Ming Zhang

List of Publications by Year
in descending order

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113 papers	7,143 citations	57758 44 h-index	58581 82 g-index
114 all docs	114 docs citations	114 times ranked	8883 citing authors

#	Article	IF	Citations
1	Magnetite/graphene composites: microwave irradiation synthesis and enhanced cycling and rate performances for lithium ion batteries. Journal of Materials Chemistry, 2010, 20, 5538.	6.7	284
2	Flexible ReS2 nanosheets/N-doped carbon nanofibers-based paper as a universal anode for alkali (Li, Na,) Tj ETQq0 0 0 rgBT /Overlock 10	16.0	280
3	Pipe-Wire TiO₂â€“Sn@Carbon Nanofibers Paper Anodes for Lithium and Sodium Ion Batteries. Nano Letters, 2017, 17, 3830-3836.	9.1	272
4	Hierarchical mushroom-like CoNi2S4 arrays as a novel electrode material for supercapacitors. Nano Energy, 2014, 3, 36-45.	16.0	265
5	One-Step Synthesis of Hierarchical SnO₂ Hollow Nanostructures via Self-Assembly for High Power Lithium Ion Batteries. Journal of Physical Chemistry C, 2010, 114, 8084-8088.	3.1	258
6	Facile synthesis and excellent electrochemical properties of CoMoO4 nanoplate arrays as supercapacitors. Journal of Materials Chemistry A, 2013, 1, 7247.	10.3	246
7	Fast synthesis of SnO2/graphene composites by reducing graphene oxide with stannous ions. Journal of Materials Chemistry, 2011, 21, 1673-1676.	6.7	201
8	Leafâ€Like V₂O₅ Nanosheets Fabricated by a Facile Green Approach as High Energy Cathode Material for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2013, 3, 1171-1175.	19.5	200
9	A novel amperometric biosensor based on NiO hollow nanospheres for biosensing glucose. Talanta, 2008, 77, 455-459.	5.5	176
10	A Pyrazineâ€Based Polymer for Fastâ€Charge Batteries. Angewandte Chemie - International Edition, 2019, 58, 17820-17826.	13.8	173
11	The structure control of ZnS/graphene composites and their excellent properties for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 13384-13389.	10.3	172
12	Sn-Doped V₂O₅ Film with Enhanced Lithium-Ion Storage Performance. Journal of Physical Chemistry C, 2013, 117, 23507-23514.	3.1	170
13	Sandwichâ€like MoS₂@SnO₂@C with High Capacity and Stability for Sodium/Potassium Ion Batteries. Small, 2018, 14, e1703818.	10.0	158
14	CoOâ€“carbon nanofiber networks prepared by electrospinning as binder-free anode materials for lithium-ion batteries with enhanced properties. Nanoscale, 2013, 5, 12342.	5.6	149
15	In situ synthesis of SnO2/graphene nanocomposite and their application as anode material for lithium ion battery. Materials Letters, 2010, 64, 2076-2079.	2.6	146
16	Î²-Cobalt sulfide nanoparticles decorated graphene composite electrodes for high capacity and power supercapacitors. Nanoscale, 2012, 4, 7810.	5.6	145
17	Facile solvothermal synthesis of mesoporous Cu2SnS3 spheres and their application in lithium-ion batteries. Nanoscale, 2011, 3, 3646.	5.6	135
18	Synthesis of Bacteria Promoted Reduced Graphene Oxide-Nickel Sulfide Networks for Advanced Supercapacitors. ACS Applied Materials & Interfaces, 2013, 5, 7335-7340.	8.0	130

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19	A green and fast strategy for the scalable synthesis of Fe2O3/graphene with significantly enhanced Li-ion storage properties. Journal of Materials Chemistry, 2012, 22, 3868.	6.7	125
20	Flexible CoOâ€“grapheneâ€“carbon nanofiber mats as binder-free anodes for lithium-ion batteries with superior rate capacity and cyclic stability. Journal of Materials Chemistry A, 2014, 2, 5890-5897.	10.3	121
21	Grapheneâ€Encapsulated FeS₂ in Carbon Fibers as High Reversible Anodes for Na⁺/K⁺ Batteries in a Wide Temperature Range. Small, 2019, 15, e1804740.	10.0	115
22	Encapsulation of MoSe₂ in carbon fibers as anodes for potassium ion batteries and nonaqueous batteryâ€“supercapacitor hybrid devices. Nanoscale, 2019, 11, 13511-13520.	5.6	109
23	Flexible morphology-controlled synthesis of mesoporous hierarchical Î±-Fe2O3 architectures and their gas-sensing properties. CrystEngComm, 2011, 13, 806-812.	2.6	100
24	Graphene oxide oxidizes stannous ions to synthesize tin sulfideâ€“graphene nanocomposites with small crystal size for high performance lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 23091.	6.7	97
25	p-Type SnO thin layers on n-type SnS₂ nanosheets with enriched surface defects and embedded charge transfer for lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 512-518.	10.3	97
26	Î±-Fe2O3 nanowall arrays: hydrothermal preparation, growth mechanism and excellent rate performances for lithium ion batteries. Nanoscale, 2012, 4, 3422.	5.6	92
27	Superior ethanol-sensing properties based on Ni-doped SnO2 pâ€“n heterojunction hollow spheres. Sensors and Actuators B: Chemical, 2012, 166-167, 61-67.	7.8	90
28	SnO₂monolayer porous hollow spheres as a gas sensor. Nanotechnology, 2009, 20, 455503.	2.6	85
29	Three-Dimensional Coherent Titaniaâ€“Mesoporous Carbon Nanocomposite and Its Lithium-Ion Storage Properties. ACS Applied Materials & Interfaces, 2012, 4, 2985-2992.	8.0	84
30	Ternary Cu2SnS3 cabbage-like nanostructures: large-scale synthesis and their application in Li-ion batteries with superior reversible capacity. Nanoscale, 2011, 3, 4389.	5.6	83
31	Single Nozzle Electrospinning Synthesized MoO₂@C Core Shell Nanofibers with High Capacity and Longâ€Term Stability for Lithiumâ€Ion Storage. Advanced Materials Interfaces, 2017, 4, 1600816.	3.7	73
32	Super hydrophilic carbon fiber film for freestanding and flexible cathodes of zinc-ion hybrid supercapacitors. Chemical Engineering Journal, 2021, 421, 129786.	12.7	68
33	Solvent-Controlled Synthesis of NiOâ€“CoO/Carbon Fiber Nanobrushes with Different Densities and Their Excellent Properties for Lithium Ion Storage. ACS Applied Materials & Interfaces, 2015, 7, 21703-21711.	8.0	63
34	Enabling Multi-Chemisorption Sites on Carbon Nanofibers Cathodes by an In-situ Exfoliation Strategy for High-Performance Znâ€“Ion Hybrid Capacitors. Nano-Micro Letters, 2022, 14, 106.	27.0	63
35	Facile Synthesis of Spike-Piece-Structured Ni(OH)₂ Interlayer Nanoplates on Nickel Foam as Advanced Pseudocapacitive Materials for Energy Storage. ACS Applied Materials & Interfaces, 2014, 6, 5168-5174.	8.0	61
36	Enhanced conductivity and properties of SnO2-graphene-carbon nanofibers for potassium-ion batteries by graphene modification. Materials Letters, 2018, 219, 19-22.	2.6	59

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37	Facile and Green Preparation for the Formation of MoO₂-GO Composites as Anode Material for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 24890-24897.	3.1	58
38	Multi-protection from nanochannels and graphene of SnSb-grapheneâ€'carbon composites ensuring high properties for potassium-ion batteries. Solid State Ionics, 2018, 324, 267-275.	2.7	58
39	Facile synthesis of cobalt sulfide/carbon nanotube shell/core composites for high performance supercapacitors. RSC Advances, 2014, 4, 12050.	3.6	55
40	Ultrasensitive ethanol sensor based on 3D aloe-like SnO2. Sensors and Actuators B: Chemical, 2012, 166-167, 7-11.	7.8	54
41	Homogenous incorporation of SnO2 nanoparticles in carbon cryogels via the thermal decomposition of stannous sulfate and their enhanced lithium-ion intercalation properties. Nano Energy, 2013, 2, 769-778.	16.0	54
42	S-doped carbon@TiO2 to store Li+/Na+ with high capacity and long life-time. Energy Storage Materials, 2018, 13, 215-222.	18.0	52
43	Porous Co-N-C ORR catalysts of high performance synthesized with ZIF-67 templates. Materials Research Bulletin, 2019, 114, 161-169.	5.2	48
44	Improved Na+/K+ Storage Properties of ReSe2â€"Carbon Nanofibers Based on Graphene Modifications. Nano-Micro Letters, 2019, 11, 22.	27.0	46
45	Sulfur-Rich (NH₄)₂Mo₃S₁₃ as a Highly Reversible Anode for Sodium/Potassium-Ion Batteries. ACS Nano, 2020, 14, 9626-9636.	14.6	43
46	Facile preparation of porous one-dimensional Mn2O3 nanostructures and their application as anode materials for lithium-ion batteries. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 70-75.	2.7	42
47	3-D mesoporous nano/micro-structured Fe3O4/C as a superior anode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 2011, 15, 2563-2569.	2.5	42
48	Fixing graphene-Mn3O4 nanosheets on carbon cloth by a poles repel-assisted method to prepare flexible binder-free electrodes for supercapacitors. Electrochimica Acta, 2015, 180, 983-989.	5.2	42
49	Additive-free solvothermal synthesis of hierarchical flower-like LiFePO4/C mesocrystal and its electrochemical performance. RSC Advances, 2013, 3, 19366.	3.6	41
50	Electrospinning Synthesis of NiÂ°, FeÂ° Codoped Ultrafine-ZnFe2O4/C Nanofibers and Their Properties for Lithium Ion Storage. Electrochimica Acta, 2016, 194, 357-366.	5.2	41
51	Design of Flexible Films Based on Kinked Carbon Nanofibers for High Rate and Stable Potassium-Ion Storage. Nano-Micro Letters, 2022, 14, 47.	27.0	41
52	Chemical bath deposition of SnS2 nanowall arrays with improved electrochemical performance for lithium ion battery. Materials Letters, 2010, 64, 2350-2353.	2.6	40
53	Encapsulating Sn_xSb Nanoparticles in Multichannel Graphene-Carbon Fibers As Flexible Anodes to Store Lithium Ions with High Capacities. ACS Applied Materials & Interfaces, 2015, 7, 21890-21897.	8.0	40
54	Sâ€Doped Carbon Fibers Uniformly Embedded with Ultrasmall TiO₂ for Na⁺/Li⁺ Storage with High Capacity and Longâ€Time Stability. Small, 2019, 15, e1902201.	10.0	40

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55	Simple fabrication of a sensitive hydrogen peroxide biosensor using enzymes immobilized in processable polyaniline nanofibers/chitosan film. Materials Science and Engineering C, 2009, 29, 1794-1797.	7.3	38
56	A novel non-enzymatic hydrogen peroxide sensor based on Mn-nitrilotriacetate acid (Mn-NTA) nanowires. Talanta, 2010, 81, 727-731.	5.5	38
57	Morphology effect on the performances of SnO2 nanorod arrays as anodes for Li-ion batteries. Materials Letters, 2011, 65, 1154-1156.	2.6	38
58	Additive-free solvothermal synthesis and Li-ion intercalation properties ofÂdumbbell-shaped LiFePO4/C mesocrystals. Journal of Power Sources, 2013, 239, 103-110.	7.8	36
59	Co₃O₄â€“SnO₂ nanobox sensor with a PN junction and semiconductorâ€“conductor transformation for high selectivity and sensitivity detection of H₂S. CrystEngComm, 2017, 19, 5742-5748.	2.6	35
60	Three-Dimensional Self-assembled Hairball-Like VS4 as High-Capacity Anodes for Sodium-Ion Batteries. Nano-Micro Letters, 2020, 12, 39.	27.0	35
61	A Phaseâ€Separation Route to Synthesize Porous CNTs with Excellent Stability for Na ⁺ Storage. Small, 2017, 13, 1604045.	10.0	34
62	Electrocatalytic activity of horseradish peroxidase/chitosan/carbon microsphere microbiocomposites to hydrogen peroxide. Talanta, 2008, 77, 37-41.	5.5	33
63	Highly sensitive humidity sensors based on Sb-doped ZnSnO3 nanoparticles with very small sizes. CrystEngComm, 2014, 16, 2977.	2.6	33
64	Stannous ions reducing graphene oxide at room temperature to produce SnO_x-porous, carbon-nanofiber flexible mats as binder-free anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 12672-12679.	10.3	33
65	Mo2C embedded in S-doped carbon nanofibers for high-rate performance and long-life time Na-ion batteries. Solid State Ionics, 2018, 323, 151-156.	2.7	32
66	Ni3S2@S-carbon nanotubes synthesized using NiS2 as sulfur source and precursor for high performance sodium-ion half/full cells. Science China Materials, 2020, 63, 216-228.	6.3	31
67	The double effects of sulfur-doping on MoO2/C nanofibers with high properties for Na-ion batteries. Applied Surface Science, 2018, 455, 343-348.	6.1	30
68	Sn-interspersed MoS2/C nanosheets with high capacity for Na+/K+ storage. Journal of Physics and Chemistry of Solids, 2019, 126, 72-77.	4.0	30
69	ZnO-carbon nanofibers for stable, high response, and selective H₂S sensors. Nanotechnology, 2018, 29, 275501.	2.6	29
70	Probing the unexpected behavior of AuNPs migrating through nanofibers: a new strategy for the fabrication of carbon nanofiberâ€“noble metal nanocrystal hybrid nanostructures. Journal of Materials Chemistry A, 2014, 2, 11728-11741.	10.3	28
71	Flexible NiOâ€“Grapheneâ€“Carbon Fiber Mats Containing Multifunctional Graphene for High Stability and High Specific Capacity Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2016, 8, 11507-11515.	8.0	28
72	The effect of loading density of nickel-cobalt sulfide arrays on their cyclic stability and rate performance for supercapacitors. Science China Materials, 2016, 59, 629-638.	6.3	28

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73	Green and rapid synthesis of 3D Fe2(MoO4)3 by microwave irradiation to detect H2S gas. Materials Letters, 2016, 168, 171-175.	2.6	28
74	Multifunctional Cr 2 O 3 quantum nanodots to improve the lithium-ion storage performance of free-standing carbon nanofiber networks. Electrochimica Acta, 2016, 217, 55-61.	5.2	26
75	In-situ phase transition to form porous h-MoO3@C nanofibers with high stability for Li+/Na+ storage. Science China Materials, 2017, 60, 755-765.	6.3	25
76	Octopus tentacles-like WO3/C@CoO as high property and long life-time electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2018, 281, 1-8.	5.2	25
77	Chemically anchored NiO_xâ€“carbon composite fibers for Li-ion batteries with long cycle-life and enhanced capacity. RSC Advances, 2015, 5, 26521-26529.	3.6	24
78	CoSe2/WSe2/WO3 hybrid nanowires on carbon cloth for efficient hydrogen evolution reaction. Journal of Alloys and Compounds, 2018, 768, 889-895.	5.5	24
79	Improving the electrochemical properties of Cr-SnO 2 by multi-protecting method using graphene and carbon-coating. Solid State Ionics, 2017, 308, 1-7.	2.7	23
80	Enhanced electrochemical properties of SnO₂â€“grapheneâ€“carbon nanofibers tuned by phosphoric acid for potassium storage. Nanotechnology, 2018, 29, 375702.	2.6	22
81	Transition from brittle fracture to ductile behavior in 4Hâ€“SiC. Journal of Materials Research, 2003, 18, 1087-1095.	2.6	21
82	Fe3O4 dendrites reduced by carbon-coatings as high reversible capacity anodes for lithium ion batteries. Solid State Sciences, 2010, 12, 2024-2029.	3.2	21
83	The positive influence of graphene on the mechanical and electrochemical properties of SnxSb-graphene-carbon porous mats as binder-free electrodes for Li+ storage. Electrochimica Acta, 2015, 186, 223-230.	5.2	21
84	Designing gâ€C₃N₄/Nâ€Rich Carbon Fiber Composites for Highâ€Performance Potassiumâ€Ion Hybrid Capacitors. Energy and Environmental Materials, 2021, 4, 638-645.	12.8	20
85	Design and synthesis of Cr2O3@C@G composites with yolk-shell structure for Li+ storage. Journal of Alloys and Compounds, 2017, 724, 406-412.	5.5	19
86	A Pyrazineâ€Based Polymer for Fastâ€Charge Batteries. Angewandte Chemie, 2019, 131, 17984-17990.	2.0	19
87	Hierarchical tin-based microspheres: Solvothermal synthesis, chemical conversion, mechanism and application in lithium ion batteries. Electrochimica Acta, 2013, 106, 386-391.	5.2	17
88	Diethylamine gas sensor using V₂O₅-decorated Î±-Fe₂O₃ nanorods as a sensing material. RSC Advances, 2016, 6, 6511-6515.	3.6	17
89	The transformation of anatase TiO₂ to TiSe₂ to form TiO₂â€“TiSe₂ composites for Li⁺/Na⁺ storage with improved capacities. CrystEngComm, 2019, 21, 2517-2523.	2.6	17
90	Graphene-Based Composites as Cathode Materials for Lithium Ion Batteries. Journal of Nanomaterials, 2013, 2013, 1-8.	2.7	15

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91	3D reticular pomegranate-like CoMn 2 O 4 /C for ultrahigh rate lithium-ion storage with re-oxidation of manganese. Electrochimica Acta, 2017, 241, 244-251.	5.2	15
92	Cu2Se-ZnSe heterojunction encapsulated in carbon fibers for high-capacity anodes of sodium-ion batteries. Ionics, 2020, 26, 5525-5533.	2.4	15
93	Controllable deposition of FeV2S4 in carbon fibers for sodium-ion storage with high capacity and long lifetime. Science China Materials, 2021, 64, 1355-1366.	6.3	15
94	Small quantities of cobalt deposited on tin oxide as anode material to improve performance of lithium-ion batteries. Nanoscale, 2012, 4, 5731.	5.6	14
95	Encapsulated SnSe in carbon nanofibers as anode of sodium ion batteries with improved properties. Ionics, 2020, 26, 3937-3946.	2.4	13
96	Rational design and synthesis of sandwich-like iron nitride-graphene composites as efficient catalysts for oxygen reduction reaction. International Journal of Hydrogen Energy, 2017, 42, 202-211.	7.1	10
97	An in situ electrospinning route to fabricate NiOâ€“SnO₂ based detectors for fast H₂S sensing. Nanotechnology, 2020, 31, 145503.	2.6	10
98	Improved sodium storage performances of plasma treated self-supported carbon fibers. Solid State Ionics, 2018, 327, 52-58.	2.7	9
99	Graphene-controlled FeSe nanoparticles embedded in carbon nanofibers for high-performance potassium-ion batteries. Science China Materials, 2022, 65, 1751-1760.	6.3	9
100	Energy Storage: A Phase-Separation Route to Synthesize Porous CNTs with Excellent Stability for Na⁺ Storage (Small 22/2017). Small, 2017, 13, .	10.0	8
101	Flexible Sb-graphene-carbon nanofibers as binder-free anodes for potassium-ion batteries with enhanced properties. Nanotechnology, 2021, 32, 025401.	2.6	8
102	Microstructural Aspects and Mechanism of Degradation of 4H-SiC PiN Diodes under Forward Biasing. Materials Research Society Symposia Proceedings, 2004, 815, 223.	0.1	7
103	K+ storage in porous red blood cell-like hollow carbon. Journal of Alloys and Compounds, 2019, 779, 505-510.	5.5	7
104	Fast Response Amperometric Biosensor for H₂O₂ Detection Based on Horseradish-Peroxidase/Titania-Nanowires/Chitosan Modified Glassy Carbon Electrode. Sensor Letters, 2009, 7, 543-549.	0.4	4
105	Preparation and properties of novel microporous hydrogels with poly(ethylene glycol) dimethacrylate and carboxylated carbon nanotubes. Journal of Controlled Release, 2015, 213, e86.	9.9	4
106	In Situ Barbecue-Like Fabrication of Porous Ag/Fe2O3 Sensors. Nanoscience and Nanotechnology Letters, 2017, 9, 1387-1392.	0.4	3
107	Directly electrospinning submillimeter continuous fibers on tubes to fabricate H2S detectors with fast and high response. Nano Materials Science, 2022, 4, 376-382.	8.8	2
108	The Improvement of SiO2 Nanoparticles on the Oxygen Reduction Reaction Property of Nitrogen-Doped Mesoporous Graphene Spheres Prepared by Spray Drying. Nanoscience and Nanotechnology Letters, 2018, 10, 200-206.	0.4	2

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109	Effect of TMG Addition on the Epitaxial Growth of 3C-SiC on Si(100) and Si(111) Using Hexamethyldisilane. Materials Research Society Symposia Proceedings, 2000, 640, 1.	0.1	0
110	Cubic silicon nitride embedded in amorphous silicon dioxide. Journal of Materials Research, 2001, 16, 2179-2181.	2.6	0
111	Static Microindentation and Displacement-Sensitive Indentation Tests on Undoped GaAs. Materials Research Society Symposia Proceedings, 2005, 904, 1.	0.1	0
112	TIN-BASED COMPOUNDS AS ANODE MATERIALS FOR LITHIUM-ION STORAGE. , 2018, , 581-638.		0
113	Na/Liâ€Ion Batteries: Sâ€Doped Carbon Fibers Uniformly Embedded with Ultrasmall TiO₂ for Na⁺/Li⁺ Storage with High Capacity and Longâ€Time Stability (Small 38/2019). Small, 2019, 15, 1970207.	10.0	0