

Chunya Wang

List of Publications by Year in descending order

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47
papers

7,597
citations

87723

38
h-index

233125

45
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47
all docs

47
docs citations

47
times ranked

7797
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Carbon for Flexible and Wearable Electronics. <i>Advanced Materials</i> , 2019, 31, e1801072.	11.1	779
2	Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors. <i>Advanced Materials</i> , 2016, 28, 6640-6648.	11.1	749
3	Flexible and Highly Sensitive Pressure Sensors Based on Bionic Hierarchical Structures. <i>Advanced Functional Materials</i> , 2017, 27, 1606066.	7.8	522
4	Carbonized Silk Nanofiber Membrane for Transparent and Sensitive Electronic Skin. <i>Advanced Functional Materials</i> , 2017, 27, 1605657.	7.8	413
5	Carbonized Cotton Fabric for High-Performance Wearable Strain Sensors. <i>Advanced Functional Materials</i> , 2017, 27, 1604795.	7.8	383
6	Integrated textile sensor patch for real-time and multiplex sweat analysis. <i>Science Advances</i> , 2019, 5, eaax0649.	4.7	345
7	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.	5.2	279
8	Extremely Black Vertically Aligned Carbon Nanotube Arrays for Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28596-28603.	4.0	270
9	Silk-Based Advanced Materials for Soft Electronics. <i>Accounts of Chemical Research</i> , 2019, 52, 2916-2927.	7.6	232
10	An All-Silk-Derived Dual-Mode E-skin for Simultaneous Temperature-Pressure Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39484-39492.	4.0	210
11	Natural Biopolymer-Based Biocompatible Conductors for Stretchable Bioelectronics. <i>Chemical Reviews</i> , 2021, 121, 2109-2146.	23.0	199
12	Sheath-Core Graphite/Silk Fiber Made by Dry-Meyer-Rod-Coating for Wearable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20894-20899.	4.0	196
13	CVD growth of fingerprint-like patterned 3D graphene film for an ultrasensitive pressure sensor. <i>Nano Research</i> , 2018, 11, 1124-1134.	5.8	185
14	Stable and Biocompatible Carbon Nanotube Ink Mediated by Silk Protein for Printed Electronics. <i>Advanced Materials</i> , 2020, 32, e2000165.	11.1	184
15	Silk nanofibers as high efficient and lightweight air filter. <i>Nano Research</i> , 2016, 9, 2590-2597.	5.8	181
16	Printable Smart Pattern for Multifunctional Energy-Management E-Textile. <i>Matter</i> , 2019, 1, 168-179.	5.0	172
17	Feeding Single-Walled Carbon Nanotubes or Graphene to Silkworms for Reinforced Silk Fibers. <i>Nano Letters</i> , 2016, 16, 6695-6700.	4.5	171
18	Advanced carbon materials for flexible and wearable sensors. <i>Science China Materials</i> , 2017, 60, 1026-1062.	3.5	170

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19	Physical sensors for skin-inspired electronics. <i>Informa-Materials</i> , 2020, 2, 184-211.	8.5	159
20	Laser Writing of Janus Graphene/Kevlar Textile for Intelligent Protective Clothing. <i>ACS Nano</i> , 2020, 14, 3219-3226.	7.3	159
21	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.	2.7	147
22	Weft-Knitted Fabric for a Highly Stretchable and Low-Voltage Wearable Heater. <i>Advanced Electronic Materials</i> , 2017, 3, 1700193.	2.6	133
23	Smart Fibers and Textiles for Personal Health Management. <i>ACS Nano</i> , 2021, 15, 12497-12508.	7.3	124
24	Electrospun polyetherimide electret nonwoven for bi-functional smart face mask. <i>Nano Energy</i> , 2017, 34, 562-569.	8.2	119
25	Intrinsically Stretchable and Conductive Textile by a Scalable Process for Elastic Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13331-13338.	4.0	111
26	Splash-Resistant and Light-Weight Silk-Sheathed Wires for Textile Electronics. <i>Nano Letters</i> , 2018, 18, 7085-7091.	4.5	98
27	Skin bioelectronics towards long-term, continuous health monitoring. <i>Chemical Society Reviews</i> , 2022, 51, 3759-3793.	18.7	85
28	Silk-Derived Highly Active Oxygen Electrocatalysts for Flexible and Rechargeable Zn-Air Batteries. <i>Chemistry of Materials</i> , 2019, 31, 1023-1029.	3.2	84
29	Superelastic wire-shaped supercapacitor sustaining 850% tensile strain based on carbon nanotube@graphene fiber. <i>Nano Research</i> , 2018, 11, 2347-2356.	5.8	70
30	Natural Biopolymers for Flexible Sensing and Energy Devices. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 459-490.	2.0	69
31	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.	4.0	67
32	Silk-Derived 2D Porous Carbon Nanosheets with Atomically Dispersed Fe Sites for Highly Efficient Oxygen Reaction Catalysts. <i>Small</i> , 2019, 15, e1804966.	5.2	64
33	Electronic fibers and textiles: Recent progress and perspective. <i>IScience</i> , 2021, 24, 102716.	1.9	60
34	On-skin paintable biogel for long-term high-fidelity electroencephalogram recording. <i>Science Advances</i> , 2022, 8, .	4.7	58
35	Robust, self-adhesive, reinforced polymeric nanofilms enabling gas-permeable dry electrodes for long-term application. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	57
36	Spontaneous Alignment of Graphene Oxide in Hydrogel during 3D Printing for Multistimuli-Responsive Actuation. <i>Advanced Science</i> , 2020, 7, 1903048.	5.6	51

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37	Synthesis of three-dimensional carbon nanotube/graphene hybrid materials by a two-step chemical vapor deposition process. <i>Carbon</i> , 2015, 86, 358-362.	5.4	50
38	Carbonized Chinese Art Paper-Based High-Performance Wearable Strain Sensor for Human Activity Monitoring. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2415-2421.	2.0	38
39	Hollow core“sheath nanocarbon spheres grown on carbonized silk fabrics for self-supported and nonenzymatic glucose sensing. <i>Nanoscale</i> , 2019, 11, 11856-11863.	2.8	33
40	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.	1.7	28
41	A high efficiency particulate air filter based on agglomerated carbon nanotube fluidized bed. <i>Carbon</i> , 2014, 79, 424-431.	5.4	25
42	Mineral“Templated 3D Graphene Architectures for Energy“Efficient Electrodes. <i>Small</i> , 2018, 14, e1801009.	5.2	21
43	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.	11.1	17
44	Graphene/graphite sheet assisted growth of high-areal-density horizontally aligned carbon nanotubes. <i>Chemical Communications</i> , 2014, 50, 11158-11161.	2.2	14
45	Antimicrobial second skin using copper nanomesh. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	10
46	Seamless Graphene-Seal-Wrap as a Removable Protective Cover for Two-Dimensional Materials. , 2020, 2, 215-219.		6
47	Wearable Electronics: Weft“Knitted Fabric for a Highly Stretchable and Low“Voltage Wearable Heater (<i>Adv. Electron. Mater.</i> 9/2017). <i>Advanced Electronic Materials</i> , 2017, 3, .	2.6	0