrosion Resistance of Mg-Based Metallic Glasses. <i>Nanomaterials</i> , 2020, 10, 947.	1.9	6
31	Microstructure and Corrosion behavior of Friction Stir-Welded AZ31 alloy. <i>International Journal of Electrochemical Science</i> , 2020, , 1058-1071.	0.5	3
32	AlF <sub>3</sub> microrods modified nanoporous Ge/Ag anodes fabricated by one-step dealloying strategy for stable lithium storage. <i>Materials Letters</i> , 2020, 276, 128254.	1.3	7
33	Discharge properties of low-alloyed Mg-Bi-Ca alloys as anode materials for Mg-air batteries: Influence of Ca alloying. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153779.	2.8	52
34	Flexible Free-Standing Cu <sub>x</sub> O/Ag <sub>2</sub> O (x = 1, 2) Nanowires Integrated with Nanoporous Cu-Ag Network Composite for Glucose Sensing. <i>Nanomaterials</i> , 2020, 10, 357.	1.9	4
35	Microstructure, Mechanical and Corrosion Properties of Mg-1.61Al-1.76Ca Alloy under Different Extrusion Temperatures. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 672-680.	1.2	6
36	Hierarchically Porous Carbon Derived from Biomass Reed Flowers as Highly Stable Li-Ion Battery Anode. <i>Nanomaterials</i> , 2020, 10, 346.	1.9	24

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37	High specific surface area bimodal porous carbon derived from biomass reed flowers for high performance lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 22-33.	5.0	103
38	Dual-network nanoporous NiFe <sub>2</sub> O <sub>4</sub> /NiO composites for high performance Li-ion battery anodes. <i>Chemical Engineering Journal</i> , 2020, 388, 124207.	6.6	54
39	Porous Cu <sub>x</sub> O/Ag <sub>2</sub> O (x=1, 2) nanowires anodized on nanoporous Cu-Ag bimetal network as a self-supported flexible electrode for glucose sensing. <i>Applied Surface Science</i> , 2020, 515, 146062.	3.1	34
40	Hierarchical nanoporous Pd <sub>1</sub> Ag <sub>1</sub> alloy enables efficient electrocatalytic nitrogen reduction under ambient conditions. <i>Chemical Communications</i> , 2019, 55, 10108-10111.	2.2	28
41	Chemical-dealloying to fabricate nonconductive interlayers for high-loading lithium sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2019, 806, 881-888.	2.8	16
42	Facile Preparation of Inverse Nanoporous Cr <sub>2</sub> O <sub>3</sub> /Cu Catalysts for Reverse Water-Gas Shift Reaction. <i>ChemCatChem</i> , 2019, 11, 5439-5443.	1.8	7
43	A Ni(OH) <sub>2</sub> nanopetals network for high-performance supercapacitors synthesized by immersing Ni nanofoam in water. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 281-293.	1.5	22
44	Nanoporous GeO <sub>2</sub> /Cu/Cu <sub>2</sub> O network synthesized by dealloying method for stable Li-ion storage. <i>Electrochimica Acta</i> , 2019, 300, 363-372.	2.6	28
45	Nanoporous Cu@Cu <sub>2</sub> O hybrid arrays enable photo-assisted supercapacitor with enhanced capacities. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15691-15697.	5.2	66
46	Surface Morphologies and Mechanical Properties of Mg-Zn-Ca Amorphous Alloys under Chemistry-Mechanics Interactive Environments. <i>Metals</i> , 2019, 9, 327.	1.0	5
47	Nanoporous Quasi-High-Entropy Alloy Microspheres. <i>Metals</i> , 2019, 9, 345.	1.0	11
48	AZ61 and AZ61-La Alloys as Anodes for Mg-Air Battery. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 2006-2016.	1.2	39
49	Ultrafine Cu <sub>2</sub> O/CuO nanosheet arrays integrated with NPC/BMG composite rod for photocatalytic degradation. <i>Applied Surface Science</i> , 2019, 483, 285-293.	3.1	36
50	Tailoring nanoporous structures of Ge anodes for stable potassium-ion batteries. <i>Electrochemistry Communications</i> , 2019, 101, 68-72.	2.3	67
51	Bimodal nanoporous Pd <sub>3</sub> Cu <sub>1</sub> alloy with restrained hydrogen evolution for stable and high yield electrochemical nitrogen reduction. <i>Nano Energy</i> , 2019, 58, 834-841.	8.2	145
52	Flexible NiO micro-rods/nanoporous Ni/metallic glass electrode with sandwich structure for high performance supercapacitors. <i>Electrochimica Acta</i> , 2019, 297, 767-777.	2.6	64
53	Synergetic enhancement of the electronic/ionic conductivity of a Li-ion battery by fabrication of a carbon-coated nanoporous SnO <sub>x</sub> Sb alloy anode. <i>Nanoscale</i> , 2018, 10, 7605-7611.	2.8	9
54	Facile fabrication of CuS microflower as a highly durable sodium-ion battery anode. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1045-1052.	3.0	52

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55	Porous TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> nanoplate composites prepared by de-alloying method for Li-ion batteries. <i>Materials Letters</i> , 2018, 211, 254-257.	1.3	23
56	Three-dimensional electrode with conductive Cu framework for stable and fast Li-ion storage. <i>Energy Storage Materials</i> , 2018, 11, 83-90.	9.5	32
57	Facile fabrication of polyether sulfone (PES) protecting layer on Cu foil for stable Li metal anode. <i>Electrochimica Acta</i> , 2018, 260, 407-412.	2.6	19
58	Preparation and Electrochemical Properties of Pomegranate-Shaped Fe <sub>2</sub> O <sub>3</sub> /C Anodes for Li-ion Batteries. <i>Nanoscale Research Letters</i> , 2018, 13, 344.	3.1	10
59	Improved Discharge Performance of Mg-6Al-7Pb Alloy by Microalloying with Ce. <i>International Journal of Electrochemical Science</i> , 2018, 13, 10325-10338.	0.5	17
60	Effects of Ag, Nd, and Yb on the Microstructures and Mechanical Properties of Mg <sub>80</sub> Zn <sub>10</sub> Ca <sub>10</sub> Metallic Glasses. <i>Metals</i> , 2018, 8, 856.	1.0	7
61	Stable nanoporous Sn/SnO <sub>2</sub> composites for efficient electroreduction of CO <sub>2</sub> to formate over wide potential range. <i>Applied Materials Today</i> , 2018, 13, 135-143.	2.3	58
62	Mn <sub>3</sub> O <sub>4</sub> Octahedral Microparticles Prepared by Facile Dealloying Process as Efficient Sulfur Hosts for Lithium/Sulfur Batteries. <i>Metals</i> , 2018, 8, 515.	1.0	3
63	Chemical Dealloying Synthesis of CuS Nanowire-on-Nanoplate Network as Anode Materials for Li-Ion Batteries. <i>Metals</i> , 2018, 8, 252.	1.0	28
64	Mechanical Properties and Degradation Behavior of Mg(100-7x)Zn <sub>6x</sub> Y <sub>x</sub> (x = 0.2, 0.4, 0.6, 0.8) Alloys. <i>Metals</i> , 2018, 8, 261.	1.0	7
65	Yucca fern shaped CuO nanowires on Cu foam for remitting capacity fading of Li-ion battery anodes. <i>Scientific Reports</i> , 2018, 8, 6530.	1.6	56
66	Improved sodium-ion storage properties by fabricating nanoporous CuSn alloy architecture. <i>RSC Advances</i> , 2017, 7, 29458-29463.	1.7	14
67	CoFe <sub>2</sub> O <sub>4</sub> nanoplates synthesized by dealloying method as high performance Li-ion battery anodes. <i>Electrochimica Acta</i> , 2017, 252, 295-305.	2.6	63
68	The effect of an external magnetic field on the dealloying process of the Ni-Al alloy in alkaline solution. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18167-18171.	1.3	10
69	Controlling the Mechanical Properties of Bulk Metallic Glasses by Superficial Dealloyed Layer. <i>Nanomaterials</i> , 2017, 7, 352.	1.9	9
70	One-step synthesis of CuO@brass foil by dealloying method for low-cost flexible supercapacitor electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 9206-9215.	1.1	23
71	Hierarchical nanoporous metal/BMG composite rods with excellent mechanical properties. <i>Intermetallics</i> , 2016, 77, 1-5.	1.8	9
72	Novel bioactive Fe-based metallic glasses with excellent apatite-forming ability. <i>Materials Science and Engineering C</i> , 2016, 69, 513-521.	3.8	27

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73	Crystalline Cu-silicide stabilizes the performance of a high capacity Si-based Li-ion battery anode. <i>Journal of Materials Chemistry A</i> , 2016, 4, 19140-19146.	5.2	37
74	Microstructure and Mechanical Properties of AA1235 Aluminum Foil Stocks Produced Directly from Electrolytic Aluminum Melt. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 731-739.	1.0	1
75	Dealloying of Cu-Based Metallic Glasses in Acidic Solutions: Products and Energy Storage Applications. <i>Nanomaterials</i> , 2015, 5, 697-721.	1.9	28
76	Fabrication and new electrochemical properties of nanoporous Cu by dealloying amorphous Cu-Al alloys. <i>Intermetallics</i> , 2015, 56, 48-55.	1.8	48
77	Tailored Dealloying Products of Cu-based Metallic Glasses in Hydrochloric Acid Solutions. <i>Materials Research</i> , 2014, 17, 1003-1009.	0.6	10
78	Synthesis of Cu <sub>x</sub> O (x = 1,2)/amorphous compounds by dealloying and spontaneous oxidation method. <i>Materials Research</i> , 2014, 17, 33-37.	0.6	17
79	Corrosion behavior of closed-cell AZ31 Mg alloy foam in NaCl aqueous solutions. <i>Corrosion Science</i> , 2014, 80, 247-256.	3.0	17
80	Tunable Nanocrystals Fabricated by Free Dealloying of Amorphous Ribbons. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-6.	1.5	2
81	Direct Preparation of Nano-Quasicrystals via a Water-Cooled Wedge-Shaped Copper Mould. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-6.	1.5	3
82	Fabrication and corrosion resistance of Mg-Zn-Y-based nano-quasicrystals alloys. <i>Materials Research</i> , 2012, 15, 51-56.	0.6	4
83	The analysis of residual stress in glass-to-metal seals for solar receiver tube. <i>Materials &amp; Design</i> , 2010, 31, 1813-1820.	5.1	37
84	Dispersion of carbon nanotubes in hydroxyapatite powder by in situ chemical vapor deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 166, 19-23.	1.7	24
85	Effect of Titanium, Antimony, Cerium and Carbon Nanotubes on the Morphology and Microhardness of Mg-based Icosahedral Quasicrystal Phase. <i>Journal of Materials Science and Technology</i> , 2010, 26, 27-32.	5.6	15
86	Mg-Based Quasicrystals. , 0, , .		2