

Yongqi Zhang

List of Publications by Year in descending order

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10,937
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30068
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all docs

85
docs citations

85
times ranked

12222
citing authors

#	ARTICLE	IF	CITATIONS
1	PxSy nanoparticles encapsulated in graphene as highly reversible cathode for sodium ion batteries. Chinese Chemical Letters, 2023, 34, 107216.	9.0	2
2	Multifunctional Hyphae Carbon Powering Lithium–Sulfur Batteries. Advanced Materials, 2022, 34, e2107415.	21.0	81
3	Co-construction of advanced sulfur host by implanting titanium carbide into Aspergillus niger spore carbon. Chinese Chemical Letters, 2022, 33, 3981-3986.	9.0	9
4	A review of self-healing electrolyte and their applications in flexible/stretchable energy storage devices. Electrochimica Acta, 2022, 404, 139730.	5.2	21
5	A facile, scalable, high stability Lithium metal anode. SusMat, 2022, 2, 104-112.	14.9	50
6	Integrating a 3D porous carbon fiber network containing cobalt with artificial solid electrolyte interphase to consummate advanced electrodes for lithium–sulfur batteries. Materials Today Energy, 2022, 24, 100930.	4.7	6
7	Employing Ni-Embedded Porous Graphitic Carbon Fibers for High-Efficiency Lithium–Sulfur Batteries. ACS Applied Materials & Interfaces, 2022, 14, 10457-10466.	8.0	82
8	LiBr–LiF–Rich Solid–Electrolyte Interface Layer on Lithiophilic 3D Framework for Enhanced Lithium Metal Anode. Small Structures, 2022, 3, .	12.0	20
9	Space-confined engineering boosted high-performance of ultrafine nickel selenide nanocomposites for sodium-ion capacitors. Materials Today Sustainability, 2022, 18, 100151.	4.1	8
10	Facile Lithiophilic 3D Copper Current Collector for Stable Li Metal Anode. Journal of Electronic Materials, 2022, 51, 4248-4256.	2.2	4
11	The Development Trend of Graphene Derivatives. Journal of Electronic Materials, 2022, 51, 4107-4114.	2.2	58
12	Recent Advances in Carbon Anodes for Sodium–Ion Batteries. Chemical Record, 2022, 22, .	5.8	53
13	POSS hybrid poly(ionic liquid) ionogel solid electrolyte for flexible lithium batteries. Journal of Power Sources, 2022, 542, 231766.	7.8	21
14	Multi-dimensional graded electrodes with enhanced capacitance and superior cyclic stability. Journal of Power Sources, 2021, 481, 228911.	7.8	10
15	Morphology and Crystal Plane Effects of Ceria Nanocrystals for Selective Catalytic Reduction of NO with NH ₃ . Journal of Electronic Materials, 2021, 50, 5013.	2.2	1
16	Highly Conductive, Flexible, and Nonflammable Double-Network Poly(ionic liquid)-Based Ionogel Electrolyte for Flexible Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 25410-25420.	8.0	41
17	Composite Separators for Robust High Rate Lithium Ion Batteries. Advanced Functional Materials, 2021, 31, 2101420.	14.9	87
18	Understanding the Synergistic Effects of Cobalt Single Atoms and Small Nanoparticles: Enhancing Oxygen Reduction Reaction Catalytic Activity and Stability for Zinc–Air Batteries. Advanced Functional Materials, 2021, 31, 2104735.	14.9	123

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19	A Brief Review on Solid Electrolyte Interphase Composition Characterization Technology for Lithium Metal Batteries: Challenges and Perspectives. Journal of Physical Chemistry C, 2021, 125, 19060-19080.	3.1	153
20	Confined Polysulfides in N-Doped 3D-CNTs Network for High Performance Lithium-Sulfur Batteries. Materials, 2021, 14, 6131.	2.9	7
21	Atomically Dispersed Co ₂ N ₆ and Fe ₄ N ₄ Costructures Boost Oxygen Reduction Reaction in Both Alkaline and Acidic Media. Advanced Materials, 2021, 33, e2104718.	21.0	218
22	Titanium niobium oxides (TiNb ₂ O ₇): Design, fabrication and application in energy storage devices. Sustainable Materials and Technologies, 2021, 30, e00357.	3.3	14
23	Scalable CNTs/NiCoSe ₂ Hybrid Films for Flexible All-Solid-State Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2021, 13, 53868-53876.	8.0	26
24	Exceptional performance of hierarchical Ni ₂ Fe oxyhydroxide@NiFe alloy nanowire array electrocatalysts for large current density water splitting. Energy and Environmental Science, 2020, 13, 86-95.	30.8	698
25	Generic synthesis of bimetallic nitride nanopore arrays as efficient electrocatalysts for hydrogen evolution reaction. Electrochimica Acta, 2020, 362, 137222.	5.2	17
26	Fluorine-Induced Dual Defects in Cobalt Phosphide Nanosheets Enhance Hydrogen Evolution Reaction Activity. , 2020, 2, 736-743.		81
27	Metal-Organic-Framework-Derived N-, P-, and O-Codoped Nickel/Carbon Composites Homogeneously Decorated on Reduced Graphene Oxide for Energy Storage. ACS Applied Nano Materials, 2020, 3, 5625-5636.	5.0	33
28	Metal-organic framework derived porous Co ₃ O ₄ with controllable interior structure for highly efficient CO oxidation. Materials Letters, 2020, 276, 128172.	2.6	5
29	Nickel incorporated Co ₉ S ₈ nanosheet arrays on carbon cloth boosting overall urea electrolysis. Electrochimica Acta, 2020, 338, 135883.	5.2	61
30	Enhancing bifunctionality of CoN nanowires by Mn doping for long-lasting Zn-air batteries. Science China Chemistry, 2020, 63, 890-896.	8.2	41
31	Combining Co ₃ S ₄ and Ni:Co ₃ S ₄ nanowires as efficient catalysts for overall water splitting: an experimental and theoretical study. Nanoscale, 2019, 11, 2202-2210.	5.6	79
32	High-Index-Faceted Ni ₃ S ₂ Branch Arrays as Bifunctional Electrocatalysts for Efficient Water Splitting. Nano-Micro Letters, 2019, 11, 12.	27.0	81
33	Prereduction of Metal Oxides via Carbon Plasma Treatment for Efficient and Stable Electrocatalytic Hydrogen Evolution. Small, 2018, 14, e1800340.	10.0	39
34	A brief review on plasma for synthesis and processing of electrode materials. Materials Today Nano, 2018, 3, 28-47.	4.6	59
35	Yin-Yang Harmony: Metal and Nonmetal Dual-Doping Boosts Electrocatalytic Activity for Alkaline Hydrogen Evolution. ACS Energy Letters, 2018, 3, 2750-2756.	17.4	154
36	Magnetic-field-induced rapid synthesis of defect-enriched Ni-Co nanowire membrane as highly efficient hydrogen evolution electrocatalyst. Nano Energy, 2018, 51, 349-357.	16.0	72

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37	Ultrafine Metal Nanoparticles/N-Doped Porous Carbon Hybrids Coated on Carbon Fibers as Flexible and Binder-Free Water Splitting Catalysts. <i>Advanced Energy Materials</i> , 2017, 7, 1700220.	19.5	156
38	Ultrathin MoSe ₂ @N-doped carbon composite nanospheres for stable Na-ion storage. <i>Nanotechnology</i> , 2017, 28, 42LT01.	2.6	55
39	Nitrogen-Plasma-Activated Hierarchical Nickel Nitride Nanocorals for Energy Applications. <i>Small</i> , 2017, 13, 1604265.	10.0	62
40	Plasma for Rapid Conversion Reactions and Surface Modification of Electrode Materials. <i>Small Methods</i> , 2017, 1, 1700164.	8.6	60
41	Ultrathin CNTs@FeOOH nanoflake core/shell networks as efficient electrocatalysts for the oxygen evolution reaction. <i>Materials Chemistry Frontiers</i> , 2017, 1, 709-715.	5.9	62
42	Rapid Synthesis of Cobalt Nitride Nanowires: Highly Efficient and Low-Cost Catalysts for Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8670-8674.	13.8	624
43	A High-Energy Lithium-Ion Capacitor by Integration of a 3D Interconnected Titanium Carbide Nanoparticle Chain Anode with a Pyridine-Derived Porous Nitrogen-Doped Carbon Cathode. <i>Advanced Functional Materials</i> , 2016, 26, 3082-3093.	14.9	330
44	3D Porous Hierarchical Nickel-Molybdenum Nitrides Synthesized by RF Plasma as Highly Active and Stable Hydrogen-Evolution-Reaction Electrocatalysts. <i>Advanced Energy Materials</i> , 2016, 6, 1600221.	19.5	464
45	Generic Synthesis of Carbon Nanotube Branches on Metal Oxide Arrays Exhibiting Stable High-Rate and Long-Cycle Sodium-Ion Storage. <i>Small</i> , 2016, 12, 3048-3058.	10.0	440
46	Integrated Photo-Supercapacitor Based on PEDOT Modified Printable Perovskite Solar Cell. <i>Advanced Materials Technologies</i> , 2016, 1, 1600074.	5.8	110
47	Rapid Synthesis of Cobalt Nitride Nanowires: Highly Efficient and Low-Cost Catalysts for Oxygen Evolution. <i>Angewandte Chemie</i> , 2016, 128, 8812-8816.	2.0	132
48	Ultrafast-Charging Supercapacitors Based on Corn-Like Titanium Nitride Nanostructures. <i>Advanced Science</i> , 2016, 3, 1500299.	11.2	163
49	Perovskite solar cell powered electrochromic batteries for smart windows. <i>Materials Horizons</i> , 2016, 3, 588-595.	12.2	148
50	Atomic Layer Deposition of Amorphous TiO ₂ on Carbon Nanotube Networks and Their Superior Li and Na Ion Storage Properties. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600375.	3.7	75
51	Plasma surface functionalization induces nanostructuring and nitrogen-doping in carbon cloth with enhanced energy storage performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17801-17808.	10.3	79
52	Multiple electrical breakdowns and electrical annealing using high current approximating breakdown current of silver nanowire network. <i>Nanotechnology</i> , 2016, 27, 025703.	2.6	28
53	Green synthesis of vertical graphene nanosheets and their application in high-performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 23968-23973.	3.6	39
54	Atomic-layer-deposited iron oxide on arrays of metal/carbon spheres and their application for electrocatalysis. <i>Nano Energy</i> , 2016, 20, 244-253.	16.0	62

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55	Efficient oxygen reduction reaction using mesoporous Ni-doped Co_3O_4 nanowire array electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18372-18379.	10.3	54
56	Tubular TiC fibre nanostructures as supercapacitor electrode materials with stable cycling life and wide-temperature performance. <i>Energy and Environmental Science</i> , 2015, 8, 1559-1568.	30.8	210
57	Novel Metal@Carbon Spheres Core-Shell Arrays by Controlled Self-Assembly of Carbon Nanospheres: A Stable and Flexible Supercapacitor Electrode. <i>Advanced Energy Materials</i> , 2015, 5, 1401709.	19.5	139
58	Three-dimensional graphene and their integrated electrodes. <i>Nano Today</i> , 2014, 9, 785-807.	11.9	251
59	Synthesis of porous Co_3O_4 nanoflake array and its temperature behavior as pseudo-capacitor electrode. <i>Journal of Power Sources</i> , 2014, 256, 200-205.	7.8	108
60	Solution synthesis of metal oxides for electrochemical energy storage applications. <i>Nanoscale</i> , 2014, 6, 5008-5048.	5.6	363
61	One-dimension MnCo_2O_4 nanowire arrays for electrochemical energy storage. <i>Electrochimica Acta</i> , 2014, 116, 467-474.	5.2	259
62	Oxide Nanostructures Hyperbranched with Thin and Hollow Metal Shells for High-Performance Nanostructured Battery Electrodes. <i>Small</i> , 2014, 10, 2419-2428.	10.0	37
63	Spinel Manganese-Nickel-Cobalt Ternary Oxide Nanowire Array for High-Performance Electrochemical Capacitor Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18040-18047.	8.0	172
64	Controllable Growth of Conducting Polymers Shell for Constructing High-Quality Organic/Inorganic Core/Shell Nanostructures and Their Optical-Electrochemical Properties. <i>Nano Letters</i> , 2013, 13, 4562-4568.	9.1	197
65	Combustion synthesis and electrochemical performance of $\text{Li}[\text{Li}_{0.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}]\text{O}_2$ with improved rate capability. <i>Journal of Power Sources</i> , 2013, 228, 14-23.	7.8	106
66	Self-assembled porous NiCo_2O_4 hetero-structure array for electrochemical capacitor. <i>Journal of Power Sources</i> , 2013, 239, 157-163.	7.8	233
67	Enhanced cycling stability of $\text{Li}[\text{Li}_{0.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}]\text{O}_2$ by surface modification of MgO with melting impregnation method. <i>Electrochimica Acta</i> , 2013, 88, 671-679.	5.2	255
68	Enhanced electrochemical performance of LiF-modified $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ cathode materials for Li-ion batteries. <i>Journal of Power Sources</i> , 2013, 225, 338-346.	7.8	143
69	Preparation and characterization of macroporous $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ cathode material for lithium-ion batteries via aerogel template. <i>Journal of Power Sources</i> , 2013, 240, 140-148.	7.8	76
70	Fabrication of metal oxide nanobranches on atomic-layer-deposited TiO_2 nanotube arrays and their application in energy storage. <i>Nanoscale</i> , 2013, 5, 6040.	5.6	79
71	Hierarchical $\text{Fe}_2\text{O}_3@\text{Co}_3\text{O}_4$ nanowire array anode for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 240, 344-350.	7.8	91
72	Cobalt nanomountain array supported silicon film anode for high-performance lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 88, 664-670.	5.2	42

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73	Synthesis and electrochemical performance of $\text{Li}_{1.13}\text{Mn}_{0.504}\text{Ni}_{0.243}\text{Co}_{0.122}\text{O}_2$ cathode materials for lithium ion batteries via freeze drying. Journal of Power Sources, 2013, 221, 300-307.	7.8	92
74	Integrated photoelectrochemical energy storage: solar hydrogen generation and supercapacitor. Scientific Reports, 2012, 2, 981.	3.3	85
75	Porous Hydroxide Nanosheets on Preformed Nanowires by Electrodeposition: Branched Nanoarrays for Electrochemical Energy Storage. Chemistry of Materials, 2012, 24, 3793-3799.	6.7	201
76	Hydrothermal synthesized porous $\text{Co}(\text{OH})_2$ nanoflake film for supercapacitor application. Science Bulletin, 2012, 57, 4215-4219.	1.7	34
77	High-Quality Metal Oxide Core/Shell Nanowire Arrays on Conductive Substrates for Electrochemical Energy Storage. ACS Nano, 2012, 6, 5531-5538.	14.6	972
78	Structure and electrochemical performance of CaF_2 coated $\text{LiMn}_{1/3}\text{Ni}_{1/3}\text{Co}_{1/3}\text{O}_2$ cathode material for Li-ion batteries. Electrochimica Acta, 2012, 83, 105-112.	5.2	92
79	Freestanding Co_3O_4 nanowire array for high performance supercapacitors. RSC Advances, 2012, 2, 1835.	3.6	414
80	Silicon/graphene-sheet hybrid film as anode for lithium ion batteries. Electrochemistry Communications, 2012, 23, 17-20.	4.7	65
81	Effect of carbon coating on electrochemical performance of $\text{Li}_{1.048}\text{Mn}_{0.381}\text{Ni}_{0.286}\text{Co}_{0.286}\text{O}_2$ cathode material for lithium-ion batteries. Electrochimica Acta, 2012, 63, 112-117.	5.2	94
82	Self-assembled synthesis of hierarchically porous NiO film and its application for electrochemical capacitors. Journal of Power Sources, 2012, 199, 413-417.	7.8	157
83	Three-dimensional porous nano-Ni supported silicon composite film for high-performance lithium-ion batteries. Journal of Power Sources, 2012, 213, 106-111.	7.8	88
84	Three-Dimensional Porous Nano-Ni/ $\text{Co}(\text{OH})_2$ Nanoflake Composite Film: A Pseudocapacitive Material with Superior Performance. Journal of Physical Chemistry C, 2011, 115, 22662-22668.	3.1	223