

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	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
2	Gel Polymer Electrolytes for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1702184.	19.5	674
3	Metal organic frameworks for energy storage and conversion. <i>Energy Storage Materials</i> , 2016, 2, 35-62.	18.0	483
4	Construction of CuS Nanoflakes Vertically Aligned on Magnetically Decorated Graphene and Their Enhanced Microwave Absorption Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5536-5546.	8.0	435
5	Chirality detection of enantiomers using twisted optical metamaterials. <i>Nature Communications</i> , 2017, 8, 14180.	12.8	375
6	Superior performance of ordered macroporous TiNb ₂ O ₇ 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
7	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
8	Facile preparation, high microwave absorption and microwave absorbing mechanism of RGO-Fe ₃ O ₄ composites. <i>RSC Advances</i> , 2013, 3, 23638.	3.6	346
9	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
10	Magnetic graphene@PANI@porous TiO ₂ ternary composites for high-performance electromagnetic wave absorption. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6362-6370.	5.5	332
11	Tailoring the Dispersion of Plasmonic Nanorods To Realize Broadband Optical Meta-Waveplates. <i>Nano Letters</i> , 2013, 13, 1086-1091.	9.1	290
12	Superior Stable and Long Life Sodium Metal Anodes Achieved by Atomic Layer Deposition. <i>Advanced Materials</i> , 2017, 29, 1606663.	21.0	273
13	Inorganic-Organic Coating via Molecular Layer Deposition Enables Long Life Sodium Metal Anode. <i>Nano Letters</i> , 2017, 17, 5653-5659.	9.1	243
14	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
15	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31240-31248.	8.0	207
16	Advances in Wearable Fiber-Shaped Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016, 28, 4524-4531.	21.0	201
17	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. <i>CheM</i> , 2017, 3, 348-362.	11.7	194
18	A Self-Healing Aqueous Lithium-Ion Battery. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14384-14388.	13.8	191

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19	Enantioselective Optical Trapping of Chiral Nanoparticles with Plasmonic Tweezers. ACS Photonics, 2016, 3, 304-309.	6.6	144
20	Boosting the performance of lithium batteries with solid-liquid hybrid electrolytes: Interfacial properties and effects of liquid electrolytes. Nano Energy, 2018, 48, 35-43.	16.0	143
21	A Shape-Memory Supercapacitor Fiber. Angewandte Chemie - International Edition, 2015, 54, 15419-15423.	13.8	141
22	One-pot hydrothermal synthesis of RGO/CoFe ₂ O ₄ composite and its excellent microwave absorption properties. Materials Letters, 2014, 114, 52-55.	2.6	137
23	A fiber-shaped aqueous lithium ion battery with high power density. Journal of Materials Chemistry A, 2016, 4, 9002-9008.	10.3	132
24	Crumpled reduced graphene oxide conformally encapsulated hollow V ₂ O ₅ nano/microsphere achieving brilliant lithium storage performance. Nano Energy, 2016, 24, 32-44.	16.0	132
25	Molecular Layer Deposition for Energy Conversion and Storage. ACS Energy Letters, 2018, 3, 899-914.	17.4	123
26	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as High-Performance Cathode. Advanced Materials, 2017, 29, 1703764.	21.0	119
27	A Sodiophilic Interphase-Mediated, Dendrite-Free Anode with Ultrahigh Specific Capacity for Sodium-Metal Batteries. Angewandte Chemie - International Edition, 2019, 58, 17054-17060.	13.8	119
28	Carbon paper interlayers: A universal and effective approach for highly stable Li metal anodes. Nano Energy, 2018, 43, 368-375.	16.0	117
29	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. Angewandte Chemie - International Edition, 2019, 58, 2437-2442.	13.8	111
30	High Capacity, Dendrite-Free Growth, and Minimum Volume Change Na Metal Anode. Small, 2018, 14, e1703717.	10.0	104
31	Aligned carbon nanotube/molybdenum disulfide hybrids for effective fibrous supercapacitors and lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 17553-17557.	10.3	103
32	Realizing both High Energy and High Power Densities by Twisting Three Carbon-Nanotube-Based Hybrid Fibers. Angewandte Chemie - International Edition, 2015, 54, 11177-11182.	13.8	97
33	Recent advances on optical metasurfaces. Journal of Optics (United Kingdom), 2014, 16, 123001.	2.2	90
34	Oxygen-containing Functional Groups Enhancing Electrochemical Performance of Porous Reduced Graphene Oxide Cathode in Lithium Ion Batteries. Electrochimica Acta, 2015, 174, 762-769.	5.2	86
35	Superaligned Carbon Nanotubes Guide Oriented Cell Growth and Promote Electrophysiological Homogeneity for Synthetic Cardiac Tissues. Advanced Materials, 2017, 29, 1702713.	21.0	85
36	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 1654-1661.	8.0	85

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37	Robust Metallic Lithium Anode Protection by the Molecular Layer Deposition Technique. <i>Small Methods</i> , 2018, 2, 1700417.	8.6	84
38	Temperature-dependent optical properties of titanium nitride. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	83
39	Nanosopic control and quantification of enantioselective optical forces. <i>Nature Nanotechnology</i> , 2017, 12, 1055-1059.	31.5	83
40	Synthesis and electrochemical characterizations of Ce doped SnS ₂ anode materials for rechargeable lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 93, 120-130.	5.2	80
41	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
42	Facile preparation of RGO/Cu ₂ O/Cu composite and its excellent microwave absorption properties. <i>Materials Letters</i> , 2013, 109, 112-115.	2.6	71
43	Decoupling atomic-layer-deposition ultrafine RuO ₂ for high-efficiency and ultralong-life Li-O ₂ batteries. <i>Nano Energy</i> , 2017, 34, 399-407.	16.0	63
44	Preparation of hollow Zn ₂ SnO ₄ boxes for advanced lithium-ion batteries. <i>RSC Advances</i> , 2013, 3, 14480.	3.6	62
45	Li ⁺ Batteries Efficiently Working at Ultra-Low Temperatures. <i>Advanced Functional Materials</i> , 2020, 30, 2001619.	14.9	61
46	Multiband Mobility in Semiconducting Carbon Nanotubes. <i>IEEE Electron Device Letters</i> , 2009, 30, 1078-1080.	3.9	60
47	One-pot simplified co-precipitation synthesis of reduced graphene oxide/Fe ₃ O ₄ composite and its microwave electromagnetic properties. <i>Materials Letters</i> , 2013, 106, 22-25.	2.6	59
48	Supervised kernel nonnegative matrix factorization for face recognition. <i>Neurocomputing</i> , 2016, 205, 165-181.	5.9	59
49	Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31786-31793.	8.0	58
50	Controlling the Polarization State of Light with Plasmonic Metal Oxide Metasurface. <i>ACS Nano</i> , 2016, 10, 9326-9333.	14.6	56
51	High-Efficiency and Stable Li ⁺ Battery Enabled by Carbon Nanotube/Carbon Nitride Heterostructured Photocathode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	51
52	Electrospun SnO ₂ @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
53	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
54	Facile synthesis of RGO/Fe ₃ O ₄ /Ag composite with high microwave absorption capacity. <i>Materials Letters</i> , 2013, 111, 188-191.	2.6	49

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55	Optical metasurfaces with robust angular response on flexible substrates. Applied Physics Letters, 2011, 99, .	3.3	47
56	Graphene-supported Ce/SnS_2 Nanocomposite as Anode Material for Lithium-ion Batteries. Journal of the American Ceramic Society, 2013, 96, 2190-2196.	3.8	47
57	Synthesis and properties of Li_2SnO_3 /polyaniline nanocomposites as negative electrode material for lithium-ion batteries. Applied Surface Science, 2012, 258, 9896-9901.	6.1	42
58	Preparation of hollow Zn_2SnO_4 boxes@C/graphene ternary composites with a triple buffering structure and their electrochemical performance for lithium-ion batteries. Electrochimica Acta, 2014, 147, 201-208.	5.2	42
59	Deep Non-Negative Matrix Factorization Architecture Based on Underlying Basis Images Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1897-1913.	13.9	42
60	Alignment-free Three-dimensional Optical Metamaterials. Advanced Materials, 2014, 26, 1439-1445.	21.0	41
61	Making Fiber-shaped Ni//Bi Battery Simultaneously with High Energy Density, Power Density, and Safety. Advanced Functional Materials, 2020, 30, 1905971.	14.9	40
62	Lithium-metal Anodes Working at 60°C and 60°C through Nanoscale Lithium-ion Adsorbing. Angewandte Chemie - International Edition, 2021, 60, 17419-17425.	13.8	39
63	Hollow Zn_2SnO_4 boxes wrapped with flexible graphene as anode materials for lithium batteries. Electrochimica Acta, 2014, 120, 128-132.	5.2	38
64	Carbon-doped Li_2SnO_3 /graphene as an anode material for lithium-ion batteries. Ceramics International, 2013, 39, 1741-1747.	4.8	37
65	On the Cycling Performance of NaO_2 Cells: Revealing the Impact of the Superoxide Crossover toward the Metallic Na Electrode. Advanced Functional Materials, 2018, 28, 1801904.	14.9	37
66	Elastic and wearable ring-type supercapacitors. Journal of Materials Chemistry A, 2016, 4, 3217-3222.	10.3	34
67	Atomic Layer Deposited Non-noble Metal Oxide Catalyst for Sodium-air Batteries: Tuning the Morphologies and Compositions of Discharge Product. Advanced Functional Materials, 2017, 27, 1606662.	14.9	34
68	Hydrothermal synthesis of flower-like Zn_2SnO_4 composites and their performance as anode materials for lithium-ion batteries. Ceramics International, 2014, 40, 8021-8025.	4.8	33
69	Hydrothermal derived Li_2SnO_3 /C composite as negative electrode materials for lithium-ion batteries. Applied Surface Science, 2012, 258, 6923-6929.	6.1	32
70	Facile synthesis and performance of polypyrrole-coated hollow Zn_2SnO_4 boxes as anode materials for lithium-ion batteries. Ceramics International, 2014, 40, 2359-2364.	4.8	32
71	Preparation and application of hollow ZnFe_2O_4 @PANI hybrids as high performance anode materials for lithium-ion batteries. RSC Advances, 2015, 5, 107247-107253.	3.6	31
72	Injectable fiber batteries for all-region power supply <i>in vivo</i> . Journal of Materials Chemistry A, 2021, 9, 1463-1470.	10.3	31

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73	Robust self-gated-carriers enabling highly sensitive wearable temperature sensors. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	31
74	Botryoidalis hollow Zn ₂ SnO ₄ boxes@graphene as anode materials for advanced lithium-ion batteries. <i>RSC Advances</i> , 2013, 3, 23489.	3.6	30
75	Supraparamagnetic quaternary nanocomposites of graphene@Fe ₃ O ₄ @SiO ₂ @SnO ₂ : Synthesis and enhanced electromagnetic absorption properties. <i>Materials Letters</i> , 2013, 109, 146-150.	2.6	29
76	Hollow Zn ₂ SnO ₄ boxes coated with N-doped carbon for advanced lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 2275-2280.	4.8	29
77	Graphene supported poly-pyrrole(PPY)/Li ₂ SnO ₃ ternary composites as anode materials for lithium ion batteries. <i>Ceramics International</i> , 2013, 39, 6861-6866.	4.8	28
78	Sticky-note supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3355-3360.	10.3	28
79	Synthesis and properties of carbon-doped Li ₂ SnO ₃ nanocomposite as cathode material for lithium-ion batteries. <i>Materials Letters</i> , 2012, 71, 66-69.	2.6	27
80	Aligning the binder effect on sodium-air batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1473-1484.	10.3	21
81	Injectable Fiber Electronics for Tumor Treatment. <i>Advanced Fiber Materials</i> , 2022, 4, 246-255.	16.1	21
82	Polyaniline(PANI) coated Zn ₂ SnO ₄ cube as anode materials for lithium batteries. <i>Polymer Testing</i> , 2013, 32, 1582-1587.	4.8	20
83	Preparation of Li ₂ SnO ₃ and its application in lithium-ion batteries. <i>Surface and Interface Analysis</i> , 2013, 45, 1297-1303.	1.8	19
84	Graphene supported Li ₂ SnO ₃ as anode material for lithium-ion batteries. <i>Electronic Materials Letters</i> , 2013, 9, 683-686.	2.2	19
85	Carbon nanotubes cross-linked Zn ₂ SnO ₄ 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
86	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
87	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
88	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
89	On-demand field shaping for enhanced magnetic resonance imaging using an ultrathin reconfigurable metasurface. <i>View</i> , 2021, 2, 20200099.	5.3	13
90	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

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91	TiO ₂ supported on bamboo charcoal for H ₂ O ₂ -assisted pollutant degradation under solar light. <i>Materials Science in Semiconductor Processing</i> , 2014, 17, 124-128.	4.0	9
92	Preparation of BaFe ₁₂ O ₁₉ 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
93	The study on the Li-storage performances of bamboo charcoal (BC) and BC/Li ₂ SnO ₃ composites. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 1243-1248.	2.9	7
94	Progressive Kernel Pruning Based on the Information Mapping Sparse Index for CNN Compression. <i>IEEE Access</i> , 2021, 9, 10974-10987.	4.2	7
95	Optical nanoantennas and their applications. , 2013, , .		6
96	A wearable metasurface for high efficiency, free-positioning omnidirectional wireless power transfer. <i>New Journal of Physics</i> , 2021, 23, 125003.	2.9	6
97	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
98	Response to "Comment on "Enantioselective Optical Trapping of Chiral Nanoparticles with Plasmonic Tweezers": <i>ACS Photonics</i> , 2018, 5, 2535-2536.	6.6	5
99	Nonlinear loose coupled non-negative matrix factorization for low-resolution image recognition. <i>Neurocomputing</i> , 2021, 443, 183-198.	5.9	5
100	Quantifying molecular- to cellular-level forces in living cells. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 483001.	2.8	5
101	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
102	Optical force microscopy: combining light with atomic force microscopy for nanomaterial identification. <i>Nanophotonics</i> , 2019, 8, 1659-1671.	6.0	3
103	Broadband circular polarizers using plasmonic metasurfaces. , 2011, , .		1
104	Optical chirality enhancement in twisted metamaterials. , 2014, , .		1
105	Silicon nano-membranes for efficient large angle optical beam steering. , 2009, , .		0
106	An ultrathin quarter-wave nano-plate based on detuned plasmonic nanoantennas. , 2012, , .		0