

# Chunya Wang

## List of Publications by Citations

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43  
papers

4,818  
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31  
h-index

47  
g-index

47  
ext. papers

6,131  
ext. citations

14.2  
avg, IF

6.18  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 43 | Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors. <i>Advanced Materials</i> , <b>2016</b> , 28, 6640-8                                     | 24   | 584       |
| 42 | Advanced Carbon for Flexible and Wearable Electronics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1801072  | 24   | 458       |
| 41 | Flexible and Highly Sensitive Pressure Sensors Based on Bionic Hierarchical Structures. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606066                             | 15.6 | 372       |
| 40 | Carbonized Cotton Fabric for High-Performance Wearable Strain Sensors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604795  | 15.6 | 296       |
| 39 | Carbonized Silk Nanofiber Membrane for Transparent and Sensitive Electronic Skin. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605657                                   | 15.6 | 293       |
| 38 | Extremely Black Vertically Aligned Carbon Nanotube Arrays for Solar Steam Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 28596-28603                   | 9.5  | 192       |
| 37 | Air filtration in the free molecular flow regime: a review of high-efficiency particulate air filters based on carbon nanotubes. <i>Small</i> , <b>2014</b> , 10, 4543-61            | 11   | 189       |
| 36 | Integrated textile sensor patch for real-time and multiplex sweat analysis. <i>Science Advances</i> , <b>2019</b> , 5, eaax0649  | 14.3 | 183       |
| 35 | An All-Silk-Derived Dual-Mode E-skin for Simultaneous Temperature-Pressure Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39484-39492                   | 9.5  | 151       |
| 34 | Sheath-Core Graphite/Silk Fiber Made by Dry-Meyer-Rod-Coating for Wearable Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20894-9                  | 9.5  | 146       |
| 33 | Silk nanofibers as high efficient and lightweight air filter. <i>Nano Research</i> , <b>2016</b> , 9, 2590-2597  | 10   | 135       |
| 32 | CVD growth of fingerprint-like patterned 3D graphene film for an ultrasensitive pressure sensor. <i>Nano Research</i> , <b>2018</b> , 11, 1124-1134                                  | 10   | 132       |
| 31 | Feeding Single-Walled Carbon Nanotubes or Graphene to Silkworms for Reinforced Silk Fibers. <i>Nano Letters</i> , <b>2016</b> , 16, 6695-6700  | 11.5 | 129       |
| 30 | Silk-Based Advanced Materials for Soft Electronics. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 2916-2927   | 24.3 | 128       |
| 29 | Carbonized silk georgette as an ultrasensitive wearable strain sensor for full-range human activity monitoring. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7604-7611 | 7.1  | 111       |
| 28 | Advanced carbon materials for flexible and wearable sensors. <i>Science China Materials</i> , <b>2017</b> , 60, 1026-1062  | 10.2 | 108       |
| 27 | Weft-Knitted Fabric for a Highly Stretchable and Low-Voltage Wearable Heater. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700193  | 6.4  | 95        |

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| 26 | Printable Smart Pattern for Multifunctional Energy-Management E-Textile. <i>Matter</i> , <b>2019</b> , 1, 168-179   | 12.7 | 92 |
| 25 | Intrinsically Stretchable and Conductive Textile by a Scalable Process for Elastic Wearable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 13331-13338   | 9.5  | 84 |
| 24 | Physical sensors for skin-inspired electronics. <i>Information Materials</i> , <b>2020</b> , 2, 184-211   | 23.1 | 80 |
| 23 | Stable and Biocompatible Carbon Nanotube Ink Mediated by Silk Protein for Printed Electronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000165   | 24   | 78 |
| 22 | Splash-Resistant and Light-Weight Silk-Sheathed Wires for Textile Electronics. <i>Nano Letters</i> , <b>2018</b> , 18, 7085-7091  | 11.5 | 77 |
| 21 | Electrospun polyetherimide electret nonwoven for bi-functional smart face mask. <i>Nano Energy</i> , <b>2017</b> , 34, 562-569  | 17.1 | 73 |
| 20 | Laser Writing of Janus Graphene/Kevlar Textile for Intelligent Protective Clothing. <i>ACS Nano</i> , <b>2020</b> , 14, 3219-3226   | 16.7 | 71 |
| 19 | Silk-Derived Highly Active Oxygen Electrocatalysts for Flexible and Rechargeable Zn/Air Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1023-1029  | 9.6  | 65 |
| 18 | Natural Biopolymer-Based Biocompatible Conductors for Stretchable Bioelectronics. <i>Chemical Reviews</i> , <b>2021</b> , 121, 2109-2146  | 68.1 | 64 |
| 17 | Superelastic wire-shaped supercapacitor sustaining 850% tensile strain based on carbon nanotube@graphene fiber. <i>Nano Research</i> , <b>2018</b> , 11, 2347-2356  | 10   | 46 |
| 16 | Natural Biopolymers for Flexible Sensing and Energy Devices. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2020</b> , 38, 459-490  | 3.5  | 41 |
| 15 | Silk-Derived 2D Porous Carbon Nanosheets with Atomically-Dispersed Fe-N -C Sites for Highly Efficient Oxygen Reaction Catalysts. <i>Small</i> , <b>2019</b> , 15, e1804966  | 11   | 40 |
| 14 | Synthesis of three-dimensional carbon nanotube/graphene hybrid materials by a two-step chemical vapor deposition process. <i>Carbon</i> , <b>2015</b> , 86, 358-362   | 10.4 | 40 |
| 13 | Molybdenum Disulfide Nanosheets Aligned Vertically on Carbonized Silk Fabric as Smart Textile for Wearable Pressure-Sensing and Energy Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 11825-11832 | 9.5  | 37 |
| 12 | Spontaneous Alignment of Graphene Oxide in Hydrogel during 3D Printing for Multistimuli-Responsive Actuation. <i>Advanced Science</i> , <b>2020</b> , 7, 1903048  | 13.6 | 30 |
| 11 | Smart Fibers and Textiles for Personal Health Management. <i>ACS Nano</i> , <b>2021</b> ,   | 16.7 | 29 |
| 10 | Carbonized Chinese Art Paper-Based High-Performance Wearable Strain Sensor for Human Activity Monitoring. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 2415-2421  | 4    | 21 |
| 9  | Hierarchical carbon-nanotube/quartz-fiber films with gradient nanostructures for high efficiency and long service life air filters. <i>RSC Advances</i> , <b>2014</b> , 4, 54115-54121  | 3.7  | 21 |

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| 8 | Mineral-Templated 3D Graphene Architectures for Energy-Efficient Electrodes. <i>Small</i> , <b>2018</b> , 14, e1801009   | 19      |
| 7 | A high efficiency particulate air filter based on agglomerated carbon nanotube fluidized bed. <i>Carbon</i> , <b>2014</b> , 79, 424-431  | 10.4 19 |
| 6 | Hollow core-sheath nanocarbon spheres grown on carbonized silk fabrics for self-supported and nonenzymatic glucose sensing. <i>Nanoscale</i> , <b>2019</b> , 11, 11856-11863   | 7.7 15  |
| 5 | Electronic fibers and textiles: Recent progress and perspective. <i>iScience</i> , <b>2021</b> , 24, 102716  | 6.1 14  |
| 4 | 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> , <b>2021</b> , 118, | 11.5 13 |
| 3 | Graphene/graphite sheet assisted growth of high-area-density horizontally aligned carbon nanotubes. <i>Chemical Communications</i> , <b>2014</b> , 50, 11158-61  | 5.8 12  |
| 2 | Wearable Strain Sensors: Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors (Adv. Mater. 31/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 6639                                      | 24 11   |
| 1 | Seamless Graphene-Seal-Wrap as a Removable Protective Cover for Two-Dimensional Materials <b>2020</b> , 2, 215-219   | 4       |