Zhe Wang

List of Publications by Year
in descending order

38	1,321	411340 20	406436 35
papers	citations	h-index	g-index

42	42	42	1547
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advanced Multifunctional Aqueous Rechargeable Batteries Design: From Materials and Devices to Systems. Advanced Materials, 2022, 34, e2104327.	11.1	78
2	Progress in Metafibers for Sustainable Radiative Cooling and Prospects of Achieving Thermally Drawn Metafibers. Advanced Energy and Sustainability Research, 2022, 3, 2100168.	2.8	2
3	Recent progress of fiber-based transistors: materials, structures and applications. Frontiers of Optoelectronics, 2022, 15, 1.	1.9	10
4	Freestanding Metalâ€“Organic Frameworks and Their Derivatives: An Emerging Platform for Electrochemical Energy Storage and Conversion. Chemical Reviews, 2022, 122, 10087-10125.	23.0	126
5	Micro/nanofiber fabrication technologies for wearable sensors: a review. Journal of Micromechanics and Microengineering, 2022, 32, 064002.	1.5	5
6	Thermally drawn multifunctional fibers: Toward the next generation of information technology. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	21
7	Highâ€Capacity Ironâ€Based Anodes for Aqueous Secondary Nickelâ^'Iron Batteries: Recent Progress and Prospects. ChemElectroChem, 2021, 8, 274-290.	1.7	23
8	Ultrasensitive Exhaled Breath Sensors Based on Antiâ€Resonant Hollow Core Fiber with In Situ Grown ZnOâ€Bi₂O₃ Nanosheets. Advanced Materials Interfaces, 2021, 8, 2001978.	1.9	61
9	Self-powered multifunctional sensing based on super-elastic fibers by soluble-core thermal drawing. Nature Communications, 2021, 12, 1416.	5.8	68
10	Advanced Thermally Drawn Multimaterial Fibers: Structure-Enabled Functionalities. Advanced Devices & Instrumentation, 2021, 2021, .	4.0	10
11	Flexible Tactile Sensor Based on Patterned Ag-Nanofiber Electrodes through Electrospinning. Sensors, 2021, 21, 2413.	2.1	18
12	NaTi2(PO4)3 hollow nanoparticles encapsulated in carbon nanofibers as novel anodes for flexible aqueous rechargeable sodium-ion batteries. Nano Energy, 2021, 82, 105764.	8.2	43
13	Advanced Multi-Material Optoelectronic Fibers: A Review. Journal of Lightwave Technology, 2021, 39, 3836-3845.	2.7	16
14	Recent Advances and Prospects of Fiberâ€Shaped Rechargeable Aqueous Alkaline Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2100060.	2.8	5
15	Elastic and Stretchable Functional Fibers: A Review of Materials, Fabrication Methods, and Applications. Advanced Fiber Materials, 2021, 3, 1-13.	7.9	74
16	Highâ€Capacity Ironâ€Based Anodes for Aqueous Secondary Nickelâ€“Iron Batteries: Recent Progress and Prospects. ChemElectroChem, 2021, 8, 273-273.	1.7	2
17	Designer patterned functional fibers via direct imprinting in thermal drawing. Nature Communications, 2020, 11, 3842.	5.8	36
18	Singleâ€Crystal SnSe Thermoelectric Fibers via Laserâ€Induced Directional Crystallization: From 1D Fibers to Multidimensional Fabrics. Advanced Materials, 2020, 32, e2002702.	11.1	57

#	Article	IF	Citations
19	Rational Construction of Selfâ€Standing Sulfurâ€Doped Fe₂O₃ Anodes with Promoted Energy Storage Capability for Wearable Aqueous Rechargeable NiCoâ€Fe Batteries. Advanced Energy Materials, 2020, 10, 2001064.	10.2	39
20	Engineering MoS₂ Nanosheets on Spindleâ€Like Î±â€Fe₂O₃ as Highâ€Performance Coreâ€“Shell Pseudocapacitive Anodes for Fiberâ€Shaped Aqueous Lithiumâ€Ion Capacitors. Advanced Functional Materials, 2020, 30, 2003967.	7.8	60
21	All-Metal Phosphide Electrodes for High-Performance Quasi-Solid-State Fiber-Shaped Aqueous Rechargeable Niâ€“Fe Batteries. ACS Applied Materials & Interfaces, 2020, 12, 12801-12808.	4.0	30
22	Flexible Self-Powered ZnO Film UV Sensor with a High Response. ACS Applied Materials & Interfaces, 2019, 11, 26127-26133.	4.0	69
23	In-Fiber Production of Laser-Structured Stress-Mediated Semiconductor Particles. ACS Applied Materials & Interfaces, 2019, 11, 45330-45337.	4.0	8
24	One-step synthesis of cyclodextrin-capped gold nanoparticles for ultra-sensitive and highly-integrated plasmonic biosensors. Sensors and Actuators B: Chemical, 2019, 286, 429-436.	4.0	42
25	In-fibre particle manipulation and device assembly via laser induced thermocapillary convection. Nature Communications, 2019, 10, 5206.	5.8	29
26	Ultraflexible Glassy Semiconductor Fibers for Thermal Sensing and Positioning. ACS Applied Materials & Interfaces, 2019, 11, 2441-2447.	4.0	50
27	Formation of ultra-flexible, conformal, and nano-patterned photonic surfaces via polymer cold-drawing. Journal of Materials Chemistry C, 2018, 6, 4649-4657.	2.7	17
28	Electron-Rich Two-Dimensional Molybdenum Trioxides for Highly Integrated Plasmonic Biosensing. ACS Photonics, 2018, 5, 347-352.	3.2	45
29	Sparse Bayesian Recovery Method for Noisy Underdetermined Convolutive Speech Separation. , 2018, , .		0
30	Highly Oriented Electrospun P(VDFâ€TrFE) Fibers via Mechanical Stretching for Wearable Motion Sensing. Advanced Materials Technologies, 2018, 3, 1800033.	3.0	46
31	Laserâ€Induced Inâ€Fiber Fluid Dynamical Instabilities for Precise and Scalable Fabrication of Spherical Particles. Advanced Functional Materials, 2017, 27, 1703245.	7.8	29
32	High-performance, flexible, and ultralong crystalline thermoelectric fibers. Nano Energy, 2017, 41, 35-42.	8.2	132
33	A stable and long-lasting concentration cell based on a reduced graphene oxide membrane and natural resource electrolyte. Journal of Materials Chemistry A, 2017, 5, 21130-21133.	5.2	3
34	Pristine graphene oxide film-based contactless actuators driven by electrostatic forces. Journal of Materials Chemistry C, 2017, 5, 9534-9539.	2.7	9
35	Ordered and Atomically Perfect Fragmentation of Layered Transition Metal Dichalcogenides via Mechanical Instabilities. ACS Nano, 2017, 11, 9191-9199.	7.3	53
36	Particles: Laserâ€Induced Inâ€Fiber Fluid Dynamical Instabilities for Precise and Scalable Fabrication of Spherical Particles (Adv. Funct. Mater. 43/2017). Advanced Functional Materials, 2017, 27, .	7.8	0

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37	Underdetermined Separation of Speech Mixture Based on Sparse Bayesian Learning. Mathematical Problems in Engineering, 2016, 2016, 1-13.	0.6	1
38	A Voice Activity Detector Based on Noise Spectrum Adaptation and Discrimination Information for Automatic Speech Recognition System. , 2014, , .		2