

Xi Shen

List of Publications by Year in descending order

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7,013
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71102

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7775
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ultralight Graphene Foam/Conductive Polymer Composites for Exceptional Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9059-9069.	8.0	438
3	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
4	Exceptional Electrical Conductivity and Fracture Resistance of 3D Interconnected Graphene Foam/Epoxy Composites. <i>ACS Nano</i> , 2014, 8, 5774-5783.	14.6	298
5	Multilayer Graphene Enables Higher Efficiency in Improving Thermal Conductivities of Graphene/Epoxy Composites. <i>Nano Letters</i> , 2016, 16, 3585-3593.	9.1	289
6	Graphene-based wearable piezoresistive physical sensors. <i>Materials Today</i> , 2020, 36, 158-179.	14.2	262
7	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
8	Simultaneous in situ reduction, self-alignment and covalent bonding in graphene oxide/epoxy composites. <i>Carbon</i> , 2013, 59, 406-417.	10.3	238
9	Graphene Aerogel/Epoxy Composites with Exceptional Anisotropic Structure and Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5538-5549.	8.0	235
10	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
11	Wrinkling in graphene sheets and graphene oxide papers. <i>Carbon</i> , 2014, 66, 84-92.	10.3	213
12	A highly sensitive graphene woven fabric strain sensor for wearable wireless musical instruments. <i>Materials Horizons</i> , 2017, 4, 477-486.	12.2	194
13	Effect of functionalization on thermal conductivities of graphene/epoxy composites. <i>Carbon</i> , 2016, 108, 412-422.	10.3	184
14	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
15	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
16	Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. <i>Progress in Materials Science</i> , 2021, 115, 100708.	32.8	150
17	Exceptional dielectric properties of chlorine-doped graphene oxide/poly (vinylidene fluoride) nanocomposites. <i>Carbon</i> , 2015, 89, 102-112.	10.3	137
18	Ultralow Electrical Percolation in Graphene Aerogel/Epoxy Composites. <i>Chemistry of Materials</i> , 2016, 28, 6731-6741.	6.7	137

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19	Highly Aligned, Anisotropic Carbon Nanofiber Films for Multidirectional Strain Sensors with Exceptional Selectivity. <i>Advanced Functional Materials</i> , 2019, 29, 1901623.	14.9	137
20	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
21	Ultrahigh 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
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 & Interfaces</i> , 2019, 11, 2282-2294.	8.0	105
24	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
25	Unraveling the mechanical origin of stable solid electrolyte interphase. <i>Joule</i> , 2021, 5, 1860-1872.	24.0	89
26	Sliced graphene foam films for dual-functional wearable strain sensors and switches. <i>Nanoscale Horizons</i> , 2018, 3, 35-44.	8.0	84
27	Graphene/Boron Nitride-Polyurethane Microlaminates for Exceptional Dielectric Properties and High Energy Densities. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26641-26652.	8.0	81
28	Unravelling intercalation-regulated nanoconfinement for durably ultrafast sieving graphene oxide membranes. <i>Journal of Membrane Science</i> , 2021, 619, 118791.	8.2	80
29	Anisotropic, Wrinkled, and Crack-Bridging Structure for Ultrasensitive, Highly Selective Multidirectional Strain Sensors. <i>Nano-Micro Letters</i> , 2021, 13, 122.	27.0	74
30	Graphene Size-Dependent Multifunctional Properties of Unidirectional Graphene Aerogel/Epoxy Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6580-6592.	8.0	71
31	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
32	Effects of processing and material parameters on synthesis of monolayer ultralarge graphene oxide sheets. <i>Carbon</i> , 2014, 77, 244-254.	10.3	61
33	An Ultralight Graphene Honeycomb Sandwich for Stretchable Light-Emitting Displays. <i>Advanced Functional Materials</i> , 2018, 28, 1707043.	14.9	61
34	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
35	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
36	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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37	Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites as excellent sound absorber. Composites Part A: Applied Science and Manufacturing, 2017, 102, 391-399.	7.6	54
38	Tunable thermal conductivities of graphene oxide by functionalization and tensile loading. Carbon, 2014, 80, 235-245.	10.3	53
39	MXene/polyurethane auxetic composite foam for electromagnetic interference shielding and impact attenuation. Composites Part A: Applied Science and Manufacturing, 2021, 147, 106430.	7.6	53
40	Reprint of Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites for exceptional microwave shielding. Composites Part A: Applied Science and Manufacturing, 2017, 92, 190-197.	7.6	51
41	Electrical and mechanical properties of carbon nanofiber/graphene oxide hybrid papers. Composites Science and Technology, 2014, 100, 166-173.	7.8	41
42	Planar Porous Graphene Woven Fabric/Epoxy Composites with Exceptional Electrical, Mechanical Properties, and Fracture Toughness. ACS Applied Materials & Interfaces, 2015, 7, 21455-21464.	8.0	36
43	Superinsulating BNNS/PVA Composite Aerogels with High Solar Reflectance for Energy-Efficient Buildings. Nano-Micro Letters, 2022, 14, 54.	27.0	36
44	Graphene Oxide Papers Simultaneously Doped with Mg ²⁺ and Cl ⁻ for Exceptional Mechanical, Electrical, and Dielectric Properties. ACS Applied Materials & Interfaces, 2016, 8, 2360-2371.	8.0	34
45	Morphology, chemistry, performance trident: Insights from hollow, mesoporous carbon nanofibers for dendrite-free sodium metal batteries. Nano Energy, 2021, 86, 106132.	16.0	34
46	Rational Design of All Resistive Multifunctional Sensors with Stimulus Discriminability. Advanced Functional Materials, 2022, 32, .	14.9	33
47	Recent advances in emerging nonaqueous K-ion batteries: from mechanistic insights to practical applications. Energy Storage Materials, 2021, 39, 305-346.	18.0	27
48	3D graphene and boron nitride structures for nanocomposites with tailored thermal conductivities: recent advances and perspectives. Functional Composites and Structures, 2020, 2, 022001.	3.4	21
49	Beyond homogeneous dispersion: oriented conductive fillers for high- σ_c nanocomposites. Materials Horizons, 2021, 8, 3009-3042.	12.2	21
50	Twin-Structured Graphene Metamaterials with Anomalous Mechanical Properties. Advanced Materials, 2022, 34, e2200444.	21.0	17
51	Interdigitated Three-Dimensional Heterogeneous Nanocomposites for High-Performance Mechanochromic Smart Membranes. ACS Nano, 2022, 16, 68-77.	14.6	15
52	Building 3D Architecture in 2D Thin Film for Effective EMI Shielding. Matter, 2019, 1, 796-798.	10.0	14
53	Revealing Cathode-Electrolyte Interface on Flower-Shaped Na ₃ V ₂ (PO ₄) ₃ /C Cathode through Cryogenic Electron Microscopy. Advanced Energy and Sustainability Research, 2021, 2, 2100072.	5.8	8