

Ye Zhang

List of Publications by Year in descending order

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82
papers

9,783
citations

38738

50
h-index

49904

87
g-index

88
all docs

88
docs citations

88
times ranked

10775
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advancement of Nanostructured Carbon for Energy Applications. <i>Chemical Reviews</i> , 2015, 115, 5159-5223.	47.7	703
2	Flexible and Weaveable Capacitor Wire Based on a Carbon Nanocomposite Fiber. <i>Advanced Materials</i> , 2013, 25, 5965-5970.	21.0	441
3	Energy harvesting and storage in 1D devices. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	421
4	High-valence metals improve oxygen evolution reaction performance by modulating 3d metal oxidation cycle energetics. <i>Nature Catalysis</i> , 2020, 3, 985-992.	34.4	390
5	Flexible and Stretchable Lithium-Ion Batteries and Supercapacitors Based on Electrically Conducting Carbon Nanotube Fiber Springs. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14564-14568.	13.8	334
6	A Novel Top-Down Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imaging-Guided Cancer Therapy. <i>Advanced Materials</i> , 2018, 30, e1803031.	21.0	318
7	Two-Dimensional Antimonene-Based Photonic Nanomedicine for Cancer Theranostics. <i>Advanced Materials</i> , 2018, 30, e1802061.	21.0	314
8	Electrochromic Fiber-Shaped Supercapacitors. <i>Advanced Materials</i> , 2014, 26, 8126-8132.	21.0	306
9	Elastic and Wearable Wire-Shaped Lithium-Ion Battery with High Electrochemical Performance. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7864-7869.	13.8	306
10	Flexible, Stretchable, and Rechargeable Fiber-Shaped Zinc-Air Battery Based on Cross-Stacked Carbon Nanotube Sheets. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15390-15394.	13.8	291
11	Scalable production of high-performing woven lithium-ion fibre batteries. <i>Nature</i> , 2021, 597, 57-63.	27.8	270
12	Winding Aligned Carbon Nanotube Composite Yarns into Coaxial Fiber Full Batteries with High Performances. <i>Nano Letters</i> , 2014, 14, 3432-3438.	9.1	224
13	The recent progress of nitrogen-doped carbon nanomaterials for electrochemical batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12932-12944.	10.3	218
14	Weaving Sensing Fibers into Electrochemical Fabric for Real-Time Health Monitoring. <i>Advanced Functional Materials</i> , 2018, 28, 1804456.	14.9	216
15	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
16	Advances in Wearable Fiber-Shaped Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016, 28, 4524-4531.	21.0	201
17	A Self-Healing Aqueous Lithium-Ion Battery. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14384-14388.	13.8	191
18	High-Performance Lithium-Air Battery with a Coaxial-Fiber Architecture. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4487-4491.	13.8	189

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19	A Gum-Like Lithium-Ion Battery Based on a Novel Arched Structure. <i>Advanced Materials</i> , 2015, 27, 1363-1369.	21.0	185
20	Fabricating Continuous Supercapacitor Fibers with High Performances by Integrating All Building Materials and Steps into One Process. <i>Advanced Materials</i> , 2015, 27, 7854-7860.	21.0	176
21	Super-stretchy lithium-ion battery based on carbon nanotube fiber. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11054.	10.3	167
22	The π -Orbital Delocalization of Main-Group Metals to Boost CO_2 Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16114-16119.	13.8	159
23	A Shape-Memory Supercapacitor Fiber. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15419-15423.	13.8	141
24	Design of a Hierarchical Ternary Hybrid for a Fiber-Shaped Asymmetric Supercapacitor with High Volumetric Energy Density. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9685-9691.	3.1	140
25	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
26	Recent Progress in Solid Electrolytes for Energy Storage Devices. <i>Advanced Functional Materials</i> , 2020, 30, 2000077.	14.9	115
27	Engineering Polymer Glue towards 90% Zinc Utilization for 1000 Hours to Make High-Performance Zn-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2107652.	14.9	115
28	A Li-Air Battery with Ultralong Cycle Life in Ambient Air. <i>Advanced Materials</i> , 2018, 30, 1704378.	21.0	113
29	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
30	Fiber-based MnO_2 /carbon nanotube/polyimide asymmetric supercapacitor. <i>Carbon</i> , 2017, 125, 595-604.	10.3	108
31	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
32	The Recent Advance in Fiber-Shaped Energy Storage Devices. <i>Advanced Electronic Materials</i> , 2019, 5, 1800456.	5.1	103
33	Weaving Efficient Polymer Solar Cell Wires into Flexible Power Textiles. <i>Advanced Energy Materials</i> , 2014, 4, 1301750.	19.5	100
34	A flexible and self-formed sandwich structure strain sensor based on AgNW decorated electrospun fibrous mats with excellent sensing capability and good oxidation inhibition properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7035-7042.	5.5	100
35	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
36	The Rise of Fiber Electronics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13643-13653.	13.8	86

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37	Stretchable lithium-air batteries for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13419-13424.	10.3	82
38	Multifunctional Fibers to Shape Future Biomedical Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1902834.	14.9	74
39	An All-Solid-State Fiber-Shaped Aluminum-Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. <i>Angewandte Chemie</i> , 2016, 128, 8111-8114.	2.0	70
40	Stable and Bright Pyridine Manganese Halides for Efficient White Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2021, 31, 2011191.	14.9	70
41	Flexible electroluminescent fiber fabricated from coaxially wound carbon nanotube sheets. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5621-5624.	5.5	69
42	A Tissue-Like Soft All-Hydrogel Battery. <i>Advanced Materials</i> , 2022, 34, e2105120.	21.0	65
43	Carbon nanomaterials for flexible lithium ion batteries. <i>Carbon</i> , 2017, 124, 79-88.	10.3	64
44	An Ultraflexible Silicon-Oxygen Battery Fiber with High Energy Density. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13741-13746.	13.8	59
45	High-Energy-Density Magnesium-Air Battery Based on Dual-Layer Gel Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15317-15322.	13.8	59
46	Recent progress of artificial interfacial layers in aqueous Zn metal batteries. <i>EnergyChem</i> , 2022, 4, 100076.	19.1	59
47	The π -Orbital Delocalization of Main-Group Metals to Boost CO_2 Electroreduction. <i>Angewandte Chemie</i> , 2018, 130, 16346-16351.	2.0	51
48	High-Efficiency and Stable Li^+/CO_2 Battery Enabled by Carbon Nanotube/Carbon Nitride Heterostructured Photocathode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	51
49	A redox-active gel electrolyte for fiber-shaped supercapacitor with high area specific capacitance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6286-6290.	10.3	47
50	A Lithium-Air Battery Stably Working at High Temperature with High Rate Performance. <i>Small</i> , 2018, 14, 1703454.	10.0	44
51	Integrating photovoltaic conversion and lithium ion storage into a flexible fiber. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7601-7605.	10.3	42
52	Broadband Nonlinear Photonics in Few-Layer Borophene. <i>Small</i> , 2021, 17, e2006891.	10.0	42
53	A self-healing and stretchable light-emitting device. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12774-12780.	5.5	36
54	Elastic and wearable ring-type supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3217-3222.	10.3	34

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55	Stretchable Energy Storage Devices Based on Carbon Materials. <i>Small</i> , 2021, 17, e2005015.	10.0	34
56	Hybrid Solar Absorber-Emitter by Coherence-Enhanced Absorption for Improved Solar Thermophotovoltaic Conversion. <i>Advanced Optical Materials</i> , 2018, 6, 1800813.	7.3	33
57	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
58	A Core-Sheath Sensing Yarn-Based Electrochemical Fabric System for Powerful Sweat Capture and Stable Sensing. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	30
59	Sticky-note supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3355-3360.	10.3	28
60	Synthesis and optoelectronics of mixed-dimensional Bi/Te binary heterostructures. <i>Nanoscale Horizons</i> , 2020, 5, 847-856.	8.0	28
61	Failure mechanism in fiber-shaped electrodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10942-10948.	10.3	26
62	Designing one-dimensional supercapacitors in a strip shape for high performance energy storage fabrics. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19304-19309.	10.3	26
63	LaCO ₃ OH microstructures with tunable morphologies: EDTA-assisted hydrothermal synthesis, formation mechanism and adsorption properties. <i>RSC Advances</i> , 2013, 3, 3907.	3.6	25
64	A Self-Healing Aqueous Lithium-Ion Battery. <i>Angewandte Chemie</i> , 2016, 128, 14596-14600.	2.0	25
65	Alignment of Thermally Conducting Nanotubes Making High-Performance Light-Driving Motors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26765-26771.	8.0	24
66	High-Performance Lithium-Air Battery with a Coaxial-Fiber Architecture. <i>Angewandte Chemie</i> , 2016, 128, 4563-4567.	2.0	23
67	Injectable Fiber Electronics for Tumor Treatment. <i>Advanced Fiber Materials</i> , 2022, 4, 246-255.	16.1	21
68	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie</i> , 2019, 131, 2459-2464.	2.0	18
69	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
70	Electrical Dynamic Switching of Magnetic Plasmon Resonance Based on Selective Lithium Deposition. <i>Advanced Materials</i> , 2020, 32, e2000058.	21.0	16
71	Designing Porous Antifouling Interfaces for High-Power Implantable Biofuel Cell. <i>Advanced Functional Materials</i> , 2021, 31, 2107160.	14.9	14
72	An Ultraflexible Silicon-Oxygen Battery Fiber with High Energy Density. <i>Angewandte Chemie</i> , 2017, 129, 13929-13934.	2.0	12

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73	The Rise of Fiber Electronics. <i>Angewandte Chemie</i> , 2019, 131, 13778-13788.	2.0	12
74	High-Energy-Density Magnesium-Air Battery Based on Dual-Layer Gel Electrolyte. <i>Angewandte Chemie</i> , 2021, 133, 15445-15450.	2.0	8
75	Lithium-plasmon-based low-powered dynamic color display. <i>National Science Review</i> , 2023, 10, .	9.5	8
76	Dual-function optoelectronic polymer device for photoelectric conversion and electroluminescence. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1144-1148.	5.5	6
77	High-Efficiency and Stable Li-CO ₂ Battery Enabled by Carbon Nanotube/Carbon Nitride Heterostructured Photocathode. <i>Angewandte Chemie</i> , 0, , .	2.0	6
78	Flexible Tellurium-Based Electrode for High-Performance Lithium-Tellurium Battery. <i>Nanomaterials</i> , 2021, 11, 2903.	4.1	4
79	Batteries for wearables. <i>National Science Review</i> , 2023, 10, .	9.5	4
80	High-performance fiber-shaped lithium-ion batteries. <i>Pure and Applied Chemistry</i> , 2020, 92, 767-772.	1.9	2
81	Å¼cktitelbild: Elastic and Wearable Wire-Shaped Lithium-Ion Battery with High Electrochemical Performance (<i>Angew. Chem.</i> 30/2014). <i>Angewandte Chemie</i> , 2014, 126, 8092-8092.	2.0	1
82	Carbon Nanotubes for Flexible Fiber Batteries. <i>Carbon Materials</i> , 2022, , 1-22.	1.2	1