

Yingying Zhang

List of Publications by Citations

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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.

124 papers	8,643 citations	48 h-index	91 g-index
125 ext. papers	10,712 ext. citations	11.5 avg, IF	6.52 L-index

#	Paper	IF	Citations
124	Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors. <i>Advanced Materials</i> , 2016 , 28, 6640-8	24	584
123	Advanced Carbon for Flexible and Wearable Electronics. <i>Advanced Materials</i> , 2019 , 31, e1801072	24	458
122	Flexible and Highly Sensitive Pressure Sensors Based on Bionic Hierarchical Structures. <i>Advanced Functional Materials</i> , 2017 , 27, 1606066	15.6	372
121	Epidermis Microstructure Inspired Graphene Pressure Sensor with Random Distributed Spinosum for High Sensitivity and Large Linearity. <i>ACS Nano</i> , 2018 , 12, 2346-2354	16.7	361
120	Carbonized Cotton Fabric for High-Performance Wearable Strain Sensors. <i>Advanced Functional Materials</i> , 2017 , 27, 1604795	15.6	296
119	Carbonized Silk Nanofiber Membrane for Transparent and Sensitive Electronic Skin. <i>Advanced Functional Materials</i> , 2017 , 27, 1605657	15.6	293
118	Graphene Textile Strain Sensor with Negative Resistance Variation for Human Motion Detection. <i>ACS Nano</i> , 2018 , 12, 9134-9141	16.7	284
117	Growth of half-meter long carbon nanotubes based on Schulz-Flory distribution. <i>ACS Nano</i> , 2013 , 7, 6156-6161	16.7	255
116	Polymer-embedded carbon nanotube ribbons for stretchable conductors. <i>Advanced Materials</i> , 2010 , 22, 3027-31	24	253
115	Superlubricity in centimetres-long double-walled carbon nanotubes under ambient conditions. <i>Nature Nanotechnology</i> , 2013 , 8, 912-6	28.7	243
114	Extremely Black Vertically Aligned Carbon Nanotube Arrays for Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28596-28603	9.5	192
113	Air filtration in the free molecular flow regime: a review of high-efficiency particulate air filters based on carbon nanotubes. <i>Small</i> , 2014 , 10, 4543-61	11	189
112	Integrated textile sensor patch for real-time and multiplex sweat analysis. <i>Science Advances</i> , 2019 , 5, eaax0649	14.3	183
111	Multilayer Graphene Epidermal Electronic Skin. <i>ACS Nano</i> , 2018 , 12, 8839-8846	16.7	180
110	Carbon nanotube yarn strain sensors. <i>Nanotechnology</i> , 2010 , 21, 305502	3.4	177
109	An All-Silk-Derived Dual-Mode E-skin for Simultaneous Temperature-Pressure Detection. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39484-39492	9.5	151
108	Sheath-Core Graphite/Silk Fiber Made by Dry-Meyer-Rod-Coating for Wearable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20894-9	9.5	146

107	Self-Healable Multifunctional Electronic Tattoos Based on Silk and Graphene. <i>Advanced Functional Materials</i> , 2019 , 29, 1808695	15.6	143
106	Silk nanofibers as high efficient and lightweight air filter. <i>Nano Research</i> , 2016 , 9, 2590-2597	10	135
105	CVD growth of fingerprint-like patterned 3D graphene film for an ultrasensitive pressure sensor. <i>Nano Research</i> , 2018 , 11, 1124-1134	10	132
104	Feeding Single-Walled Carbon Nanotubes or Graphene to Silkworms for Reinforced Silk Fibers. <i>Nano Letters</i> , 2016 , 16, 6695-6700	11.5	129
103	Silk-Based Advanced Materials for Soft Electronics. <i>Accounts of Chemical Research</i> , 2019 , 52, 2916-2927	24.3	128
102	Carbonized silk georgette as an ultrasensitive wearable strain sensor for full-range human activity monitoring. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7604-7611	7.1	111
101	Integration of stiff graphene and tough silk for the design and fabrication of versatile electronic materials. <i>Advanced Functional Materials</i> , 2018 , 28, 1705291	15.6	109
100	Advanced carbon materials for flexible and wearable sensors. <i>Science China Materials</i> , 2017 , 60, 1026-1062	10.2	108
99	Producing superior composites by winding carbon nanotubes onto a mandrel under a poly(vinyl alcohol) spray. <i>Carbon</i> , 2011 , 49, 4786-4791	10.4	100
98	Horizontally aligned carbon nanotube arrays: growth mechanism, controlled synthesis, characterization, properties and applications. <i>Chemical Society Reviews</i> , 2017 , 46, 3661-3715	58.5	97
97	Substrate-induced Raman frequency variation for single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17156-7	16.4	96
96	Weft-Knitted Fabric for a Highly Stretchable and Low-Voltage Wearable Heater. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700193	6.4	95
95	Printable Smart Pattern for Multifunctional Energy-Management E-Textile. <i>Matter</i> , 2019 , 1, 168-179	12.7	92
94	Carbon Nanotube-Enhanced Growth of Silicon Nanowires as an Anode for High-Performance Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 87-93	21.8	85
93	Intrinsically Stretchable and Conductive Textile by a Scalable Process for Elastic Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13331-13338	9.5	84
92	Tailoring the morphology of carbon nanotube arrays: from spinnable forests to undulating foams. <i>ACS Nano</i> , 2009 , 3, 2157-62	16.7	83
91	Physical sensors for skin-inspired electronics. <i>Information Materials</i> , 2020 , 2, 184-211	23.1	80
90	Bioinspired Fluffy Fabric with In Situ Grown Carbon Nanotubes for Ultrasensitive Wearable Airflow Sensor. <i>Advanced Materials</i> , 2020 , 32, e1908214	24	80

89	Stable and Biocompatible Carbon Nanotube Ink Mediated by Silk Protein for Printed Electronics. <i>Advanced Materials</i> , 2020 , 32, e2000165	24	78
88	Splash-Resistant and Light-Weight Silk-Sheathed Wires for Textile Electronics. <i>Nano Letters</i> , 2018 , 18, 7085-7091	11.5	77
87	Fast Growth and Broad Applications of 25-Inch Uniform Graphene Glass. <i>Advanced Materials</i> , 2017 , 29, 1603428	24	75
86	Electrospun polyetherimide electret nonwoven for bi-functional smart face mask. <i>Nano Energy</i> , 2017 , 34, 562-569	17.1	73
85	Laser Writing of Janus Graphene/Kevlar Textile for Intelligent Protective Clothing. <i>ACS Nano</i> , 2020 , 14, 3219-3226	16.7	71
84	In situ fabrication of depth-type hierarchical CNT/quartz fiber filters for high efficiency filtration of sub-micron aerosols and high water repellency. <i>Nanoscale</i> , 2013 , 5, 3367-72	7.7	70
83	Measurement of specific heat and thermal conductivity of supported and suspended graphene by a comprehensive Raman optothermal method. <i>Nanoscale</i> , 2017 , 9, 10784-10793	7.7	68
82	Silk-Derived Highly Active Oxygen Electrocatalysts for Flexible and Rechargeable Zn/Air Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 1023-1029	9.6	65
81	State of the art of single-walled carbon nanotube synthesis on surfaces. <i>Advanced Materials</i> , 2014 , 26, 5898-922	24	60
80	Controlled Synthesis of Ultralong Carbon Nanotubes with Perfect Structures and Extraordinary Properties. <i>Accounts of Chemical Research</i> , 2017 , 50, 179-189	24.3	56
79	Transfer-Medium-Free Nanofiber-Reinforced Graphene Film and Applications in Wearable Transparent Pressure Sensors. <i>ACS Nano</i> , 2019 , 13, 5541-5548	16.7	55
78	Optical visualization of individual ultralong carbon nanotubes by chemical vapour deposition of titanium dioxide nanoparticles. <i>Nature Communications</i> , 2013 , 4, 1727	17.4	54
77	Superelastic EGaIn Composite Fibers Sustaining 500% Tensile Strain with Superior Electrical Conductivity for Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6112-6118	9.5	52
76	Raman Spectra Variation of Partially Suspended Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1983-1987	3.8	48
75	Superelastic wire-shaped supercapacitor sustaining 850% tensile strain based on carbon nanotube@graphene fiber. <i>Nano Research</i> , 2018 , 11, 2347-2356	10	46
74	Epitaxial superconducting EMoN films grown by a chemical solution method. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20735-7	16.4	43
73	Natural Biopolymers for Flexible Sensing and Energy Devices. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 459-490	3.5	41
72	Silk-Derived 2D Porous Carbon Nanosheets with Atomically-Dispersed Fe-N -C Sites for Highly Efficient Oxygen Reaction Catalysts. <i>Small</i> , 2019 , 15, e1804966	11	40

71	Synthesis of three-dimensional carbon nanotube/graphene hybrid materials by a two-step chemical vapor deposition process. <i>Carbon</i> , 2015 , 86, 358-362	10.4	40
70	Temperature Coefficients of Raman Frequency of Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14031-14034	3.8	38
69	Growth of large-area aligned pentagonal graphene domains on high-index copper surfaces. <i>Nano Research</i> , 2016 , 9, 2182-2189	10	38
68	Molybdenum Disulfide Nanosheets Aligned Vertically on Carbonized Silk Fabric as Smart Textile for Wearable Pressure-Sensing and Energy Devices. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11825-11832 ³⁷	9.5	37
67	Semiliquid Metal Enabled Highly Conductive Wearable Electronics for Smart Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30019-30027	9.5	37
66	Laser-Heating Effect on Raman Spectra of Individual Suspended Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1988-1992	3.8	33
65	Electricity-Triggered Self-Healing of Conductive and Thermostable Vitrimer Enabled by Paving Aligned Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14315-14322	9.5	31
64	Spontaneous Alignment of Graphene Oxide in Hydrogel during 3D Printing for Multistimuli-Responsive Actuation. <i>Advanced Science</i> , 2020 , 7, 1903048	13.6	30
63	Microribbons composed of directionally self-assembled nanoflakes as highly stretchable ionic neural electrodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14667-14675	11.5	29
62	Smart Fibers and Textiles for Personal Health Management. <i>ACS Nano</i> , 2021 ,	16.7	29
61	Fast and uniform growth of graphene glass using confined-flow chemical vapor deposition and its unique applications. <i>Nano Research</i> , 2016 , 9, 3048-3055	10	28
60	Interwall Friction and Sliding Behavior of Centimeters Long Double-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2016 , 16, 1367-74	11.5	28
59	"Snowing" Graphene using Microwave Ovens. <i>Advanced Materials</i> , 2018 , 30, e1803189	24	28
58	The reason for the low density of horizontally aligned ultralong carbon nanotube arrays. <i>Carbon</i> , 2013 , 52, 232-238	10.4	25
57	Carbonized Chinese Art Paper-Based High-Performance Wearable Strain Sensor for Human Activity Monitoring. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2415-2421	4	21
56	Hierarchical carbon-nanotube/quartz-fiber films with gradient nanostructures for high efficiency and long service life air filters. <i>RSC Advances</i> , 2014 , 4, 54115-54121	3.7	21
55	Strain and friction induced by van der Waals interaction in individual single walled carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 90, 253113	3.4	21
54	Biomass-Derived Carbon Materials: Controllable Preparation and Versatile Applications. <i>Small</i> , 2021 , 17, e2008079	11	21

53	Multi-walled carbon nanotube-based carbon/carbon composites with three-dimensional network structures. <i>Nanoscale</i> , 2013 , 5, 6181-6	7.7	20
52	Mineral-Templated 3D Graphene Architectures for Energy-Efficient Electrodes. <i>Small</i> , 2018 , 14, e1801009	10.5	19
51	A high efficiency particulate air filter based on agglomerated carbon nanotube fluidized bed. <i>Carbon</i> , 2014 , 79, 424-431	10.4	19
50	A chemical solution approach for superconducting and hard epitaxial NbC film. <i>Chemical Communications</i> , 2010 , 46, 7837-9	5.8	19
49	Calcium Gluconate Derived Carbon Nanosheet Intrinsically Decorated with Nanopapillae for Multifunctional Printed Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20272-20280	9.5	18
48	Preloading catalysts in the reactor for repeated growth of horizontally aligned carbon nanotube arrays. <i>Carbon</i> , 2016 , 98, 157-161	10.4	18
47	Blue rose-inspired approach towards highly graphitic carbons for efficient electrocatalytic water splitting. <i>Carbon</i> , 2019 , 150, 21-26	10.4	17
46	Recyclable and electrically conducting carbon nanotube composite films. <i>Nanoscale</i> , 2010 , 2, 418-22	7.7	17
45	Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909616	15.6	16
44	Sweat-Driven Silk-yarn Switches Enabled by Highly Aligned Gaps for Air-conditioning Textiles. <i>Advanced Fiber Materials</i> , 2019 , 1, 197-204	10.9	16
43	Hollow core-sheath nanocarbon spheres grown on carbonized silk fabrics for self-supported and nonenzymatic glucose sensing. <i>Nanoscale</i> , 2019 , 11, 11856-11863	7.7	15
42	Hydroxyapatite-containing silk fibroin nanofibrous scaffolds for tissue-engineered periosteum. <i>RSC Advances</i> , 2016 , 6, 19463-19474	3.7	15
41	Optical methods for determining thicknesses of few-layer graphene flakes. <i>Nanotechnology</i> , 2013 , 24, 505701	3.4	15
40	Growth of high-density parallel arrays of ultralong carbon nanotubes with catalysts pinned by silica nanospheres. <i>Carbon</i> , 2013 , 52, 535-540	10.4	15
39	Scanning probe lithography for nanoimprinting mould fabrication. <i>Nanotechnology</i> , 2006 , 17, 3018-3022	3.4	15
38	Flexible Electrodes for In Vivo and In Vitro Electrophysiological Signal Recording. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100646	10.1	15
37	A double-layered carbon nanotube array with super-hydrophobicity. <i>Carbon</i> , 2009 , 47, 3332-3336	10.4	14
36	H ₂ O-Etchant-Promoted Synthesis of High-Quality Graphene on Glass and Its Application in See-Through Thermochromic Displays. <i>Small</i> , 2020 , 16, e1905485	11	14

35	Observations of 3 nm Silk Nanofibrils Exfoliated from Natural Silkworm Silk Fibers 2020 , 2, 153-160		14
34	Electronic fibers and textiles: Recent progress and perspective. <i>IScience</i> , 2021 , 24, 102716	6.1	14
33	Volatile-nanoparticle-assisted optical visualization of individual carbon nanotubes and other nanomaterials. <i>Nanoscale</i> , 2016 , 8, 13437-44	7.7	13
32	Efficient synthesis of tailored magnetic carbon nanotubes via a noncovalent chemical route. <i>Nanoscale</i> , 2011 , 3, 668-73	7.7	13
31	Graphene/graphite sheet assisted growth of high-area-density horizontally aligned carbon nanotubes. <i>Chemical Communications</i> , 2014 , 50, 11158-61	5.8	12
30	Visualization of Graphene on Various Substrates Based on Water Wetting Behavior. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500674	4.6	12
29	Facile manipulation of individual carbon nanotubes assisted by inorganic nanoparticles. <i>Nanoscale</i> , 2013 , 5, 6584-8	7.7	11
28	Aligned carbon nanotubes sandwiched in epitaxial NbC film for enhanced superconductivity. <i>Nanoscale</i> , 2012 , 4, 2268-71	7.7	11
27	Electrochemically Enabled Embedded Three-Dimensional Printing of Freestanding Gallium Wire-like Structures. <i>ACS Applied Materials & Interfaces</i> , 2020 ,	9.5	11
26	Vitrimer-based soft actuators with multiple responsiveness and self-healing ability triggered by multiple stimuli. <i>Matter</i> , 2021 ,	12.7	11
25	Thermochemical Hole Burning on DPA(TCNQ)2 and MEM(TCNQ)2 Charge Transfer Complexes Using a Scanning Tunneling Microscope. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14800-14803	3.4	10
24	Fabrication of metallic nanostructures by negative nanoimprint lithography. <i>Nanotechnology</i> , 2005 , 16, 2779-2784	3.4	10
23	Smart semiliquid metal fibers with designed mechanical properties for room temperature stimulus response and liquid welding. <i>Applied Materials Today</i> , 2020 , 20, 100738	6.6	9
22	Application of Resonance Raman Spectroscopy in the Characterization of Single-Walled Carbon Nanotubes. <i>Acta Chimica Sinica</i> , 2012 , 70, 2293	3.3	8
21	Comparative studies of yield strength and elastic compressibility between nanocrystalline and bulk cobalt. <i>Journal of Applied Physics</i> , 2012 , 111, 113506	2.5	7
20	Biomimetic Mechanically Enhanced Carbon Nanotube Fibers by Silk Fibroin Infiltration. <i>Small</i> , 2021 , 17, e2100066	11	7
19	A novel cell-scale bio-nanogenerator based on electron-ion interaction for fast light power conversion. <i>Nanoscale</i> , 2018 , 10, 526-532	7.7	7
18	A One-Step Fabricated Sheath-Core Stretchable Fiber Based on Liquid Metal with Superior Electric Conductivity for Wearable Sensors and Heaters. <i>Advanced Materials Technologies</i> , 2101618	6.8	6

17	Hydrophilic, Breathable, and Washable Graphene Decorated Textile Assisted by Silk Sericin for Integrated Multimodal Smart Wearables. <i>Advanced Functional Materials</i> , 2020, 162	15.6	6
16	Investigation on the Formation Mechanism of Double-Layer Vertically Aligned Carbon Nanotube Arrays via Single-Step Chemical Vapour Deposition. <i>Nano-Micro Letters</i> , 2017, 9, 12	19.5	5
15	Seamless Graphene-Seal-Wrap as a Removable Protective Cover for Two-Dimensional Materials 2020, 2, 215-219		4
14	Scratching of Graphene-Coated Cu Substrates Leads to Hardened Cu Interfaces with Enhanced Lubricity. <i>ACS Applied Nano Materials</i> , 2020, 3, 1992-1998	5.6	4
13	Nanoscale color sensors made on semiconducting multi-wall carbon nanotubes. <i>Nano Research</i> , 2016, 9, 1470-1479	10	4
12	Synthesis and Properties of Ultralong Carbon Nanotubes 2014, 87-136		4
11	Modulus-Tailorable, Stretchable, and Biocompatible Carbonene Fiber for Adaptive Neural Electrode. <i>Advanced Functional Materials</i> , 2017, 27, 2107360	15.6	4
10	Numerical Evaluation and Prediction of Porous Implant Design and Flow Performance. <i>BioMed Research International</i> , 2018, 2018, 1215021	3	4
9	Fabrication of metal suspending nanostructures by nanoimprint lithography (NIL) and isotropic reactive ion etching (RIE). <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1181-1186		3
8	Highly Regulatable Heat Conductance of Graphene/Sericin Hybrid for Responsive Textiles. <i>Advanced Functional Materials</i> , 2017, 27, 111121	15.6	3
7	Sustainable Silk-Derived Multimode Carbon Dots. <i>Small</i> , 2021, 17, e2103623	11	3
6	Epitaxial growth and physical properties of ternary nitride thin films by polymer-assisted deposition. <i>Applied Physics Letters</i> , 2016, 109, 081907	3.4	2
5	Carbothermal shock enabled facile and fast growth of carbon nanotubes in a second. <i>Nano Research</i> , 2017, 10, 1470-1479	10	2
4	Silkworm Silk Fibers with Multiple Reinforced Properties Obtained through Feeding Ag Nanowires. <i>Advanced Fiber Materials</i> , 2017, 1, 1-10	10.9	1
3	Hemodynamic Impact of Stenting on Carotid Bifurcation: A Potential Role of the Stented Segment and External Carotid Artery. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 7604532	2.8	0
2	Concentration gradient induced in situ formation of MOF tubes. <i>Chemical Communications</i> , 2021, 2021, 7300-7303	5.8	0
1	Mechanically Reinforced Silkworm Silk Fiber by Hot Stretching. <i>Research</i> , 2022, 2022, 9854063	7.8	0