

# Zunfeng Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64  
papers

4,719  
citations

24  
h-index

67  
g-index

67  
ext. papers

5,513  
ext. citations

10.1  
avg, IF

5.39  
L-index

#	Paper	IF	Citations
64	Microfluidic manipulation by spiral hollow-fibre actuators.. <i>Nature Communications</i> , <b>2022</b> , 13, 1331	17.4	6
63	Protein-Like Nanogel for Spinning Hierarchically Structured Artificial Spider Silk.. <i>Advanced Materials</i> , <b>2022</b> , e2201843	24	4
62	Transformable thin-film robots capable of crawling, rolling, and oscillation. <i>Applied Materials Today</i> , <b>2022</b> , 28, 101514	6.6	
61	Self-Healing, Robust, and Stretchable Electrode by Direct Printing on Dynamic Polyurea Surface at Slightly Elevated Temperature. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102225	15.6	20
60	The Power of Fiber Twist. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 2624-2636	24.3	11
59	Long-Residence Pneumonia Vaccine Developed Using PEG-Grafted Hybrid Nanovesicles from Cell Membrane Fusion of Mycoplasma and IFN- $\beta$ Primed Macrophages. <i>Small</i> , <b>2021</b> , 17, e2101183	11	0
58	Twist-based cooling of polyvinylidene difluoride for mechanothermochromic fibers. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 128060	14.7	6
57	Recent Advances in Twisted-Fiber Artificial Muscles. <i>Advanced Intelligent Systems</i> , <b>2021</b> , 3, 2000185	6	9
56	Tuning the reversibility of hair artificial muscles by disulfide cross-linking for sensors, switches, and soft robotics. <i>Materials Horizons</i> , <b>2021</b> , 8, 1538-1546	14.4	23
55	Stretchable electromagnetic interference shielding and antenna for wireless strain sensing by anisotropic micron-steel-wire based conductive elastomers. <i>Chinese Physics B</i> , <b>2021</b> , 30, 018401	1.2	
54	A review of the synergistic effect of multi-coordination crystal fields on electrocatalysts. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6718-6734	7.8	0
53	Size-refinement enhanced flexibility and electrochemical performance of MXene electrodes for flexible waterproof supercapacitors. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 63, 594-594	12	0
52	Robust Jumping Actuator with a Shrimp-Shell Architecture. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104558	24	9
51	Highly improved water tolerance of hydrogel fibers with a carbon nanotube sheath for rotational, contractile and elongational actuation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10240-10250	13	11
50	Somatosensitive film soft crawling robots driven by artificial muscle for load carrying and multi-terrain locomotion. <i>Materials Horizons</i> , <b>2021</b> , 8, 1783-1794	14.4	18
49	Progresses in Tensile, Torsional, and Multifunctional Soft Actuators. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007437	15.6	26
48	Core-shell PdAu nanocluster catalysts to suppress sulfur poisoning. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 15010-15019	3.6	0

47	Spider Silk-Inspired Artificial Fibers.. <i>Advanced Science</i> , <b>2021</b> , e2103965	13.6	7
46	Tensile and torsional elastomer fiber artificial muscle by entropic elasticity with thermo-piezoresistive sensing of strain and rotation by a single electric signal. <i>Materials Horizons</i> , <b>2020</b> , 7, 3305-3315	14.4	26
45	Extracellular Nanovesicle Enhanced Gene Transfection Using Polyethyleneimine in HEK293T Cells and Zebrafish Embryos. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 448	5.8	2
44	Design of Dendritic Large-Pore Mesoporous Silica Nanoparticles with Controlled Structure and Formation Mechanism in Dual-Templating Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18823-18832	9.5	14
43	Moisture-sensitive torsional cotton artificial muscle and textile. <i>Chinese Physics B</i> , <b>2020</b> , 29, 048103	1.2	24
42	Self-assembly of dendritic-lamellar MXene/Carbon nanotube conductive films for wearable tactile sensors and artificial skin. <i>Carbon</i> , <b>2020</b> , 164, 111-120	10.4	46
41	Intrinsic elastic conductors with internal buckled electron pathway for flexible electromagnetic interference shielding and tumor ablation. <i>Science China Materials</i> , <b>2020</b> , 63, 1318-1329	7.1	7
40	Twisted and coiled bamboo artificial muscles for moisture responsive torsional and tensile actuation. <i>Chinese Physics B</i> , <b>2020</b> , 29, 118103	1.2	9
39	Recent Advances in Photoactuators and Their Applications in Intelligent Bionic Movements. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000886	8.1	26
38	One-Step Synergistic Effect to Produce Two-Dimensional N-Doped Hierarchical Porous Carbon Nanosheets for High-Performance Flexible Supercapacitors. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 8562-8572	6.1	12
37	Stretchable microwave absorbing and electromagnetic interference shielding foam with hierarchical buckling induced by solvent swelling. <i>Carbon</i> , <b>2020</b> , 157, 466-477	10.4	36
36	Enhancing the strength, toughness, and electrical conductivity of twist-spun carbon nanotube yarns by bridging. <i>Carbon</i> , <b>2019</b> , 150, 268-274	10.4	22
35	Photothermal Bimorph Actuators with In-Built Cooler for Light Mills, Frequency Switches, and Soft Robots. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808995	15.6	59
34	A General Approach for Buckled Bulk Composites by Combined Biaxial Stretch and Layer-by-Layer Deposition and Their Electrical and Electromagnetic Applications. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800817	6.4	12
33	Moisture Sensitive Smart Yarns and Textiles from Self-Balanced Silk Fiber Muscles. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808241	15.6	119
32	Multi-responsive and multi-motion bimorph actuator based on super-aligned carbon nanotube sheets. <i>Carbon</i> , <b>2019</b> , 148, 487-495	10.4	35
31	Buckled Structures: Fabrication and Applications in Wearable Electronics. <i>Small</i> , <b>2019</b> , 15, e1804805	11	46
30	Controllable Preparation of Ordered and Hierarchically Buckled Structures for Inflatable Tumor Ablation, Volumetric Strain Sensor, and Communication via Inflatable Antenna. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 10862-10873	9.5	10

29	Wearable Electronics: Buckled Structures: Fabrication and Applications in Wearable Electronics (Small 32/2019). <i>Small</i> , <b>2019</b> , 15, 1970169	11	1
28	Photothermal Actuators: Photothermal Bimorph Actuators with In-Built Cooler for Light Mills, Frequency Switches, and Soft Robots (Adv. Funct. Mater. 27/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970184	15.6	2
27	Torsional refrigeration by twisted, coiled, and supercoiled fibers. <i>Science</i> , <b>2019</b> , 366, 216-221	33.3	65
26	Artificial spider silk from ion-doped and twisted core-sheath hydrogel fibres. <i>Nature Communications</i> , <b>2019</b> , 10, 5293	17.4	59
25	Fabrication of Stretchable Copper Coated Carbon Nanotube Conductor for Non-Enzymatic Glucose Detection Electrode with Low Detection Limit and Selectivity. <i>Polymers</i> , <b>2018</b> , 10,	4.5	7
24	Flexible and Compressible Temperature Sensors Based on Hierarchically Buckled Carbon Nanotube/Rubber Bi-Sheath-Core Fibers. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 2732-2737	1.3	4
23	Fabrication of Light-Triggered Soft Artificial Muscles via a Mixed-Matrix Membrane Strategy. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 10349-10353	3.6	24
22	Fabrication of Light-Triggered Soft Artificial Muscles via a Mixed-Matrix Membrane Strategy. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 10192-10196	16.4	60
21	Mechanical modulation of terahertz wave via buckled carbon nanotube sheets. <i>Optics Express</i> , <b>2018</b> , 26, 28738-28750	3.3	13
20	Glycyrrhetic Acid Functionalized Graphene Oxide for Mitochondria Targeting and Cancer Treatment In Vivo. <i>Small</i> , <b>2018</b> , 14, 1703306	11	58
19	Three-Dimensional Conducting Elastomeric Composites Based on Buckling Carbon Nanotube Sheets for Interconnects and Temperature Sensor. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 1934-1941	1.3	5
18	Harvesting electrical energy from carbon nanotube yarn twist. <i>Science</i> , <b>2017</b> , 357, 773-778	33.3	214
17	Flexible Electronics: A Bi-Sheath Fiber Sensor for Giant Tensile and Torsional Displacements (Adv. Funct. Mater. 35/2017). <i>Advanced Functional Materials</i> , <b>2017</b> , 27,	15.6	3
16	Synergistically assembled MWCNT/graphene foam with highly efficient microwave absorption in both C and X bands. <i>Carbon</i> , <b>2017</b> , 124, 506-514	10.4	214
15	A Bi-Sheath Fiber Sensor for Giant Tensile and Torsional Displacements. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702134	15.6	68
14	Miniaturized Stretchable and High-Rate Linear Supercapacitors. <i>Nanoscale Research Letters</i> , <b>2017</b> , 12, 448	5	5
13	Gold Nanorods with Silica Shell and PAMAM Dendrimers for Efficient Photothermal Therapy and Low Toxic Codelivery of Anticancer Drug and siRNA. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1701166	4.6	22
12	Microstructure evolution of polycrystalline silicon by molecular dynamics simulation. <i>AIP Advances</i> , <b>2017</b> , 7, 065113	1.5	1

11	Downsized Sheath-Core Conducting Fibers for Weavable Superelastic Wires, Biosensors, Supercapacitors, and Strain Sensors. <i>Advanced Materials</i> , <b>2016</b> , 28, 4998-5007	24	107
10	Synthesis and characterization of the isolated straight polymer chain inside of single-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 5570-5	1.3	4
9	Polymer Photovoltaic Cells Based on Solution-Processable Graphene and P3HT. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 894-904	15.6	437
8	Organic photovoltaic cells based on an acceptor of soluble graphene. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 223303	3.4	181
7	High-Efficiency Loading and Controlled Release of Doxorubicin Hydrochloride on Graphene Oxide. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17554-17558	3.8	805
6	Multi-functionalized single-walled carbon nanotubes as tumor cell targeting biological transporters. <i>Journal of Nanoparticle Research</i> , <b>2008</b> , 10, 815-822	2.3	34
5	Organic solar cells with solution-processed graphene transparent electrodes. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 263302	3.4	788
4	Reflection and absorption contributions to the electromagnetic interference shielding of single-walled carbon nanotube/polyurethane composites. <i>Carbon</i> , <b>2007</b> , 45, 821-827	10.4	589
3	A novel method for extraction and separation of total flavones and total astragalosides from Radix astragali. <i>Chemistry of Natural Compounds</i> , <b>2007</b> , 43, 29-33	0.7	2
2	Microwave Absorption of Single-Walled Carbon Nanotubes/Soluble Cross-Linked Polyurethane Composites. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 13696-13700	3.8	280
1	Preparation and Size Determination of a Soluble Cross-Linked Macromolecule of Polyurethane with an Ethylene Diamine Chain Extender. <i>Macromolecules</i> , <b>2005</b> , 38, 69-76	5.5	9