Chunya Wang

List of Publications by Year
in descending order

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47	7,597	87888 38	233421 45
papers	citations	h-index	g-index

47	47	47	7797
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advanced Carbon for Flexible and Wearable Electronics. Advanced Materials, 2019, 31, e1801072.	21.0	779
2	Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors. Advanced Materials, 2016, 28, 6640-6648.	21.0	749
3	Flexible and Highly Sensitive Pressure Sensors Based on Bionic Hierarchical Structures. Advanced Functional Materials, 2017, 27, 1606066.	14.9	522
4	Carbonized Silk Nanofiber Membrane for Transparent and Sensitive Electronic Skin. Advanced Functional Materials, 2017, 27, 1605657.	14.9	413
5	Carbonized Cotton Fabric for Highâ€Performance Wearable Strain Sensors. Advanced Functional Materials, 2017, 27, 1604795.	14.9	383
6	Integrated textile sensor patch for real-time and multiplex sweat analysis. Science Advances, 2019, 5, eaax0649.	10.3	345
7	Air Filtration in the Free Molecular Flow Regime: A Review of Highâ€Efficiency Particulate Air Filters Based on Carbon Nanotubes. Small, 2014, 10, 4543-4561.	10.0	279
8	Extremely Black Vertically Aligned Carbon Nanotube Arrays for Solar Steam Generation. ACS Applied Materials & Interfaces, 2017, 9, 28596-28603.	8.0	270
9	Silk-Based Advanced Materials for Soft Electronics. Accounts of Chemical Research, 2019, 52, 2916-2927.	15.6	232
10	An All-Silk-Derived Dual-Mode E-skin for Simultaneous Temperatureâ€“Pressure Detection. ACS Applied Materials & Interfaces, 2017, 9, 39484-39492.	8.0	210
11	Natural Biopolymer-Based Biocompatible Conductors for Stretchable Bioelectronics. Chemical Reviews, 2021, 121, 2109-2146.	47.7	199
12	Sheathâ€“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
13	CVD growth of fingerprint-like patterned 3D graphene film for an ultrasensitive pressure sensor. Nano Research, 2018, 11, 1124-1134.	10.4	185
14	Stable and Biocompatible Carbon Nanotube Ink Mediated by Silk Protein for Printed Electronics. Advanced Materials, 2020, 32, e2000165.	21.0	184
15	Silk nanofibers as high efficient and lightweight air filter. Nano Research, 2016, 9, 2590-2597.	10.4	181
16	Printable Smart Pattern for Multifunctional Energy-Management E-Textile. Matter, 2019, 1, 168-179.	10.0	172
17	Feeding Single-Walled Carbon Nanotubes or Graphene to Silkworms for Reinforced Silk Fibers. Nano Letters, 2016, 16, 6695-6700.	9.1	171
18	Advanced carbon materials for flexible and wearable sensors. Science China Materials, 2017, 60, 1026-1062.	6.3	170

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19	Physical sensors for skinâ€inspired electronics. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 184-211.	17.3	159
20	Laser Writing of Janus Graphene/Kevlar Textile for Intelligent Protective Clothing. ACS Nano, 2020, 14, 3219-3226.	14.6	159
21	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
22	Weftâ€Knitted Fabric for a Highly Stretchable and Lowâ€Voltage Wearable Heater. Advanced Electronic Materials, 2017, 3, 1700193.	5.1	133
23	Smart Fibers and Textiles for Personal Health Management. ACS Nano, 2021, 15, 12497-12508.	14.6	124
24	Electrospun polyetherimide electret nonwoven for bi-functional smart face mask. Nano Energy, 2017, 34, 562-569.	16.0	119
25	Intrinsically Stretchable and Conductive Textile by a Scalable Process for Elastic Wearable Electronics. ACS Applied Materials & Interfaces, 2017, 9, 13331-13338.	8.0	111
26	Splash-Resistant and Light-Weight Silk-Sheathed Wires for Textile Electronics. Nano Letters, 2018, 18, 7085-7091.	9.1	98
27	Skin bioelectronics towards long-term, continuous health monitoring. Chemical Society Reviews, 2022, 51, 3759-3793.	38.1	85
28	Silk-Derived Highly Active Oxygen Electrocatalysts for Flexible and Rechargeable Znâ€“Air Batteries. Chemistry of Materials, 2019, 31, 1023-1029.	6.7	84
29	Superelastic wire-shaped supercapacitor sustaining 850% tensile strain based on carbon nanotube@graphene fiber. Nano Research, 2018, 11, 2347-2356.	10.4	70
30	Natural Biopolymers for Flexible Sensing and Energy Devices. Chinese Journal of Polymer Science (English Edition), 2020, 38, 459-490.	3.8	69
31	Molybdenum Disulfide Nanosheets Aligned Vertically on Carbonized Silk Fabric as Smart Textile for Wearable Pressure-Sensing and Energy Devices. ACS Applied Materials & Interfaces, 2020, 12, 11825-11832.	8.0	67
32	Silkâ€Derived 2D Porous Carbon Nanosheets with Atomicallyâ€Dispersed Feâ€N_xâ€C Sites for Highly Efficient Oxygen Reaction Catalysts. Small, 2019, 15, e1804966.	10.0	64
33	Electronic fibers and textiles: Recent progress and perspective. IScience, 2021, 24, 102716.	4.1	60
34	On-skin paintable biogel for long-term high-fidelity electroencephalogram recording. Science Advances, 2022, 8, .	10.3	58
35	Robust, self-adhesive, reinforced polymeric nanofilms enabling gas-permeable dry electrodes for long-term application. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	57
36	Spontaneous Alignment of Graphene Oxide in Hydrogel during 3D Printing for Multistimuliâ€Responsive Actuation. Advanced Science, 2020, 7, 1903048.	11.2	51

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37	Synthesis of three-dimensional carbon nanotube/graphene hybrid materials by a two-step chemical vapor deposition process. Carbon, 2015, 86, 358-362.	10.3	50
38	Carbonized Chinese Art Paper-Based High-Performance Wearable Strain Sensor for Human Activity Monitoring. ACS Applied Electronic Materials, 2019, 1, 2415-2421.	4.3	38
39	Hollow coreâ€“sheath nanocarbon spheres grown on carbonized silk fabrics for self-supported and nonenzymatic glucose sensing. Nanoscale, 2019, 11, 11856-11863.	5.6	33
40	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
41	A high efficiency particulate air filter based on agglomerated carbon nanotube fluidized bed. Carbon, 2014, 79, 424-431.	10.3	25
42	Mineralâ€Templated 3D Graphene Architectures for Energyâ€Efficient Electrodes. Small, 2018, 14, e1801009.	10.0	21
43	Wearable Strain Sensors: Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors (Adv. Mater. 31/2016). Advanced Materials, 2016, 28, 6639-6639.	21.0	17
44	Graphene/graphite sheet assisted growth of high-areal-density horizontally aligned carbon nanotubes. Chemical Communications, 2014, 50, 11158-11161.	4.1	14
45	Antimicrobial second skin using copper nanomesh. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	10
46	Seamless Graphene-Seal-Wrap as a Removable Protective Cover for Two-Dimensional Materials. , 2020, 2, 215-219.		6
47	Wearable Electronics: Weftâ€Knitted Fabric for a Highly Stretchable and Lowâ€Voltage Wearable Heater (Adv. Electron. Mater. 9/2017). Advanced Electronic Materials, 2017, 3, .	5.1	0