

# Ye Zhang

## List of Publications by Year in descending order

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114  
papers

11,483  
citations

28274

55  
h-index

28297

105  
g-index

114  
all docs

114  
docs citations

114  
times ranked

12708  
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	MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. <i>Chemistry of Materials</i> , 2020, 32, 1703-1747.	6.7	429
4	Energy harvesting and storage in 1D devices. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	421
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	Glutathione-Responsive Prodrug Nanoparticles for Effective Drug Delivery and Cancer Therapy. <i>ACS Nano</i> , 2019, 13, 357-370.	14.6	204
17	Advances in Wearable Fiber-Shaped Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016, 28, 4524-4531.	21.0	201
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	High-Performance Lithium-Air Battery with a Coaxial-Fiber Architecture. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4487-4491.	13.8	189
20	Kerr Nonlinearity in 2D Graphdiyne for Passive Photonic Diodes. <i>Advanced Materials</i> , 2019, 31, e1807981.	21.0	187
21	A Gum-Like Lithium-Ion Battery Based on a Novel Arched Structure. <i>Advanced Materials</i> , 2015, 27, 1363-1369.	21.0	185
22	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
23	Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity. <i>Advanced Materials</i> , 2020, 32, e2001082.	21.0	171
24	Super-stretchy lithium-ion battery based on carbon nanotube fiber. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11054.	10.3	167
25	Recent Advances in Oxidation Stable Chemistry of 2D MXenes. <i>Advanced Materials</i> , 2022, 34, e2107554.	21.0	163
26	The $\pi$ -Orbital Delocalization of Main-Group Metals to Boost $\text{CO}_2$ Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16114-16119.	13.8	159
27	One-Pot Synthesis and Purification of Ultralong Silver Nanowires for Flexible Transparent Conductive Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 25465-25473.	8.0	145
28	A Shape-Memory Supercapacitor Fiber. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15419-15423.	13.8	141
29	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
30	Two-Dimensional Tellurium: Progress, Challenges, and Prospects. <i>Nano-Micro Letters</i> , 2020, 12, 99.	27.0	139
31	Bis-imidazolium based poly(ionic liquid) electrolytes for quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 18018.	6.7	135
32	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
33	Enhanced Photodetection Properties of Tellurium@Selenium Roll-to-Roll Nanotube Heterojunctions. <i>Small</i> , 2019, 15, e1900902.	10.0	120
34	Recent Progress in Solid Electrolytes for Energy Storage Devices. <i>Advanced Functional Materials</i> , 2020, 30, 2000077.	14.9	115
35	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
36	A Li-Air Battery with Ultralong Cycle Life in Ambient Air. <i>Advanced Materials</i> , 2018, 30, 1704378.	21.0	113

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37	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
38	Fiber-based MnO <sub>2</sub> /carbon nanotube/polyimide asymmetric supercapacitor. <i>Carbon</i> , 2017, 125, 595-604.	10.3	108
39	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
40	The Recent Advance in Fiber-Shaped Energy Storage Devices. <i>Advanced Electronic Materials</i> , 2019, 5, 1800456.	5.1	103
41	Weaving Efficient Polymer Solar Cell Wires into Flexible Power Textiles. <i>Advanced Energy Materials</i> , 2014, 4, 1301750.	19.5	100
42	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
43	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
44	Recent advances in doping engineering of black phosphorus. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5421-5441.	10.3	93
45	The Rise of Fiber Electronics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13643-13653.	13.8	86
46	Ultrafast Relaxation Dynamics and Nonlinear Response of Few-Layer Niobium Carbide MXene. <i>Small Methods</i> , 2020, 4, 2000250.	8.6	84
47	Highly stable MXene (V <sub>2</sub> CT <sub>x</sub> )-based harmonic pulse generation. <i>Nanophotonics</i> , 2020, 9, 2577-2585.	6.0	83
48	Stretchable lithium-air batteries for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13419-13424.	10.3	82
49	Stretchable Polymer Solar Cell Fibers. <i>Small</i> , 2015, 11, 675-680.	10.0	75
50	Multifunctional Fibers to Shape Future Biomedical Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1902834.	14.9	74
51	Functional two-dimensional black phosphorus nanostructures towards next-generation devices. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12433-12473.	10.3	73
52	Flexible electroluminescent fiber fabricated from coaxially wound carbon nanotube sheets. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5621-5624.	5.5	69
53	A Tissue-Like Soft All-Hydrogel Battery. <i>Advanced Materials</i> , 2022, 34, e2105120.	21.0	65
54	Carbon nanomaterials for flexible lithium ion batteries. <i>Carbon</i> , 2017, 124, 79-88.	10.3	64

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55	An Ultraflexible Siliconâ€“Oxygen Battery Fiber with High Energy Density. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13741-13746.	13.8	59
56	Graphdiyne as a Promising Midâ€“Infrared Nonlinear Optical Material for Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2020, 8, 2000067.	7.3	57
57	Emerging black phosphorus analogue nanomaterials for high-performance device applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1172-1197.	5.5	54
58	Black Phosphorus/Polymers: Status and Challenges. <i>Advanced Materials</i> , 2021, 33, e2100113.	21.0	53
59	Phosphorylation of Histone H2A Inhibits Transcription on Chromatin Templates. <i>Journal of Biological Chemistry</i> , 2004, 279, 21866-21872.	3.4	52
60	Ultraâ€“Small 2D PbS Nanoplatelets: Liquidâ€“Phase Exfoliation and Emerging Applications for Photoâ€“Electrochemical Photodetectors. <i>Small</i> , 2021, 17, e2005913.	10.0	50
61	Two-dimensional beta-lead oxide quantum dots. <i>Nanoscale</i> , 2018, 10, 20540-20547.	5.6	49
62	Selfâ€“Healable Black Phosphorus Photodetectors. <i>Advanced Functional Materials</i> , 2019, 29, 1906610.	14.9	48
63	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
64	Epitaxial Growth of Topological Insulators on Semiconductors (Bi <sub>2</sub> Se <sub>3</sub> /Te@Se) toward Highâ€“Performance Photodetectors. <i>Small Methods</i> , 2019, 3, 1900349.	8.6	45
65	Van der Waals Integration of Bismuth Quantum Dotsâ€“Decorated Tellurium Nanotubes (Te@Bi) Heterojunctions and Plasmaâ€“Enhanced Optoelectronic Applications. <i>Small</i> , 2019, 15, e1903233.	10.0	45
66	Synthesis of Ultralong Copper Nanowires for High-Performance Flexible Transparent Conductive Electrodes: The Effects of Polyhydric Alcohols. <i>Langmuir</i> , 2018, 34, 3884-3893.	3.5	44
67	A Lithiumâ€“Air Battery Stably Working at High Temperature with High Rate Performance. <i>Small</i> , 2018, 14, 1703454.	10.0	44
68	Structural Transformative Antioxidants for Dualâ€“Responsive Antiâ€“Inflammatory Delivery and Photoacoustic Inflammation Imaging. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14458-14466.	13.8	43
69	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
70	Plasmonic copper nanowire@TiO <sub>2</sub> nanostructures for improving the performance of dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2017, 342, 292-300.	7.8	36
71	A self-healing and stretchable light-emitting device. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12774-12780.	5.5	36
72	Two-dimensional materials toward Terahertz optoelectronic device applications. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 51, 100473.	11.6	36

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73	Recent Advances of Spatial Self-Phase Modulation in 2D Materials and Passive Photonic Device Applications. <i>Small</i> , 2020, 16, e2002252.	10.0	35
74	Elastic and wearable ring-type supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3217-3222.	10.3	34
75	Stretchable Energy Storage Devices Based on Carbon Materials. <i>Small</i> , 2021, 17, e2005015.	10.0	34
76	Designing of 0D/2D mixed-dimensional van der waals heterojunction over ultrathin g-C <sub>3</sub> N <sub>4</sub> for high-performance flexible self-powered photodetector. <i>Chemical Engineering Journal</i> , 2021, 420, 129556.	12.7	34
77	Few-layer hexagonal bismuth telluride (Bi <sub>2</sub> Te <sub>3</sub> ) nanoplates with high-performance UV-Vis photodetection. <i>Nanoscale Advances</i> , 2020, 2, 1333-1339.	4.6	33
78	Recent Applications of Graphene in Dye-sensitized Solar Cells. <i>Current Opinion in Colloid and Interface Science</i> , 2015, 20, 406-415.	7.4	31
79	Plasmon-Induced Broadband Light-Harvesting for Dye-Sensitized Solar Cells Using a Mixture of Gold Nanocrystals. <i>ChemSusChem</i> , 2016, 9, 813-819.	6.8	31
80	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
81	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
82	Sticky-note supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3355-3360.	10.3	28
83	Synthesis and optoelectronics of mixed-dimensional Bi/Te binary heterostructures. <i>Nanoscale Horizons</i> , 2020, 5, 847-856.	8.0	28
84	RANTES-mediated Chemokine Transcription in Astrocytes Involves Activation and Translocation of p90 Ribosomal S6 Protein Kinase (RSK). <i>Journal of Biological Chemistry</i> , 2002, 277, 19042-19048.	3.4	26
85	Failure mechanism in fiber-shaped electrodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10942-10948.	10.3	26
86	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
87	Synthesis of ultrathin semicircle-shaped copper nanowires in ethanol solution for low haze flexible transparent conductors. <i>Nano Research</i> , 2018, 11, 3899-3910.	10.4	25
88	All-optical logic devices based on black arsenic-phosphorus with strong nonlinear optical response and high stability. <i>Opto-Electronic Advances</i> , 2022, 5, 200046-200046.	13.3	25
89	Alignment of Thermally Conducting Nanotubes Making High-Performance Light-Driving Motors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 26765-26771.	8.0	24
90	Solar-blind deep-ultraviolet photodetectors based on solution-synthesized quasi-2D Te nanosheets. <i>Nanophotonics</i> , 2020, 9, 2459-2466.	6.0	24

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91	The rise of 2D materials/ferroelectrics for next generation photonics and optoelectronics devices. <i>APL Materials</i> , 2022, 10, .	5.1	23
92	Quantum confinement-induced enhanced nonlinearity and carrier lifetime modulation in two-dimensional tin sulfide. <i>Nanophotonics</i> , 2020, 9, 1963-1972.	6.0	22
93	Injectable Fiber Electronics for Tumor Treatment. <i>Advanced Fiber Materials</i> , 2022, 4, 246-255.	16.1	21
94	1D@0D hybrid dimensional heterojunction-based photonics logical gate and isolator. <i>Applied Materials Today</i> , 2020, 19, 100589.	4.3	19
95	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
96	Highly efficient dye-sensitized solar cells based on low concentration organic thiolate/disulfide redox couples. <i>RSC Advances</i> , 2016, 6, 70460-70467.	3.6	17
97	Atom-precise incorporation of platinum into ultrafine transition metal carbides for efficient synergetic electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4911-4919.	10.3	17
98	Dye-sensitized solar cells based on cobalt-containing room temperature ionic liquid redox shuttles. <i>RSC Advances</i> , 2017, 7, 13689-13695.	3.6	14
99	Photodetectors: Enhanced Photodetection Properties of Tellurium@Selenium Roll-to-Roll Nanotube Heterojunctions ( <i>Small</i> 23/2019). <i>Small</i> , 2019, 15, 1970125.	10.0	14
100	Designing Porous Antifouling Interfaces for High-Power Implantable Biofuel Cell. <i>Advanced Functional Materials</i> , 2021, 31, 2107160.	14.9	14
101	Negative role of cAMP-dependent protein kinase A in RANTES-mediated transcription of proinflammatory mediators through Raf. <i>FASEB Journal</i> , 2003, 17, 734-736.	0.5	10
102	Inorganic salt templated porous TiO <sub>2</sub> photoelectrode for solid-state dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 346-352.	3.6	9
103	Tellurium@Selenium core-shell hetero-junction: Facile synthesis, nonlinear optics, and ultrafast photonics applications towards mid-infrared regime. <i>Applied Materials Today</i> , 2020, 20, 100657.	4.3	9
104	Multifunctional VI-VI binary heterostructure-based self-powered pH-sensitive photo-detector. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5991-6000.	5.5	8
105	High-Energy-Density Magnesium-Air Battery Based on Dual-Layer Gel Electrolyte. <i>Angewandte Chemie</i> , 2021, 133, 15445-15450.	2.0	8
106	Dual-function optoelectronic polymer device for photoelectric conversion and electroluminescence. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1144-1148.	5.5	6
107	Photodetectors: Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity ( <i>Adv. Mater.</i> 23/2020). <i>Advanced Materials</i> , 2020, 32, 2070175.	21.0	5
108	Cancer Theranostics: A Novel Top-Down Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imaging-Guided Cancer Therapy ( <i>Adv. Mater.</i> 36/2018). <i>Advanced Materials</i> , 2018, 30, 1870268.	21.0	4

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109	Structural Transformative Antioxidants for Dual-Responsive Anti-Inflammatory Delivery and Photoacoustic Inflammation Imaging. <i>Angewandte Chemie</i> , 2021, 133, 14579-14587.	2.0	4
110	Flexible Tellurium-Based Electrode for High-Performance Lithium-Tellurium Battery. <i>Nanomaterials</i> , 2021, 11, 2903.	4.1	4
111	Tellurium Nanotubes and Chemical Analogues from Preparation to Applications: A Minor Review. <i>Nanomaterials</i> , 2022, 12, 2151.	4.1	4
112	Cancer Theranostics: Two-Dimensional Antimonene-Based Photonic Nanomedicine for Cancer Theranostics ( <i>Adv. Mater.</i> 38/2018). <i>Advanced Materials</i> , 2018, 30, 1870283.	21.0	3
113	Tunable Nonlinearity in 2D Graphdiyne Oxide for High-Performance All-Optical Modulation. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	3
114	High-performance fiber-shaped lithium-ion batteries. <i>Pure and Applied Chemistry</i> , 2020, 92, 767-772.	1.9	2