

# Xi Shen

## List of Publications by Year in descending order

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53  
papers

7,013  
citations

71102

41  
h-index

161849

54  
g-index

54  
all docs

54  
docs citations

54  
times ranked

7775  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Rational Design of All Resistive Multifunctional Sensors with Stimulus Discriminability. <i>Advanced Functional Materials</i> , 2022, 32, .  | 14.9 | 33        |
| 2  | Interdigitated Three-Dimensional Heterogeneous Nanocomposites for High-Performance Mechanochromic Smart Membranes. <i>ACS Nano</i> , 2022, 16, 68-77.  | 14.6 | 15        |
| 3  | Superinsulating BNNS/PVA Composite Aerogels with High Solar Reflectance for Energy-Efficient Buildings. <i>Nano-Micro Letters</i> , 2022, 14, 54.  | 27.0 | 36        |
| 4  | Integrated Water and Thermal Managements in Bioinspired Hierarchical MXene Aerogels for Highly Efficient Solar-Powered Water Evaporation. <i>Advanced Functional Materials</i> , 2022, 32, .                                   | 14.9 | 94        |
| 5  | Twin-Structured Graphene Metamaterials with Anomalous Mechanical Properties. <i>Advanced Materials</i> , 2022, 34, e2200444.   | 21.0 | 17        |
| 6  | Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. <i>Progress in Materials Science</i> , 2021, 115, 100708.   | 32.8 | 150       |
| 7  | Unravelling intercalation-regulated nanoconfinement for durably ultrafast sieving graphene oxide membranes. <i>Journal of Membrane Science</i> , 2021, 619, 118791.  | 8.2  | 80        |
| 8  | Flexible temperature sensors made of aligned electrospun carbon nanofiber films with outstanding sensitivity and selectivity towards temperature. <i>Materials Horizons</i> , 2021, 8, 1488-1498.                              | 12.2 | 61        |
| 9  | Beyond homogeneous dispersion: oriented conductive fillers for high- $\kappa$ nanocomposites. <i>Materials Horizons</i> , 2021, 8, 3009-3042.  | 12.2 | 21        |
| 10 | Revealing Cathode-Electrolyte Interface on Flower-Shaped $\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Cathode through Cryogenic Electron Microscopy. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100072. | 5.8  | 8         |
| 11 | Anisotropic, Wrinkled, and Crack-Bridging Structure for Ultrasensitive, Highly Selective Multidirectional Strain Sensors. <i>Nano-Micro Letters</i> , 2021, 13, 122.   | 27.0 | 74        |
| 12 | Unraveling the mechanical origin of stable solid electrolyte interphase. <i>Joule</i> , 2021, 5, 1860-1872.  | 24.0 | 89        |
| 13 | Recent advances in emerging nonaqueous K-ion batteries: from mechanistic insights to practical applications. <i>Energy Storage Materials</i> , 2021, 39, 305-346.  | 18.0 | 27        |
| 14 | Morphology, chemistry, performance trident: Insights from hollow, mesoporous carbon nanofibers for dendrite-free sodium metal batteries. <i>Nano Energy</i> , 2021, 86, 106132.  | 16.0 | 34        |
| 15 | MXene/polyurethane auxetic composite foam for electromagnetic interference shielding and impact attenuation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 147, 106430.                                  | 7.6  | 53        |
| 16 | Graphene-based wearable piezoresistive physical sensors. <i>Materials Today</i> , 2020, 36, 158-179.   | 14.2 | 262       |
| 17 | 3D graphene and boron nitride structures for nanocomposites with tailored thermal conductivities: recent advances and perspectives. <i>Functional Composites and Structures</i> , 2020, 2, 022001.                             | 3.4  | 21        |
| 18 | Human skin-inspired integrated multidimensional sensors based on highly anisotropic structures. <i>Materials Horizons</i> , 2020, 7, 2378-2389.  | 12.2 | 56        |

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|----|---|------|-----------|
| 19 | Highly Thermally Conductive Dielectric Nanocomposites with Synergistic Alignments of Graphene and Boron Nitride Nanosheets. <i>Advanced Functional Materials</i> , 2020, 30, 1910826.             | 14.9 | 223       |
| 20 | Building 3D Architecture in 2D Thin Film for Effective EMI Shielding. <i>Matter</i> , 2019, 1, 796-798.   | 10.0 | 14        |
| 21 | Highly Aligned, Anisotropic Carbon Nanofiber Films for Multidirectional Strain Sensors with Exceptional Selectivity. <i>Advanced Functional Materials</i> , 2019, 29, 1901623.                    | 14.9 | 137       |
| 22 | Novel mussel-inspired zwitterionic hydrophilic polymer to boost membrane water-treatment performance. <i>Journal of Membrane Science</i> , 2019, 582, 1-8.  | 8.2  | 109       |
| 23 | Spider-Web-Inspired Stretchable Graphene Woven Fabric for Highly Sensitive, Transparent, Wearable Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2282-2294.            | 8.0  | 105       |
| 24 | An Ultralight Graphene Honeycomb Sandwich for Stretchable Light-Emitting Displays. <i>Advanced Functional Materials</i> , 2018, 28, 1707043.  | 14.9 | 61        |
| 25 | Graphene Size-Dependent Multifunctional Properties of Unidirectional Graphene Aerogel/Epoxy Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6580-6592.                  | 8.0  | 71        |
| 26 | A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. <i>Materials Horizons</i> , 2018, 5, 275-284.               | 12.2 | 129       |
| 27 | Sliced graphene foam films for dual-functional wearable strain sensors and switches. <i>Nanoscale Horizons</i> , 2018, 3, 35-44.  | 8.0  | 84        |
| 28 | Graphene/Boron Nitride-Polyurethane Microlaminates for Exceptional Dielectric Properties and High Energy Densities. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 26641-26652.        | 8.0  | 81        |
| 29 | Ultralight Graphene Foam/Conductive Polymer Composites for Exceptional Electromagnetic Interference Shielding. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9059-9069.                | 8.0  | 438       |
| 30 | A highly sensitive graphene woven fabric strain sensor for wearable wireless musical instruments. <i>Materials Horizons</i> , 2017, 4, 477-486.   | 12.2 | 194       |
| 31 | Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites as excellent sound absorber. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 102, 391-399.                   | 7.6  | 54        |
| 32 | Ultra-high dielectric constant and low loss of highly-aligned graphene aerogel/poly(vinyl alcohol) composites with insulating barriers. <i>Carbon</i> , 2017, 123, 385-394.                       | 10.3 | 114       |
| 33 | Reprint of Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites for exceptional microwave shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 92, 190-197. | 7.6  | 51        |
| 34 | Multilayer Graphene Enables Higher Efficiency in Improving Thermal Conductivities of Graphene/Epoxy Composites. <i>Nano Letters</i> , 2016, 16, 3585-3593.  | 9.1  | 289       |
| 35 | Ultralow Electrical Percolation in Graphene Aerogel/Epoxy Composites. <i>Chemistry of Materials</i> , 2016, 28, 6731-6741.  | 6.7  | 137       |
| 36 | Effect of functionalization on thermal conductivities of graphene/epoxy composites. <i>Carbon</i> , 2016, 108, 412-422.   | 10.3 | 184       |

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|----|---|------|-----------|
| 37 | Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites for exceptional microwave shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 85, 199-206.                                      | 7.6  | 171       |
| 38 | Graphene Oxide Papers Simultaneously Doped with Mg <sup>2+</sup> and Cl <sup>-</sup> for Exceptional Mechanical, Electrical, and Dielectric Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2360-2371. | 8.0  | 34        |
| 39 | Graphene Aerogel/Epoxy Composites with Exceptional Anisotropic Structure and Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5538-5549.  | 8.0  | 235       |
| 40 | Exceptional dielectric properties of chlorine-doped graphene oxide/poly (vinylidene fluoride) nanocomposites. <i>Carbon</i> , 2015, 89, 102-112.  | 10.3 | 137       |
| 41 | Planar Porous Graphene Woven Fabric/Epoxy Composites with Exceptional Electrical, Mechanical Properties, and Fracture Toughness. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21455-21464.                      | 8.0  | 36        |
| 42 | Enhancement of mechanical properties of natural fiber composites via carbon nanotube addition. <i>Journal of Materials Science</i> , 2014, 49, 3225-3233.   | 3.7  | 63        |
| 43 | Wrinkling in graphene sheets and graphene oxide papers. <i>Carbon</i> , 2014, 66, 84-92.  | 10.3 | 213       |
| 44 | Tunable thermal conductivities of graphene oxide by functionalization and tensile loading. <i>Carbon</i> , 2014, 80, 235-245.   | 10.3 | 53        |
| 45 | Electrical and mechanical properties of carbon nanofiber/graphene oxide hybrid papers. <i>Composites Science and Technology</i> , 2014, 100, 166-173.   | 7.8  | 41        |
| 46 | Highly Aligned Graphene/Polymer Nanocomposites with Excellent Dielectric Properties for High-Performance Electromagnetic Interference Shielding. <i>Advanced Materials</i> , 2014, 26, 5480-5487.                           | 21.0 | 1,024     |
| 47 | Effects of processing and material parameters on synthesis of monolayer ultralarge graphene oxide sheets. <i>Carbon</i> , 2014, 77, 244-254.  | 10.3 | 61        |
| 48 | Exceptional Electrical Conductivity and Fracture Resistance of 3D Interconnected Graphene Foam/Epoxy Composites. <i>ACS Nano</i> , 2014, 8, 5774-5783.  | 14.6 | 298       |
| 49 | Excellent optoelectrical properties of graphene oxide thin films deposited on a flexible substrate by Langmuir-Blodgett assembly. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6869.                                  | 5.5  | 59        |
| 50 | Highly aligned, ultralarge-size reduced graphene oxide/polyurethane nanocomposites: Mechanical properties and moisture permeability. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 49, 42-50.         | 7.6  | 242       |
| 51 | Simultaneous in situ reduction, self-alignment and covalent bonding in graphene oxide/epoxy composites. <i>Carbon</i> , 2013, 59, 406-417.  | 10.3 | 238       |
| 52 | Highly transparent and conducting ultralarge graphene oxide/single-walled carbon nanotube hybrid films produced by Langmuir-Blodgett assembly. <i>Journal of Materials Chemistry</i> , 2012, 22, 25072.                     | 6.7  | 151       |
| 53 | Fabrication of Highly-Aligned, Conductive, and Strong Graphene Papers Using Ultralarge Graphene Oxide Sheets. <i>ACS Nano</i> , 2012, 6, 10708-10719.   | 14.6 | 344       |