

# Yongyi Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,325  
citations

304368

22  
h-index

214527

47  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3518  
citing authors

#	ARTICLE	IF	CITATIONS
1	Noble metal-comparable SERS enhancement from semiconducting metal oxides by making oxygen vacancies. <i>Nature Communications</i> , 2015, 6, 7800.	5.8	534
2	Carbon Nanotube Fibers for Wearable Devices and Smart Textiles. <i>Advanced Materials</i> , 2016, 28, 10529-10538.	11.1	310
3	Elastic, Conductive, Polymeric Hydrogels and Sponges. <i>Scientific Reports</i> , 2014, 4, 5792.	1.6	139
4	Asymmetric gel polymer electrolyte with high lithium ion conductivity for dendrite-free lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8033-8040.	5.2	93
5	Soft and MRI Compatible Neural Electrodes from Carbon Nanotube Fibers. <i>Nano Letters</i> , 2019, 19, 1577-1586.	4.5	87
6	Direct spinning of high-performance graphene fiber supercapacitor with a three-ply core-sheath structure. <i>Carbon</i> , 2018, 132, 241-248.	5.4	75
7	Bio-Inspired Aggregation Control of Carbon Nanotubes for Ultra-Strong Composites. <i>Scientific Reports</i> , 2015, 5, 11533.	1.6	58
8	Programmable Writing of Graphene Oxide/Reduced Graphene Oxide Fibers for Sensible Networks with <i>in Situ</i> Welded Junctions. <i>ACS Nano</i> , 2014, 8, 4325-4333.	7.3	56
9	Gradient Heating Effect Modulated by Hydrophobic/Hydrophilic Carbon Nanotube Network Structures for Ultrafast Solar Steam Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 19109-19116.	4.0	55
10	Oxygen Evolution Assisted Fabrication of Highly Loaded Carbon Nanotube/MnO <sub>2</sub> Hybrid Films for High-Performance Flexible Pseudosupercapacitors. <i>Small</i> , 2016, 12, 2035-2045.	5.2	52
11	Wet-spun PVDF nanofiber separator for direct fabrication of coaxial fiber-shaped supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 400, 125835.	6.6	52
12	One-step wet-spinning assembly of twisting-structured graphene/carbon nanotube fiber supercapacitor. <i>Journal of Energy Chemistry</i> , 2020, 51, 434-441.	7.1	43
13	High performance plasmonic random laser based on nanogaps in bimetallic porous nanowires. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	42
14	Strong and Robust Electrochemical Artificial Muscles by Ionic-Liquid Nanofiber-Sheathed Carbon Nanotube Yarns. <i>Small</i> , 2021, 17, e2006181.	5.2	40
15	SWCNT-modulated folding-resistant sandwich-structured graphene film for high-performance electromagnetic interference shielding. <i>Carbon</i> , 2020, 162, 490-496.	5.4	39
16	Flexible visible-light-driven photoelectrochemical biosensor based on molecularly imprinted nanoparticle intercalation-modulated graphene fiber for ultrasensitive urea detection. <i>Carbon</i> , 2020, 157, 457-465.	5.4	36
17	The synergetic relationship between the length and orientation of carbon nanotubes in direct spinning of high-strength carbon nanotube fibers. <i>Materials and Design</i> , 2021, 203, 109557.	3.3	36
18	High-loading Co-doped NiO nanosheets on carbon-welded carbon nanotube framework enabling rapid charge kinetic for enhanced supercapacitor performance. <i>Journal of Energy Chemistry</i> , 2020, 50, 240-247.	7.1	35

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19	Beanâ€Podâ€Inspired 3Dâ€Printed Phase Change Microlattices for Solarâ€Thermal Energy Harvesting and Storage. <i>Small</i> , 2021, 17, e2101093.	5.2	34
20	Transfer of vertically aligned carbon nanotube arrays onto flexible substrates for gecko-inspired dry adhesive application. <i>RSC Advances</i> , 2015, 5, 46749-46759.	1.7	26
21	In-plane mechanical properties of carbon nanotube films fabricated by floating catalyst chemical vapor decomposition. <i>Journal of Materials Science</i> , 2015, 50, 8166-8174.	1.7	25
22	Regulation of multidimensional silver nanostructures for high-performance composite conductive adhesives. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 137, 106025.	3.8	25
23	In situ twisting for stabilizing and toughening conductive graphene yarns. <i>Nanoscale</i> , 2017, 9, 11523-11529.	2.8	24
24	3D-Printed Flexible Phase-Change Nonwoven Fabrics toward Multifunctional Clothing. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 7283-7291.	4.0	24
25	Thin-walled porous carbon tile-packed paper for high-rate Zn-ion capacitor cathode. <i>Chemical Engineering Journal</i> , 2022, 431, 133241.	6.6	23
26	PtFe Alloy Nanoparticles Confined on Carbon Nanotube Networks as Air Cathodes for Flexible and Wearable Energy Devices. <i>ACS Applied Nano Materials</i> , 2019, 2, 7870-7879.	2.4	22
27	Tailoring the structure and nitrogen content of nitrogen-doped carbon nanotubes by water-assisted growth. <i>Carbon</i> , 2014, 69, 247-254.	5.4	21
28	Millisecond tension-annealing for enhancing carbon nanotube fibers. <i>Nanoscale</i> , 2019, 11, 13909-13916.	2.8	21
29	Nanoparticle intercalation-modulated stretchable conductive graphene fibers with combined photoelectric properties. <i>Carbon</i> , 2019, 141, 218-225.	5.4	21
30	Fast water transport reversible CNT/PVA hybrid hydrogels with highly environmental tolerance for multifunctional sport headband. <i>Composites Part B: Engineering</i> , 2021, 211, 108661.	5.9	21
31	Hydrothermal deposition of a zinc oxide nanorod array on a carbon nanotube film as a piezoelectric generator. <i>RSC Advances</i> , 2014, 4, 43772-43777.	1.7	20
32	A new insight into the rechargeable mechanism of manganese dioxide based symmetric supercapacitors. <i>RSC Advances</i> , 2017, 7, 8561-8566.	1.7	19
33	Core-sheath 3D printing of highly conductive and MoS <sub>2</sub> -loaded electrode with pseudocapacitive behavior. <i>Chemical Engineering Journal</i> , 2021, 423, 130304.	6.6	19
34	A Grapheneâ€Based Coaxial Fibrous Photofuel Cell Powered by Mine Gas. <i>Advanced Functional Materials</i> , 2019, 29, 1906813.	7.8	18
35	Carbon Nanotube Network-Based Solar-Thermal Water Evaporator and Thermoelectric Module for Electricity Generation. <i>ACS Applied Nano Materials</i> , 2021, 4, 8906-8912.	2.4	18
36	Modulusâ€Tailorable, Stretchable, and Biocompatible Carbonene Fiber for Adaptive Neural Electrode. <i>Advanced Functional Materials</i> , 2022, 32, 2107360.	7.8	15

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37	Flexible and smart fibers decorated with Ag nanoflowers for highly active surface-enhanced Raman scattering detection. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1468-1476.	1.2	14
38	All-solid-state supercapacitors using a highly-conductive neutral gum electrolyte. <i>RSC Advances</i> , 2019, 9, 8169-8174.	1.7	14
39	Superflexible yet robust functionalized carbon nanotube fiber reinforced sulphoaluminate cement-based grouting materials with excellent mechanical, electrical and thermal properties. <i>Construction and Building Materials</i> , 2022, 328, 126999.	3.2	14
40	Robust, amphiphobic and super-buoyant CNT foams promising for self-floating functional platforms. <i>Carbon</i> , 2020, 168, 439-447.	5.4	12
41	Kinetic enhanced bio-derived porous carbon tile laminate paper for ultrahigh-rate supercapacitors. <i>Journal of Power Sources</i> , 2022, 525, 231148.	4.0	12
42	Aligned carbon nanotube fibers for fiber-shaped solar cells, supercapacitors and batteries. <i>RSC Advances</i> , 2021, 11, 6628-6643.	1.7	10
43	Spontaneous Salt-Preventing Solar-Thermal Water Evaporator with a High Evaporation Efficiency through Dual-Mode Water Transfer. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 15549-15557.	4.0	10
44	Length-dependent carbon nanotube film structures and mechanical properties. <i>Nanotechnology</i> , 2021, 32, 265702.	1.3	9
45	Self-Assembled Bipolar Metals with Hollow Carbon Spheres for High-Performance Li-S Battery Cathodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 12745-12753.	2.5	9
46	Rational design of fast recoverable shape-memory photoelectric spring in response to tiny deformation for monitoring underwater microvibration. <i>Composites Part B: Engineering</i> , 2020, 202, 108402.	5.9	7
47	Integrated coaxial graphene-based yarn with multidimensional architecture for self-powered photoelectrochemical methane sensor. <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131965.	4.0	7
48	ZnS nanolayer coated hollow carbon spheres with enhanced rate and cycling performance for Li-S batteries. <i>Science China Technological Sciences</i> , 2022, 65, 272-281.	2.0	6
49	High-strength carbon nanotube fibers with near 100% purity acquired via isothermal vacuum annealing. <i>Diamond and Related Materials</i> , 2021, 116, 108391.	1.8	5
50	Carbon-Based Fiber Materials as Implantable Depth Neural Electrodes. <i>Frontiers in Neuroscience</i> , 2021, 15, 771980.	1.4	5
51	Highly aligned welding of ultrathin graphene layer to robust carbon nanotube film for significantly enhanced thermal conductivity. <i>Nanotechnology</i> , 2021, 32, 495710.	1.3	4
52	Sieve-Like CNT Film Coupled with TiO <sub>2</sub> Nanowire for High-Performance Continuous-Flow Photodegradation of Rhodamine B under Visible Light Irradiation. <i>Nanomaterials</i> , 2021, 11, 1335.	1.9	3
53	Revolution-assisted direct writing of highly controllable spiral graphene fibers with ultrasensitive photoelectric response. <i>Composites Communications</i> , 2021, 26, 100783.	3.3	3
54	Direct writing of graphene-based fibers: Multilevel assembly and functional properties. <i>Carbon</i> , 2022, 192, 109-122.	5.4	2

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55	A modified spin-casting approach for scalable preparation of ultra-thick reduced graphene oxide films with high thermal conductivity. <i>Materials Research Express</i> , 2022, 9, 036405.	0.8	1