

Yingying Zhang

List of Publications by Year in descending order

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126
papers

12,982
citations

26630

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23533

111
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128
all docs

128
docs citations

128
times ranked

12550
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Carbon for Flexible and Wearable Electronics. <i>Advanced Materials</i> , 2019, 31, e1801072.	21.0	779
2	Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors. <i>Advanced Materials</i> , 2016, 28, 6640-6648.	21.0	749
3	Epidermis Microstructure Inspired Graphene Pressure Sensor with Random Distributed Spinosum for High Sensitivity and Large Linearity. <i>ACS Nano</i> , 2018, 12, 2346-2354.	14.6	579
4	Flexible and Highly Sensitive Pressure Sensors Based on Bionic Hierarchical Structures. <i>Advanced Functional Materials</i> , 2017, 27, 1606066.	14.9	522
5	Graphene Textile Strain Sensor with Negative Resistance Variation for Human Motion Detection. <i>ACS Nano</i> , 2018, 12, 9134-9141.	14.6	455
6	Carbonized Silk Nanofiber Membrane for Transparent and Sensitive Electronic Skin. <i>Advanced Functional Materials</i> , 2017, 27, 1605657.	14.9	413
7	Carbonized Cotton Fabric for High-Performance Wearable Strain Sensors. <i>Advanced Functional Materials</i> , 2017, 27, 1604795.	14.9	383
8	Integrated textile sensor patch for real-time and multiplex sweat analysis. <i>Science Advances</i> , 2019, 5, eaax0649.	10.3	345
9	Growth of Half-Meter Long Carbon Nanotubes Based on Schulz-Flory Distribution. <i>ACS Nano</i> , 2013, 7, 6156-6161.	14.6	308
10	Superlubricity in centimetres-long double-walled carbon nanotubes under ambient conditions. <i>Nature Nanotechnology</i> , 2013, 8, 912-916.	31.5	305
11	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, 4543-4561.	10.0	279
12	Polymer-Embedded Carbon Nanotube Ribbons for Stretchable Conductors. <i>Advanced Materials</i> , 2010, 22, 3027-3031.	21.0	277
13	Extremely Black Vertically Aligned Carbon Nanotube Arrays for Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28596-28603.	8.0	270
14	Multilayer Graphene Epidermal Electronic Skin. <i>ACS Nano</i> , 2018, 12, 8839-8846.	14.6	257
15	Self-Healable Multifunctional Electronic Tattoos Based on Silk and Graphene. <i>Advanced Functional Materials</i> , 2019, 29, 1808695.	14.9	236
16	Silk-Based Advanced Materials for Soft Electronics. <i>Accounts of Chemical Research</i> , 2019, 52, 2916-2927.	15.6	232
17	An All-Silk-Derived Dual-Mode E-skin for Simultaneous Temperature-Pressure Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39484-39492.	8.0	210
18	Carbon nanotube yarn strain sensors. <i>Nanotechnology</i> , 2010, 21, 305502.	2.6	201

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19	Sheath-Core Graphite/Silk Fiber Made by Dry-Meyer-Rod-Coating for Wearable Strain Sensors. ACS Applied Materials & Interfaces, 2016, 8, 20894-20899.	8.0	196
20	CVD growth of fingerprint-like patterned 3D graphene film for an ultrasensitive pressure sensor. Nano Research, 2018, 11, 1124-1134.	10.4	185
21	Stable and Biocompatible Carbon Nanotube Ink Mediated by Silk Protein for Printed Electronics. Advanced Materials, 2020, 32, e2000165.	21.0	184
22	Silk nanofibers as high efficient and lightweight air filter. Nano Research, 2016, 9, 2590-2597.	10.4	181
23	Printable Smart Pattern for Multifunctional Energy-Management E-Textile. Matter, 2019, 1, 168-179.	10.0	172
24	Feeding Single-Walled Carbon Nanotubes or Graphene to Silkworms for Reinforced Silk Fibers. Nano Letters, 2016, 16, 6695-6700.	9.1	171
25	Advanced carbon materials for flexible and wearable sensors. Science China Materials, 2017, 60, 1026-1062.	6.3	170
26	Physical sensors for skin-inspired electronics. Informa-Materially, 2020, 2, 184-211.	17.3	159
27	Laser Writing of Janus Graphene/Kevlar Textile for Intelligent Protective Clothing. ACS Nano, 2020, 14, 3219-3226.	14.6	159
28	Horizontally aligned carbon nanotube arrays: growth mechanism, controlled synthesis, characterization, properties and applications. Chemical Society Reviews, 2017, 46, 3661-3715.	38.1	153
29	Integration of Stiff Graphene and Tough Silk for the Design and Fabrication of Versatile Electronic Materials. Advanced Functional Materials, 2018, 28, 1705291.	14.9	148
30	Carbonized silk georgette as an ultrasensitive wearable strain sensor for full-range human activity monitoring. Journal of Materials Chemistry C, 2017, 5, 7604-7611.	5.5	147
31	Bioinspired Fluffy Fabric with In Situ Grown Carbon Nanotubes for Ultrasensitive Wearable Airflow Sensor. Advanced Materials, 2020, 32, e1908214.	21.0	146
32	Weft-Knitted Fabric for a Highly Stretchable and Low-Voltage Wearable Heater. Advanced Electronic Materials, 2017, 3, 1700193.	5.1	133
33	Smart Fibers and Textiles for Personal Health Management. ACS Nano, 2021, 15, 12497-12508.	14.6	124
34	Electrospun polyetherimide electret nonwoven for bi-functional smart face mask. Nano Energy, 2017, 34, 562-569.	16.0	119
35	Producing superior composites by winding carbon nanotubes onto a mandrel under a poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10.3 114	10.3	114
36	Superelastic EGaln Composite Fibers Sustaining 500% Tensile Strain with Superior Electrical Conductivity for Wearable Electronics. ACS Applied Materials & Interfaces, 2020, 12, 6112-6118.	8.0	113

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37	Intrinsically Stretchable and Conductive Textile by a Scalable Process for Elastic Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13331-13338.	8.0	111
38	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.	5.6	110
39	Biomass-Derived Carbon Materials: Controllable Preparation and Versatile Applications. <i>Small</i> , 2021, 17, e2008079.	10.0	105
40	Substrate-Induced Raman Frequency Variation for Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2005, 127, 17156-17157.	13.7	103
41	Splash-Resistant and Light-Weight Silk-Sheathed Wires for Textile Electronics. <i>Nano Letters</i> , 2018, 18, 7085-7091.	9.1	98
42	Tailoring the Morphology of Carbon Nanotube Arrays: From Spinnable Forests to Undulating Foams. <i>ACS Nano</i> , 2009, 3, 2157-2162.	14.6	96
43	Transfer-Medium-Free Nanofiber-Reinforced Graphene Film and Applications in Wearable Transparent Pressure Sensors. <i>ACS Nano</i> , 2019, 13, 5541-5548.	14.6	96
44	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.	19.5	90
45	Fast Growth and Broad Applications of 25- μ m Uniform Graphene Glass. <i>Advanced Materials</i> , 2017, 29, 1603428.	21.0	90
46	Silk-Derived Highly Active Oxygen Electrocatalysts for Flexible and Rechargeable Zn-Air Batteries. <i>Chemistry of Materials</i> , 2019, 31, 1023-1029.	6.7	84
47	Controlled Synthesis of Ultralong Carbon Nanotubes with Perfect Structures and Extraordinary Properties. <i>Accounts of Chemical Research</i> , 2017, 50, 179-189.	15.6	83
48	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.	5.6	82
49	Morphology engineering processed nanofibrous membranes with secondary structure for high-performance air filtration. <i>Separation and Purification Technology</i> , 2022, 294, 121093.	7.9	80
50	State of the Art of Single-Walled Carbon Nanotube Synthesis on Surfaces. <i>Advanced Materials</i> , 2014, 26, 5898-5922.	21.0	71
51	Superelastic wire-shaped supercapacitor sustaining 850% tensile strain based on carbon nanotube-graphene fiber. <i>Nano Research</i> , 2018, 11, 2347-2356.	10.4	70
52	Natural Biopolymers for Flexible Sensing and Energy Devices. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 459-490.	3.8	69
53	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.	8.0	67
54	Semiliquid Metal Enabled Highly Conductive Wearable Electronics for Smart Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30019-30027.	8.0	65

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55	Silk-Derived 2D Porous Carbon Nanosheets with Atomically Dispersed Fe Sites for Highly Efficient Oxygen Reaction Catalysts. <i>Small</i> , 2019, 15, e1804966.	10.0	64
56	Flexible Electrodes for In Vivo and In Vitro Electrophysiological Signal Recording. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100646.	7.6	62
57	Optical visualization of individual ultralong carbon nanotubes by chemical vapour deposition of titanium dioxide nanoparticles. <i>Nature Communications</i> , 2013, 4, 1727.	12.8	60
58	Electricity-Triggered Self-Healing of Conductive and Thermostable Vitriimer Enabled by Paving Aligned Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14315-14322.	8.0	60
59	Electronic fibers and textiles: Recent progress and perspective. <i>IScience</i> , 2021, 24, 102716.	4.1	60
60	Superior Unidirectional Water Transport and Mechanically Stable 3D Orthogonal Woven Fabric for Human Body Moisture and Thermal Management. <i>Small</i> , 2022, 18, e2107150.	10.0	54
61	Hydrophilic, Breathable, and Washable Graphene Decorated Textile Assisted by Silk Sericin for Integrated Multimodal Smart Wearables. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	54
62	Raman Spectra Variation of Partially Suspended Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1983-1987.	3.1	51
63	Spontaneous Alignment of Graphene Oxide in Hydrogel during 3D Printing for Multistimuli-Responsive Actuation. <i>Advanced Science</i> , 2020, 7, 1903048.	11.2	51
64	Synthesis of three-dimensional carbon nanotube/graphene hybrid materials by a two-step chemical vapor deposition process. <i>Carbon</i> , 2015, 86, 358-362.	10.3	50
65	Epitaxial Superconducting $\hat{\Gamma}$ -MoN Films Grown by a Chemical Solution Method. <i>Journal of the American Chemical Society</i> , 2011, 133, 20735-20737.	13.7	48
66	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.	7.1	48
67	Liquid-Crystal-Elastomer-Actuated Reconfigurable Microscale Kirigami Metastructures. <i>Advanced Materials</i> , 2021, 33, e2008605.	21.0	48
68	“Snowing” Graphene using Microwave Ovens. <i>Advanced Materials</i> , 2018, 30, e1803189.	21.0	47
69	Temperature Coefficients of Raman Frequency of Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14031-14034.	3.1	44
70	Growth of large-area aligned pentagonal graphene domains on high-index copper surfaces. <i>Nano Research</i> , 2016, 9, 2182-2189.	10.4	44
71	Carbonized Chinese Art Paper-Based High-Performance Wearable Strain Sensor for Human Activity Monitoring. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2415-2421.	4.3	38
72	Vitriimer-based soft actuators with multiple responsiveness and self-healing ability triggered by multiple stimuli. <i>Matter</i> , 2021, 4, 3354-3365.	10.0	38

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73	Observations of 3 nm Silk Nanofibrils Exfoliated from Natural Silkworm Silk Fibers. , 2020, 2, 153-160.		37
74	Laser-Heating Effect on Raman Spectra of Individual Suspended Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2007, 111, 1988-1992.	3.1	36
75	Interwall Friction and Sliding Behavior of Centimeters Long Double-Walled Carbon Nanotubes. Nano Letters, 2016, 16, 1367-1374.	9.1	36
76	A One-Step Fabricated Sheath-Core Stretchable Fiber Based on Liquid Metal with Superior Electric Conductivity for Wearable Sensors and Heaters. Advanced Materials Technologies, 2022, 7, .	5.8	36
77	Hollow core-sheath nanocarbon spheres grown on carbonized silk fabrics for self-supported and nonenzymatic glucose sensing. Nanoscale, 2019, 11, 11856-11863.	5.6	33
78	Sweat-Driven Silk-yarn Switches Enabled by Highly Aligned Gaps for Air-conditioning Textiles. Advanced Fiber Materials, 2019, 1, 197-204.	16.1	33
79	Fast and uniform growth of graphene glass using confined-flow chemical vapor deposition and its unique applications. Nano Research, 2016, 9, 3048-3055.	10.4	32
80	Blue rose-inspired approach towards highly graphitic carbons for efficient electrocatalytic water splitting. Carbon, 2019, 150, 21-26.	10.3	30
81	Electrochemically Enabled Embedded Three-Dimensional Printing of Freestanding Gallium Wire-like Structures. ACS Applied Materials & Interfaces, 2020, 12, 53966-53972.	8.0	30
82	Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications. Advanced Functional Materials, 2020, 30, 1909616.	14.9	29
83	Hierarchical carbon-nanotube/quartz-fiber films with gradient nanostructures for high efficiency and long service life air filters. RSC Advances, 2014, 4, 54115-54121.	3.6	28
84	The reason for the low density of horizontally aligned ultralong carbon nanotube arrays. Carbon, 2013, 52, 232-238.	10.3	27
85	Smart semiliquid metal fibers with designed mechanical properties for room temperature stimulus response and liquid welding. Applied Materials Today, 2020, 20, 100738.	4.3	26
86	A high efficiency particulate air filter based on agglomerated carbon nanotube fluidized bed. Carbon, 2014, 79, 424-431.	10.3	25
87	Calcium Gluconate Derived Carbon Nanosheet Intrinsically Decorated with Nanopapillae for Multifunctional Printed Flexible Electronics. ACS Applied Materials & Interfaces, 2019, 11, 20272-20280.	8.0	25
88	Strain and friction induced by van der Waals interaction in individual single walled carbon nanotubes. Applied Physics Letters, 2007, 90, 253113.	3.3	22
89	Preloading catalysts in the reactor for repeated growth of horizontally aligned carbon nanotube arrays. Carbon, 2016, 98, 157-161.	10.3	21
90	Mineral-Templated 3D Graphene Architectures for Energy-Efficient Electrodes. Small, 2018, 14, e1801009.	10.0	21

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91	Biomimetic Mechanically Enhanced Carbon Nanotube Fibers by Silk Fibroin Infiltration. <i>Small</i> , 2021, 17, e2100066.	10.0	21
92	Sustainable Silk-Derived Multimode Carbon Dots. <i>Small</i> , 2021, 17, e2103623.	10.0	21
93	Highly Regulatable Heat Conductance of Graphene-Sericin Hybrid for Responsive Textiles. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	21
94	H ₂ O ₂ -Etchant-Promoted Synthesis of High-Quality Graphene on Glass and Its Application in See-Through Thermochromic Displays. <i>Small</i> , 2020, 16, e1905485.	10.0	20
95	A novel preparation of anti-layered poly(vinylalcohol)-polyacrylonitrile (PVA/PAN) membrane for air filtration by electrospinning. <i>RSC Advances</i> , 2016, 6, 85545-85550.	3.6	19
96	Growth of high-density parallel arrays of ultralong carbon nanotubes with catalysts pinned by silica nanospheres. <i>Carbon</i> , 2013, 52, 535-540.	10.3	17
97	Wearable Strain Sensors: Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors (<i>Adv. Mater.</i> 31/2016). <i>Advanced Materials</i> , 2016, 28, 6639-6639.	21.0	17
98	One-Step Growth of Graphene/Carbon Nanotube Hybrid Films on Soda-Lime Glass for Transparent Conducting Applications. <i>Advanced Electronic Materials</i> , 2017, 3, 1700212.	5.1	17
99	A double-layered carbon nanotube array with super-hydrophobicity. <i>Carbon</i> , 2009, 47, 3332-3336.	10.3	16
100	Volatile-nanoparticle-assisted optical visualization of individual carbon nanotubes and other nanomaterials. <i>Nanoscale</i> , 2016, 8, 13437-13444.	5.6	15
101	Modulus-Tailorable, Stretchable, and Biocompatible Carbonene Fiber for Adaptive Neural Electrode. <i>Advanced Functional Materials</i> , 2022, 32, 2107360.	14.9	15
102	Silkworm Silk Fibers with Multiple Reinforced Properties Obtained through Feeding Ag Nanowires. <i>Advanced Fiber Materials</i> , 2022, 4, 547-555.	16.1	15
103	Efficient synthesis of tailored magnetic carbon nanotubes via a noncovalent chemical route. <i>Nanoscale</i> , 2011, 3, 668-673.	5.6	14
104	Graphene/graphite sheet assisted growth of high-area-density horizontally aligned carbon nanotubes. <i>Chemical Communications</i> , 2014, 50, 11158-11161.	4.1	14
105	Visualization of Graphene on Various Substrates Based on Water Wetting Behavior. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500674.	3.7	14
106	Micro/nano processing of natural silk fibers with near-field enhanced ultrafast laser. <i>Science China Materials</i> , 2020, 63, 1300-1309.	6.3	13
107	Facile manipulation of individual carbon nanotubes assisted by inorganic nanoparticles. <i>Nanoscale</i> , 2013, 5, 6584.	5.6	12
108	Aligned carbon nanotubes sandwiched in epitaxial NbC film for enhanced superconductivity. <i>Nanoscale</i> , 2012, 4, 2268.	5.6	11

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109	Carbothermal shock enabled facile and fast growth of carbon nanotubes in a second. Nano Research, 2022, 15, 2576-2581.	10.4	11
110	Thermochemical Hole Burning on DPA(TCNQ) ₂ and MEM(TCNQ) ₂ Charge Transfer Complexes Using a Scanning Tunneling Microscope. Journal of Physical Chemistry B, 2004, 108, 14800-14803.	2.6	10
111	A novel cell-scale bio-nanogenerator based on electron-ion interaction for fast light power conversion. Nanoscale, 2018, 10, 526-532.	5.6	10
112	Application of Resonance Raman Spectroscopy in the Characterization of Single-Walled Carbon Nanotubes. Acta Chimica Sinica, 2012, 70, 2293.	1.4	9
113	Extensible and self-recoverable proteinaceous materials derived from scallop byssal thread. Nature Communications, 2022, 13, 2731.	12.8	8
114	Investigation on the Formation Mechanism of Double-Layer Vertically Aligned Carbon Nanotube Arrays via Single-Step Chemical Vapour Deposition. Nano-Micro Letters, 2017, 9, 12.	27.0	7
115	Synthesis and Properties of Ultralong Carbon Nanotubes. , 2014, , 87-136.		6
116	Nanoscale color sensors made on semiconducting multi-wall carbon nanotubes. Nano Research, 2016, 9, 1470-1479.	10.4	6
117	Seamless Graphene-Seal-Wrap as a Removable Protective Cover for Two-Dimensional Materials. , 2020, 2, 215-219.		6
118	Scratching of Graphene-Coated Cu Substrates Leads to Hardened Cu Interfaces with Enhanced Lubricity. ACS Applied Nano Materials, 2020, 3, 1992-1998.	5.0	6
119	Display textiles: illuminating the way we live. Science China Chemistry, 2021, 64, 1115-1116.	8.2	5
120	Mechanically Reinforced Silkworm Silk Fiber by Hot Stretching. Research, 2022, 2022, 9854063.	5.7	5
121	Fabrication of metal suspending nanostructures by nanoimprint lithography (NIL) and isotropic reactive ion etching (RIE). Science in China Series D: Earth Sciences, 2009, 52, 1181-1186.	0.9	4
122	Epitaxial growth and physical properties of ternary nitride thin films by polymer-assisted deposition. Applied Physics Letters, 2016, 109, 081907.	3.3	2
123	Superior Unidirectional Water Transport and Mechanically Stable 3D Orthogonal Woven Fabric for Human Body Moisture and Thermal Management (Small 10/2022). Small, 2022, 18, .	10.0	2
124	Ionic Sensing Hydrogels: Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications (Adv. Funct. Mater. 12/2020). Advanced Functional Materials, 2020, 30, 2070080.	14.9	1
125	Wearable Electronics: Weft-Knitted Fabric for a Highly Stretchable and Low-Voltage Wearable Heater (Adv. Electron. Mater. 9/2017). Advanced Electronic Materials, 2017, 3, .	5.1	0
126	Kirigami Metastructures: Liquid-Crystal-Elastomer-Actuated Reconfigurable Microscale Kirigami Metastructures (Adv. Mater. 25/2021). Advanced Materials, 2021, 33, 2170195.	21.0	0