

# Yang Zhao

## List of Publications by Year in descending order

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106  
papers

10,632  
citations

38742

50  
h-index

30922

102  
g-index

107  
all docs

107  
docs citations

107  
times ranked

13462  
citing authors

#	ARTICLE	IF	CITATIONS
1	Injectable Fiber Electronics for Tumor Treatment. <i>Advanced Fiber Materials</i> , 2022, 4, 246-255.	16.1	21
2	High Efficiency and Stable $\text{Li}^+\text{CO}_2$ Battery Enabled by Carbon Nanotube/Carbon Nitride Heterostructured Photocathode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	51
3	Injectable fiber batteries for all-region power supply <i>in vivo</i> . <i>Journal of Materials Chemistry A</i> , 2021, 9, 1463-1470.	10.3	31
4	Deep Non-Negative Matrix Factorization Architecture Based on Underlying Basis Images Learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, 43, 1897-1913.	13.9	42
5	Progressive Kernel Pruning Based on the Information Mapping Sparse Index for CNN Compression. <i>IEEE Access</i> , 2021, 9, 10974-10987.	4.2	7
6	On-demand field shaping for enhanced magnetic resonance imaging using an ultrathin reconfigurable metasurface. <i>View</i> , 2021, 2, 20200099.	5.3	13
7	Ultra-high-frequency radio-frequency acoustic molecular imaging with saline nanodroplets in living subjects. <i>Nature Nanotechnology</i> , 2021, 16, 717-724.	31.5	15
8	Lithium Metal Anodes Working at $60\text{Ah}\cdot\text{cm}^{-2}$ and $60\text{Ah}\cdot\text{cm}^{-2}$ through Nanoscale Lithium Adsorbing. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17419-17425.	13.8	39
9	Nonlinear loose coupled non-negative matrix factorization for low-resolution image recognition. <i>Neurocomputing</i> , 2021, 443, 183-198.	5.9	5
10	Quantifying molecular- to cellular-level forces in living cells. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 483001.	2.8	5
11	Robust self-gated-carriers enabling highly sensitive wearable temperature sensors. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	31
12	A wearable metasurface for high efficiency, free-positioning omnidirectional wireless power transfer. <i>New Journal of Physics</i> , 2021, 23, 125003.	2.9	6
13	Electrolyte Dynamics Engineering for Flexible Fiber-Shaped Aqueous Zinc-Ion Battery with Ultralong Stability. <i>Nano Letters</i> , 2021, 21, 9651-9660.	9.1	77
14	Gradually Crosslinking Carbon Nanotube Array in Mimicking the Beak of Giant Squid for Compression-Sensing Supercapacitor. <i>Advanced Functional Materials</i> , 2020, 30, 1902971.	14.9	18
15	Making Fiber-Shaped Ni//Bi Battery Simultaneously with High Energy Density, Power Density, and Safety. <i>Advanced Functional Materials</i> , 2020, 30, 1905971.	14.9	40
16	$\text{Li}^+\text{CO}_2$ Batteries Efficiently Working at Ultra-Low Temperatures. <i>Advanced Functional Materials</i> , 2020, 30, 2001619.	14.9	61
17	A Sodiophilic Interphase-Mediated, Dendrite-Free Anode with Ultrahigh Specific Capacity for Sodium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17054-17060.	13.8	119
18	Optical force microscopy: combining light with atomic force microscopy for nanomaterial identification. <i>Nanophotonics</i> , 2019, 8, 1659-1671.	6.0	3

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19	Multi-layer radial basis function neural network based on multi-scale kernel learning. <i>Applied Soft Computing Journal</i> , 2019, 82, 105541.	7.2	18
20	Miniature gold nanorods for photoacoustic molecular imaging in the second near-infrared optical window. <i>Nature Nanotechnology</i> , 2019, 14, 465-472.	31.5	349
21	In Situ Intercalation of Bismuth into 3D Reduced Graphene Oxide Scaffolds for High Capacity and Long Cycle-Life Energy Storage. <i>Small</i> , 2019, 15, e1905903.	10.0	11
22	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2437-2442.	13.8	111
23	Molecular Layer Deposition for Energy Conversion and Storage. <i>ACS Energy Letters</i> , 2018, 3, 899-914.	17.4	123
24	High Capacity, Dendrite-Free Growth, and Minimum Volume Change Na Metal Anode. <i>Small</i> , 2018, 14, e1703717.	10.0	104
25	Robust Metallic Lithium Anode Protection by the Molecular-Layer-Deposition Technique. <i>Small Methods</i> , 2018, 2, 1700417.	8.6	84
26	Sticky-note supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3355-3360.	10.3	28
27	Aligning the binder effect on sodium-air batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1473-1484.	10.3	21
28	Boosting the performance of lithium batteries with solid-liquid hybrid electrolytes: Interfacial properties and effects of liquid electrolytes. <i>Nano Energy</i> , 2018, 48, 35-43.	16.0	143
29	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1654-1661.	8.0	85
30	Gel Polymer Electrolytes for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1702184.	19.5	674
31	Carbon paper interlayers: A universal and effective approach for highly stable Li metal anodes. <i>Nano Energy</i> , 2018, 43, 368-375.	16.0	117
32	On the Cycling Performance of Na <sub>2</sub> O Cells: Revealing the Impact of the Superoxide Crossover toward the Metallic Na Electrode. <i>Advanced Functional Materials</i> , 2018, 28, 1801904.	14.9	37
33	Response to "Comment on "Enantioselective Optical Trapping of Chiral Nanoparticles with Plasmonic Tweezers": <i>ACS Photonics</i> , 2018, 5, 2535-2536.	6.6	5
34	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31240-31248.	8.0	207
35	Superior performance of ordered macroporous TiNb <sub>2</sub> O <sub>7</sub> anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. <i>Nano Energy</i> , 2017, 34, 15-25.	16.0	351
36	Decoupling atomic-layer-deposition ultrafine RuO <sub>2</sub> for high-efficiency and ultralong-life Li-O <sub>2</sub> batteries. <i>Nano Energy</i> , 2017, 34, 399-407.	16.0	63

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37	Temperature-dependent optical properties of titanium nitride. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	83
38	Chirality detection of enantiomers using twisted optical metamaterials. <i>Nature Communications</i> , 2017, 8, 14180.	12.8	375
39	Superior Stable and Long Life Sodium Metal Anodes Achieved by Atomic Layer Deposition. <i>Advanced Materials</i> , 2017, 29, 1606663.	21.0	273
40	New insight into atomic-scale engineering of electrode surface for long-life and safe high voltage lithium ion cathodes. <i>Nano Energy</i> , 2017, 38, 19-27.	16.0	50
41	Atomic Layer Deposited Non-Noble Metal Oxide Catalyst for Sodium-Air Batteries: Tuning the Morphologies and Compositions of Discharge Product. <i>Advanced Functional Materials</i> , 2017, 27, 1606662.	14.9	34
42	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as High-Performance Cathode. <i>Advanced Materials</i> , 2017, 29, 1703764.	21.0	119
43	Superaligned Carbon Nanotubes Guide Oriented Cell Growth and Promote Electrophysiological Homogeneity for Synthetic Cardiac Tissues. <i>Advanced Materials</i> , 2017, 29, 1702713.	21.0	85
44	Nanoscope control and quantification of enantioselective optical forces. <i>Nature Nanotechnology</i> , 2017, 12, 1055-1059.	31.5	83
45	Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 31786-31793.	8.0	58
46	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. <i>CheM</i> , 2017, 3, 348-362.	11.7	194
47	Inorganic-Organic Coating via Molecular Layer Deposition Enables Long Life Sodium Metal Anode. <i>Nano Letters</i> , 2017, 17, 5653-5659.	9.1	243
48	Recent Developments and Understanding of Novel Mixed Transition-Metal Oxides as Anodes in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502175.	19.5	756
49	A fiber-shaped aqueous lithium ion battery with high power density. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9002-9008.	10.3	132
50	Carbon nanotubes cross-linked Zn <sub>2</sub> SnO <sub>4</sub> nanoparticles/graphene networks as high capacities, long life anode materials for lithium ion batteries. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 851-860.	2.9	19
51	Crumpled reduced graphene oxide conformally encapsulated hollow V <sub>2</sub> O <sub>5</sub> nano/microsphere achieving brilliant lithium storage performance. <i>Nano Energy</i> , 2016, 24, 32-44.	16.0	132
52	Supervised kernel nonnegative matrix factorization for face recognition. <i>Neurocomputing</i> , 2016, 205, 165-181.	5.9	59
53	A Self-Healing Aqueous Lithium-Ion Battery. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14384-14388.	13.8	191
54	Controlling the Polarization State of Light with Plasmonic Metal Oxide Metasurface. <i>ACS Nano</i> , 2016, 10, 9326-9333.	14.6	56

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55	Advances in Wearable Fiber-Shaped Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016, 28, 4524-4531.	21.0	201
56	Magnetic graphene@PANI@porous TiO <sub>2</sub> ternary composites for high-performance electromagnetic wave absorption. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6362-6370.	5.5	332
57	An All-Solid-State Fiber-Shaped Aluminum-Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7979-7982.	13.8	211
58	Elastic and wearable ring-type supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3217-3222.	10.3	34
59	Construction of CuS Nanoflakes Vertically Aligned on Magnetically Decorated Graphene and Their Enhanced Microwave Absorption Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5536-5546.	8.0	435
60	Enantioselective Optical Trapping of Chiral Nanoparticles with Plasmonic Tweezers. <i>ACS Photonics</i> , 2016, 3, 304-309.	6.6	144
61	Controlled synthesis of hollow Si-Ni-Sn nanoarchitected electrode for advanced lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 23260-23264.	3.6	5
62	Metal organic frameworks for energy storage and conversion. <i>Energy Storage Materials</i> , 2016, 2, 35-62.	18.0	483
63	Realizing both High Energy and High Power Densities by Twisting Three Carbon-Nanotube-Based Hybrid Fibers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11177-11182.	13.8	97
64	A Shape-Memory Supercapacitor Fiber. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15419-15423.	13.8	141
65	Preparation and application of hollow ZnFe <sub>2</sub> O <sub>4</sub> @PANI hybrids as high performance anode materials for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 107247-107253.	3.6	31
66	Aligned carbon nanotube/molybdenum disulfide hybrids for effective fibrous supercapacitors and lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17553-17557.	10.3	103
67	Oxygen-containing Functional Groups Enhancing Electrochemical Performance of Porous Reduced Graphene Oxide Cathode in Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2015, 174, 762-769.	5.2	86
68	Electrospun SnO <sub>2</sub> -ZnO nanofibers with improved electrochemical performance as anode materials for lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14338-14344.	7.1	50
69	Significant impact of 2D graphene nanosheets on large volume change tin-based anodes in lithium-ion batteries: A review. <i>Journal of Power Sources</i> , 2015, 274, 869-884.	7.8	343
70	Recent advances on optical metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 123001.	2.2	90
71	Alignment-Free Three-Dimensional Optical Metamaterials. <i>Advanced Materials</i> , 2014, 26, 1439-1445.	21.0	41
72	Optical chirality enhancement in twisted metamaterials. , 2014, , .		1

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73	Hydrothermal synthesis of flower-like Zn <sub>2</sub> SnO <sub>4</sub> composites and their performance as anode materials for lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 8021-8025.	4.8	33
74	Hollow Zn <sub>2</sub> SnO <sub>4</sub> boxes wrapped with flexible graphene as anode materials for lithium batteries. <i>Electrochimica Acta</i> , 2014, 120, 128-132.	5.2	38
75	One-pot hydrothermal synthesis of RGO/CoFe <sub>2</sub> O <sub>4</sub> composite and its excellent microwave absorption properties. <i>Materials Letters</i> , 2014, 114, 52-55.	2.6	137
76	Preparation of hollow Zn <sub>2</sub> SnO <sub>4</sub> boxes@C/graphene ternary composites with a triple buffering structure and their electrochemical performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 147, 201-208.	5.2	42
77	Hollow Zn <sub>2</sub> SnO <sub>4</sub> boxes coated with N-doped carbon for advanced lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 2275-2280.	4.8	29
78	TiO <sub>2</sub> supported on bamboo charcoal for H <sub>2</sub> O <sub>2</sub> -assisted pollutant degradation under solar light. <i>Materials Science in Semiconductor Processing</i> , 2014, 17, 124-128.	4.0	9
79	Facile synthesis and performance of polypyrrole-coated hollow Zn <sub>2</sub> SnO <sub>4</sub> boxes as anode materials for lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 2359-2364.	4.8	32
80	Preparation of BaFe <sub>12</sub> O <sub>19</sub> as anode material for lithium-ion batteries through sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 66, 238-241.	2.4	8
81	Preparation of hollow Zn <sub>2</sub> SnO <sub>4</sub> boxes for advanced lithium-ion batteries. <i>RSC Advances</i> , 2013, 3, 14480.	3.6	62
82	Facile preparation of RGO/Cu <sub>2</sub> O/Cu composite and its excellent microwave absorption properties. <i>Materials Letters</i> , 2013, 109, 112-115.	2.6	71
83	Graphene-supported Ce/SnS <sub>2</sub> Nanocomposite as Anode Material for Lithium-ion Batteries. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2190-2196.	3.8	47
84	Polyaniline(PANI) coated Zn <sub>2</sub> SnO <sub>4</sub> cube as anode materials for lithium batteries. <i>Polymer Testing</i> , 2013, 32, 1582-1587.	4.8	20
85	Supraparamagnetic quaternary nanocomposites of graphene@Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @SnO <sub>2</sub> : Synthesis and enhanced electromagnetic absorption properties. <i>Materials Letters</i> , 2013, 109, 146-150.	2.6	29
86	The study on the Li-storage performances of bamboo charcoal (BC) and BC/Li <sub>2</sub> SnO <sub>3</sub> composites. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 1243-1248.	2.9	7
87	Facile preparation, high microwave absorption and microwave absorbing mechanism of RGO@Fe <sub>3</sub> O <sub>4</sub> composites. <i>RSC Advances</i> , 2013, 3, 23638.	3.6	346
88	Botryoidally hollow Zn <sub>2</sub> SnO <sub>4</sub> boxes@graphene as anode materials for advanced lithium-ion batteries. <i>RSC Advances</i> , 2013, 3, 23489.	3.6	30
89	One-pot simplified co-precipitation synthesis of reduced graphene oxide/Fe <sub>3</sub> O <sub>4</sub> composite and its microwave electromagnetic properties. <i>Materials Letters</i> , 2013, 106, 22-25.	2.6	59
90	Carbon-doped Li <sub>2</sub> SnO <sub>3</sub> /graphene as an anode material for lithium-ion batteries. <i>Ceramics International</i> , 2013, 39, 1741-1747.	4.8	37

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91	Graphene supported poly-pyrrole(PPY)/Li <sub>2</sub> SnO <sub>3</sub> ternary composites as anode materials for lithium ion batteries. <i>Ceramics International</i> , 2013, 39, 6861-6866.	4.8	28
92	Synthesis and electrochemical characterizations of Ce doped SnS <sub>2</sub> anode materials for rechargeable lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 93, 120-130.	5.2	80
93	Tailoring the Dispersion of Plasmonic Nanorods To Realize Broadband Optical Meta-Waveplates. <i>Nano Letters</i> , 2013, 13, 1086-1091.	9.1	290
94	Preparation of Li <sub>2</sub> SnO <sub>3</sub> and its application in lithium-ion batteries. <i>Surface and Interface Analysis</i> , 2013, 45, 1297-1303.	1.8	19
95	Graphene supported Li <sub>2</sub> SnO <sub>3</sub> as anode material for lithium-ion batteries. <i>Electronic Materials Letters</i> , 2013, 9, 683-686.	2.2	19
96	Optical nanoantennas and their applications. , 2013, , .		6
97	Facile synthesis of RGO/Fe <sub>3</sub> O <sub>4</sub> /Ag composite with high microwave absorption capacity. <i>Materials Letters</i> , 2013, 111, 188-191.	2.6	49
98	An ultrathin quarter-wave nano-plate based on detuned plasmonic nanoantennas. , 2012, , .		0
99	Hydrothermal derived Li <sub>2</sub> SnO <sub>3</sub> /C composite as negative electrode materials for lithium-ion batteries. <i>Applied Surface Science</i> , 2012, 258, 6923-6929.	6.1	32
100	Synthesis and properties of Li <sub>2</sub> SnO <sub>3</sub> /polyaniline nanocomposites as negative electrode material for lithium-ion batteries. <i>Applied Surface Science</i> , 2012, 258, 9896-9901.	6.1	42
101	Synthesis and properties of carbon-doped Li <sub>2</sub> SnO <sub>3</sub> nanocomposite as cathode material for lithium-ion batteries. <i>Materials Letters</i> , 2012, 71, 66-69.	2.6	27
102	Broadband circular polarizers using plasmonic metasurfaces. , 2011, , .		1
103	Optical metasurfaces with robust angular response on flexible substrates. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	47
104	Multiband Mobility in Semiconducting Carbon Nanotubes. <i>IEEE Electron Device Letters</i> , 2009, 30, 1078-1080.	3.9	60
105	Delay-Time-Enhanced Flat-Band Photonic Crystal Waveguides with Capsule-Shaped Holes on Silicon Nanomembrane. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009, 15, 1510-1514.	2.9	3
106	Silicon nano-membranes for efficient large angle optical beam steering. , 2009, , .		0