

Yufeng Zhao

List of Publications by Year in descending order

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106
papers

9,336
citations

36303

51
h-index

39675

94
g-index

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all docs

110
docs citations

110
times ranked

10105
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high volumetric capacitance and cyclic stability of fluorine and nitrogen co-doped carbon microspheres. <i>Nature Communications</i> , 2015, 6, 8503.	12.8	529
2	An Isolated Zinc-Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2622-2626.	13.8	494
3	N-Doping and Defective Nanographitic Domain Coupled Hard Carbon Nanoshells for High Performance Lithium/Sodium Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1706294.	14.9	392
4	Nickel Cobalt Hydroxide @ Reduced Graphene Oxide Hybrid Nanolayers for High Performance Asymmetric Supercapacitors with Remarkable Cycling Stability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1992-2000.	8.0	360
5	High-Performance Asymmetric Supercapacitors Based on Multilayer MnO ₂ /Graphene Oxide Nanoflakes and Hierarchical Porous Carbon with Enhanced Cycling Stability. <i>Small</i> , 2015, 11, 1310-1319.	10.0	326
6	Atomically dispersed metal catalysts for the oxygen reduction reaction: synthesis, characterization, reaction mechanisms and electrochemical energy applications. <i>Energy and Environmental Science</i> , 2019, 12, 2890-2923.	30.8	317
7	Oxygen-Rich Hierarchical Porous Carbon Derived from Artemia Cyst Shells with Superior Electrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1132-1139.	8.0	257
8	Challenges and opportunities for supercapacitors. <i>APL Materials</i> , 2019, 7, .	5.1	257
9	N,B-codoped defect-rich graphitic carbon nanocages as high performance multifunctional electrocatalysts. <i>Nano Energy</i> , 2017, 42, 334-340.	16.0	238
10	N-P-O co-doped high performance 3D graphene prepared through red phosphorous-assisted "cutting-thin" technique: A universal synthesis and multifunctional applications. <i>Nano Energy</i> , 2016, 28, 346-355.	16.0	217
11	Distinguished Zn,Co-N _x -C-S _y active sites confined in dendritic carbon for highly efficient oxygen reduction reaction and flexible Zn-air Batteries. <i>Nano Energy</i> , 2019, 58, 277-283.	16.0	204
12	Cobalt single atom site isolated Pt nanoparticles for efficient ORR and HER in acid media. <i>Nano Energy</i> , 2021, 88, 106221.	16.0	181
13	Supported dual-atom catalysts: Preparation, characterization, and potential applications. <i>Chinese Journal of Catalysis</i> , 2020, 41, 783-798.	14.0	174
14	Recent Progress in Advanced Organic Electrode Materials for Sodium-Ion Batteries: Synthesis, Mechanisms, Challenges and Perspectives. <i>Advanced Functional Materials</i> , 2020, 30, 1908445.	14.9	173
15	Nanostructured cathode materials for lithium-sulfur batteries: progress, challenges and perspectives. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3014-3038.	10.3	165
16	Turning on Zn 4s Electrons in a N ₂ -Zn ₂ Configuration to Stimulate Remarkable ORR Performance. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 181-185.	13.8	161
17	Hybrid energy storage devices: Advanced electrode materials and matching principles. <i>Energy Storage Materials</i> , 2019, 21, 22-40.	18.0	160
18	N-graphene motivated SnO ₂ @SnS ₂ heterostructure quantum dots for high performance lithium/sodium storage. <i>Energy Storage Materials</i> , 2019, 20, 225-233.	18.0	159

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19	A highly electronic conductive cobalt nickel sulphide dendrite/quasi-spherical nanocomposite for a supercapacitor electrode with ultrahigh areal specific capacitance. <i>Journal of Power Sources</i> , 2015, 295, 314-322.	7.8	157
20	Template-free hydrothermal synthesis of nickel cobalt hydroxide nanoflowers with high performance for asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2015, 161, 279-289.	5.2	149
21	All-solid-state high performance asymmetric supercapacitors based on novel MnS nanocrystal and activated carbon materials. <i>Scientific Reports</i> , 2016, 6, 23289.	3.3	147
22	FeP Quantum Dots Confined in Carbon@Nanotube@Grafted P-doped Carbon Octahedra for High-Rate Sodium Storage and Full-Cell Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909283.	14.9	143
23	Monolayer Nickel Cobalt Hydroxyl Carbonate for High Performance All-Solid-State Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22997-23005.	8.0	140
24	A covalent heterostructure of monodisperse Ni ₂ P immobilized on N, P-co-doped carbon nanosheets for high performance sodium/lithium storage. <i>Nano Energy</i> , 2018, 48, 510-517.	16.0	139
25	Morphology controlled synthesis of monodisperse cobalt hydroxide for supercapacitor with high performance and long cycle life. <i>Journal of Power Sources</i> , 2014, 256, 160-169.	7.8	137
26	Co ₂ P quantum dot embedded N, P dual-doped carbon self-supported electrodes with flexible and binder-free properties for efficient hydrogen evolution reactions. <i>Nanoscale</i> , 2018, 10, 2902-2907.	5.6	136
27	Honeycomb-like mesoporous cobalt nickel phosphate nanospheres as novel materials for high performance supercapacitor. <i>Electrochimica Acta</i> , 2016, 190, 118-125.	5.2	133
28	Enhanced Fe 3d delocalization and moderate spin polarization in Fe Ni atomic pairs for bifunctional ORR and OER electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119778.	20.2	131
29	Itinerant ferromagnetic half metallic cobalt-iron couples: promising bifunctional electrocatalysts for ORR and OER. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27175-27185.	10.3	122
30	Vapor deposition polymerization of aniline on 3D hierarchical porous carbon with enhanced cycling stability as supercapacitor electrode. <i>Journal of Power Sources</i> , 2015, 286, 1-9.	7.8	108
31	A review of phosphorus and phosphides as anode materials for advanced sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4996-5048.	10.3	108
32	Enabling Fast Na ⁺ Transfer Kinetics in the Whole Voltage-Region of Hard-Carbon Anodes for Ultrahigh-Rate Sodium Storage. <i>Advanced Materials</i> , 2022, 34, e2109282.	21.0	108
33	Hydrothermal synthesis of a flower-like nano-nickel hydroxide for high performance supercapacitors. <i>Electrochimica Acta</i> , 2014, 123, 158-166.	5.2	102
34	Three dimensional few-layer porous carbon nanosheets towards oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 148-156.	20.2	99
35	Electrospun free-standing FeP@NPC film for flexible sodium ion batteries with remarkable cycling stability. <i>Energy Storage Materials</i> , 2020, 29, 78-83.	18.0	92
36	Interface-rich core-shell ammonium nickel cobalt phosphate for high-performance aqueous hybrid energy storage device without a depressed power density. <i>Electrochimica Acta</i> , 2018, 272, 184-191.	5.2	88

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37	Hybridized Phosphate with Ultrathin Nanoslices and Single Crystal Microplatelets for High Performance Supercapacitors. <i>Scientific Reports</i> , 2016, 6, 17613.	3.3	86
38	Niobium-doped layered cathode material for high-power and low-temperature sodium-ion batteries. <i>Nature Communications</i> , 2022, 13, .	12.8	85
39	Molybdenum Carbide-Derived Chlorine-Doped Ordered Mesoporous Carbon with Few-Layered Graphene Walls for Energy Storage Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3702-3712.	8.0	75
40	High-Indexed PtNi Alloy Skin Spiraled on Pd Nanowires for Highly Efficient Oxygen Reduction Reaction Catalysis. <i>Small</i> , 2019, 15, e1900288.	10.0	73
41	Construction of a novel hierarchical structured $\text{NH}_4\text{-Co-Ni}$ phosphate toward an ultrastable aqueous hybrid capacitor. <i>Nanoscale</i> , 2016, 8, 6636-6645.	5.6	69
42	Modulating the Interlayer Spacing and $\text{Na}^+/\text{Vacancy}$ Disorder of $\text{P2-Na}_{0.67}\text{MnO}_2$ for Fast Diffusion and High-Rate Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6978-6985.	8.0	69
43	Synthesis of peanut-like hierarchical manganese carbonate microcrystals via magnetically driven self-assembly for high performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3923-3931.	10.3	65
44	Progress in and application prospects of advanced and cost-effective iron (Fe)-based cathode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1938-1969.	10.3	65
45	Recent Advances and Optimization Strategies on the Electrolytes for Hard Carbon and P-Based Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2006066.	14.9	63
46	A novel synthesis of carbon nanotubes directly from an indecomposable solid carbon source for electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2137-2146.	10.3	59
47	Morphology Controlled Synthesis of Nickel Cobalt Oxide for Supercapacitor Application with Enhanced Cycling Stability. <i>Electrochimica Acta</i> , 2015, 174, 51-56.	5.2	58
48	MOF-assisted synthesis of octahedral carbon-supported PtCu nanoalloy catalysts for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19348-19356.	10.3	58
49	A highly ordered multi-layered hydrogenated $\text{TiO}_2\text{-II}$ phase nanowire array negative electrode for 2.4V aqueous asymmetric supercapacitors with high energy density and long cycle life. <i>Journal of Materials Chemistry A</i> , 2018, 6, 623-632.	10.3	56
50	Electronic Structure Control of Tungsten Oxide Activated by Ni for Ultrahigh-Performance Supercapacitors. <i>Small</i> , 2018, 14, e1800381.	10.0	55
51	Interface-rich mixed P2 + T phase $\text{Na}_x\text{Co}_{0.1}\text{Mn}_{0.9}\text{O}_2$ (0.44 $\leq x \leq$ 0.7) toward fast and high capacity sodium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6675-6684.	10.3	54
52	A Multifunctional Separator Enables Safe and Durable Lithium/Magnesium-Sulfur Batteries under Elevated Temperature. <i>Advanced Energy Materials</i> , 2020, 10, 1902023.	19.5	51
53	Multihierarchical Structure of Hybridized Phosphates Anchored on Reduced Graphene Oxide for High Power Hybrid Energy Storage Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5679-5685.	6.7	49
54	A robust carbon coating of $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ cathode material for high performance sodium-ion batteries. <i>Chinese Chemical Letters</i> , 2021, 32, 3570-3574.	9.0	48

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55	Fabrication of TiO ₂ nano-branched arrays/Cu ₂ S composite structure and its photoelectric performance. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 27-35.	20.2	47
56	TiO ₂ Nanowire Arrays on Titanium Substrate as a Novel Binder-free Negative Electrode for Asymmetric Supercapacitor. <i>Electrochimica Acta</i> , 2017, 229, 197-207.	5.2	47
57	Modulating the Graphitic Domains of Hard Carbons Derived from Mixed Pitch and Resin to Achieve High Rate and Stable Sodium Storage. <i>Small</i> , 2022, 18, e2105568.	10.0	47
58	Synthesis of Sn-doped Mn ₃ O ₄ /C nanocomposites as supercapacitor electrodes with remarkable capacity retention. <i>Materials Letters</i> , 2014, 118, 80-83.	2.6	45
59	Synergistic effect of cobalt and nickel on the superior electrochemical performances of rGO anchored nickel cobalt binary sulfides. <i>Electrochimica Acta</i> , 2016, 212, 294-302.	5.2	45
60	A review of nickel-rich layered oxide cathodes: synthetic strategies, structural characteristics, failure mechanism, improvement approaches and prospects. <i>Applied Energy</i> , 2022, 305, 117849.	10.1	44
61	Titanium carbide derived nanoporous carbon for supercapacitor applications. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 19395-19400.	7.1	43
62	Wide Working Temperature Range Rechargeable Lithium-Sulfur Batteries: A Critical Review. <i>Advanced Functional Materials</i> , 2021, 31, 2107136.	14.9	43
63	Turning on Zn 4s Electrons in a N ₂ -Zn ₂ Configuration to Stimulate Remarkable ORR Performance. <i>Angewandte Chemie</i> , 2021, 133, 183-187.	2.0	42
64	Construction nasicon-type NaTi ₂ (PO ₄) ₃ nanoshell on the surface of P2-type Na _{0.67} Co _{0.2} Mn _{0.8} O ₂ cathode for superior room/low-temperature sodium storage. <i>Chemical Engineering Journal</i> , 2020, 402, 126181.	12.7	40
65	Molybdenum Carbide-PtCu Nanoalloy Heterostructures on MOF-Derived Carbon toward Efficient Hydrogen Evolution. <i>Small</i> , 2021, 17, e2104241.	10.0	40
66	A low cost single-crystalline LiNi _{0.60} Co _{0.10} Mn _{0.30} O ₂ layered cathode enables remarkable cycling performance of lithium-ion batteries at elevated temperature. <i>Journal of Power Sources</i> , 2021, 503, 230028.	7.8	35
67	Electrochemical performance of graphitized carbide-derived-carbon with hierarchical micro- and meso-pores in alkaline electrolyte. <i>Carbon</i> , 2014, 74, 226-236.	10.3	33
68	Identifying the Zn-Co binary as a robust bifunctional electrocatalyst in oxygen reduction and evolution reactions via shifting the apexes of the volcano plot. <i>Journal of Energy Chemistry</i> , 2021, 55, 162-168.	12.9	33
69	Recent Progress in Amorphous Carbon-Based Materials for Anodes of Sodium-Ion Batteries: Synthesis Strategies, Mechanisms, and Performance. <i>ChemSusChem</i> , 2021, 14, 3693-3723.	6.8	32
70	MOF-Derived Co ₃ O ₄ Polyhedrons as Efficient Polysulfides Barrier on Polyimide Separators for High Temperature Lithium-Sulfur Batteries. <i>Nanomaterials</i> , 2019, 9, 1574.	4.1	30
71	Recent advances in semimetallic pnictogen (As, Sb, Bi) based anodes for sodium-ion batteries: Structural design, charge storage mechanisms, key challenges and perspectives. <i>Nano Research</i> , 2021, 14, 3690-3723.	10.4	30
72	Nanocomposite electrode materials for low temperature solid oxide fuel cells using the ceria-carbonate composite electrolytes. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 19351-19356.	7.1	29

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73	Ultrahigh rate and durable sodium-ion storage at a wide potential window via lanthanide doping and perovskite surface decoration on layered manganese oxides. <i>Energy Storage Materials</i> , 2021, 42, 209-218.	18.0	29
74	Bismuth nanorods confined in hollow carbon structures for high performance sodium- and potassium-ion batteries. <i>Journal of Energy Chemistry</i> , 2022, 67, 787-796.	12.9	28
75	Cobalt oxides coated commercial Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ as high performance cathode for low-temperature SOFCs. <i>Electrochimica Acta</i> , 2016, 191, 223-229.	5.2	27
76	Reduced graphene oxide supported MnS nanotubes hybrid as a novel non-precious metal electrocatalyst for oxygen reduction reaction with high performance. <i>Journal of Power Sources</i> , 2017, 362, 1-9.	7.8	27
77	Achieving High-Energy Full-Cell Lithium-Storage Performance by Coupling High-Capacity V ₂ O ₃ with Low-Potential Ni ₂ P Anode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19-25.	8.0	26
78	Interface engineering of FeCo-Co structure as bifunctional oxygen electrocatalyst for rechargeable zinc-air batteries via alloying degree control strategy. <i>Chemical Engineering Journal</i> , 2022, 433, 133686.	12.7	25
79	Biotemplate assisted synthesis of 3D hierarchical porous NiO for supercapacitor application with excellent rate performance. <i>Materials Letters</i> , 2014, 128, 117-120.	2.6	24
80	Three-dimensional hierarchical porous hard carbon for excellent sodium/potassium storage and mechanism investigation. <i>Materials Today Energy</i> , 2021, 20, 100673.	4.7	24
81	A durable P2-type layered oxide cathode with superior low-temperature performance for sodium-ion batteries. <i>Science China Materials</i> , 2022, 65, 328-336.	6.3	22
82	Surfactant-free synthesis of highly methanol-tolerant, polyhedral Pd-Pt nanocrystallines for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2013, 239, 374-381.	7.8	21
83	Co, N co-doped porous carbons as high-performance oxygen reduction electrocatalysts. <i>New Carbon Materials</i> , 2021, 36, 209-218.	6.1	21
84	Synthesis of hierarchically porous LiNiCuZn-oxide and its electrochemical performance for low-temperature fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12317-12322.	7.1	19
85	Largely Increased Lithium Storage Ability of Manganese Oxide through a Continuous Electronic Structure Modulation and Elevated Capacitive Contribution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 740-747.	6.7	18
86	Trace Nb-doped Na _{0.7} Ni _{0.3} Co _{0.1} Mn _{0.6} O ₂ with suppressed voltage decay and enhanced low temperature performance. <i>Chinese Chemical Letters</i> , 2021, 32, 849-853.	9.0	17
87	Comparative study on three commercial carbons for supercapacitor applications. <i>Russian Journal of Electrochemistry</i> , 2015, 51, 77-85.	0.9	15
88	Construction of 3D carbon network with N,B,F-tridoping for efficient oxygen reduction reaction electrocatalysis and high performance zinc air battery. <i>Applied Surface Science</i> , 2020, 507, 145154.	6.1	15
89	A comprehensive modification enables the high rate capability of P2-Na _{0.75} Mn _{0.67} Ni _{0.33} O ₂ for sodium-ion cathode materials. <i>Journal of Energy Chemistry</i> , 2022, 69, 442-449.	12.9	15
90	Ru ₉ Zn ₇ Sb ₈ : A Structure with a 2 × 2 Supercell of the Half-Heusler Phase. <i>Inorganic Chemistry</i> , 2010, 49, 10536-10542.	4.0	13

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91	A commercial lithium battery LiMn-oxide for fuel cell applications. <i>Materials Letters</i> , 2014, 126, 85-88.	2.6	10
92	P ₄ Nb ₂ O ₁₅ @CNTs: A New Type of Niobium Phosphate Compositing Carbon Nanotube Used as Anode Material for High-Rate Lithium Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 216-223.	6.7	10
93	Sb ₂ S ₃ @YP Nanostructured Anode Material Synthesized by a Novel Vaporization-Condensation Method for Long Cycle-Life Sodium-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2020, 167, 140531.	2.9	10
94	Synthesis and characterization of hierarchical porous LiNiCuZn-oxides as potential electrode materials for low temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16558-16562.	7.1	9
95	Hierarchical porous TiO ₂ templated from natural Artemia cyst shells for photocatalysis applications. <i>RSC Advances</i> , 2014, 4, 20393-20397.	3.6	9
96	Half-Heusler phase related structural perturbations near stoichiometric composition FeZnSb. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1159-1164.	2.9	8
97	High- T_C Ferromagnetic Semiconductor-Like Behavior and Unusual Electrical Properties in Compounds with a $2\text{Å} \times 2\text{Å}$ Superstructure of the Half-Heusler Phase. <i>Chemistry - A European Journal</i> , 2012, 18, 2536-2542.	3.3	8
98	A surfactant free preparation of ultradispersed surface-clean Pt catalyst with highly stable electrocatalytic performance. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 113, 61-66.	4.0	8
99	Complex Alloys Containing Double-Mackay Clusters and (Sb ₁₄ Zn ₁₇) ₂₄ Snub Cubes Filled with Highly Disordered Zinc Aggregates: Synthesis, Structures, and Physical Properties of Ruthenium Zinc Antimonides. <i>Inorganic Chemistry</i> , 2010, 49, 10788-10797.	4.0	7
100	N-B-F Tridoped 3D Hierarchical Porous Graphitized Carbon Derived from Chitosan for High Performance Supercapacitors. <i>Science of Advanced Materials</i> , 2019, 11, 418-424.	0.7	7
101	Boosting Oxygen Reduction Catalysis Through Electronic Reconfiguration of Fe-N-C Induced by P Doping. <i>Electrocatalysis</i> , 2021, 12, 747-758.	3.0	6
102	Fast and extensive intercalation chemistry in Wadsley-Roth phase based high-capacity electrodes. <i>Journal of Energy Chemistry</i> , 2022, 69, 601-611.	12.9	6
103	Interpenetrating icosahedra chains based zinc-rich ternary phases Ru _{4.0} Sn _{2.9} Zn _{11.6} and Ru _{3.0} Sb _{0.97} Zn _{11.0} : synthesis, structures and physical properties. <i>Dalton Transactions</i> , 2010, 39, 8331.	3.3	4
104	Facile Synthesis of SnNb ₂ O ₆ @C Composite with Ultrathin Carbon Layer as Anode Materials for High-Performance Sodium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	2
105	Preparation and Electrochemical Performance of Co Doped P3-K _x MnO ₂ . <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1528-1536.	0.5	0
106	High-Quality N-Doped Graphene with Controllable Nitrogen Bonding Configurations Derived from Ionic Liquids. <i>Chemistry - an Asian Journal</i> , 0, , .	3.3	0