Xi Shen

List of Publications by Year
in descending order

53 papers	7,013 citations	70961 41 h-index	161609 54 g-index
54 all docs	54 docs citations	54 times ranked	7775 citing authors

#	Article	IF	Citations
1	Highly Aligned Graphene/Polymer Nanocomposites with Excellent Dielectric Properties for Highâ€Performance Electromagnetic Interference Shielding. Advanced Materials, 2014, 26, 5480-5487.	11.1	1,024
2	Ultralight Graphene Foam/Conductive Polymer Composites for Exceptional Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2017, 9, 9059-9069.	4.0	438
3	Fabrication of Highly-Aligned, Conductive, and Strong Graphene Papers Using Ultralarge Graphene Oxide Sheets. ACS Nano, 2012, 6, 10708-10719.	7.3	344
4	Exceptional Electrical Conductivity and Fracture Resistance of 3D Interconnected Graphene Foam/Epoxy Composites. ACS Nano, 2014, 8, 5774-5783.	7.3	298
5	Multilayer Graphene Enables Higher Efficiency in Improving Thermal Conductivities of Graphene/Epoxy Composites. Nano Letters, 2016, 16, 3585-3593.	4.5	289
6	Graphene-based wearable piezoresistive physical sensors. Materials Today, 2020, 36, 158-179.	8.3	262
7	Highly aligned, ultralarge-size reduced graphene oxide/polyurethane nanocomposites: Mechanical properties and moisture permeability. Composites Part A: Applied Science and Manufacturing, 2013, 49, 42-50.	3.8	242
8	Simultaneous in situ reduction, self-alignment and covalent bonding in graphene oxide/epoxy composites. Carbon, 2013, 59, 406-417.	5.4	238
9	Graphene Aerogel/Epoxy Composites with Exceptional Anisotropic Structure and Properties. ACS Applied Materials & Interfaces, 2015, 7, 5538-5549.	4.0	235
10	Highly Thermally Conductive Dielectric Nanocomposites with Synergistic Alignments of Graphene and Boron Nitride Nanosheets. Advanced Functional Materials, 2020, 30, 1910826.	7.8	223
11	Wrinkling in graphene sheets and graphene oxide papers. Carbon, 2014, 66, 84-92.	5.4	213
12	A highly sensitive graphene woven fabric strain sensor for wearable wireless musical instruments. Materials Horizons, 2017, 4, 477-486.	6.4	194
13	Effect of functionalization on thermal conductivities of graphene/epoxy composites. Carbon, 2016, 108, 412-422.	5.4	184
14	Graphene foam/carbon nanotube/poly(dimethyl siloxane) composites for exceptional microwave shielding. Composites Part A: Applied Science and Manufacturing, 2016, 85, 199-206.	3.8	171
15	Highly transparent and conducting ultralarge graphene oxide/single-walled carbon nanotube hybrid films produced by Langmuirâ€“Blodgett assembly. Journal of Materials Chemistry, 2012, 22, 25072.	6.7	151
16	Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. Progress in Materials Science, 2021, 115, 100708.	16.0	150
17	Exceptional dielectric properties of chlorine-doped graphene oxide/poly (vinylidene fluoride) nanocomposites. Carbon, 2015, 89, 102-112.	5.4	137
18	Ultralow Electrical Percolation in Graphene Aerogel/Epoxy Composites. Chemistry of Materials, 2016, 28, 6731-6741.	3.2	137

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19	Highly Aligned, Anisotropic Carbon Nanofiber Films for Multidirectional Strain Sensors with Exceptional Selectivity. Advanced Functional Materials, 2019, 29, 1901623.	7.8	137
20	A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. Materials Horizons, 2018, 5, 275-284.	6.4	129
21	Ultrahigh dielectric constant and low loss of highly-aligned graphene aerogel/poly(vinyl alcohol) composites with insulating barriers. Carbon, 2017, 123, 385-394.	5.4	114
22	Novel mussel-inspired zwitterionic hydrophilic polymer to boost membrane water-treatment performance. Journal of Membrane Science, 2019, 582, 1-8.	4.1	109
23	Spider-Web-Inspired Stretchable Graphene Woven Fabric for Highly Sensitive, Transparent, Wearable Strain Sensors. ACS Applied Materials & Interfaces, 2019, 11, 2282-2294.	4.0	105
24	Integrated Water and Thermal Managements in Bioinspired Hierarchical MXene Aerogels for Highly Efficient Solarâ€Powered Water Evaporation. Advanced Functional Materials, 2022, 32, .	7.8	94
25	Unraveling the mechanical origin of stable solid electrolyte interphase. Joule, 2021, 5, 1860-1872.	11.7	89
26	Sliced graphene foam films for dual-functional wearable strain sensors and switches. Nanoscale Horizons, 2018, 3, 35-44.	4.1	84
27	Graphene/Boron Nitrideâ€“Polyurethane Microlaminates for Exceptional Dielectric Properties and High Energy Densities. ACS Applied Materials & Interfaces, 2018, 10, 26641-26652.	4.0	81
28	Unravelling intercalation-regulated nanoconfinement for durably ultrafast sieving graphene oxide membranes. Journal of Membrane Science, 2021, 619, 118791.	4.1	80
29	Anisotropic, Wrinkled, and Crack-Bridging Structure for Ultrasensitive, Highly Selective Multidirectional Strain Sensors. Nano-Micro Letters, 2021, 13, 122.	14.4	74
30	Graphene Size-Dependent Multifunctional Properties of Unidirectional Graphene Aerogel/Epoxy Nanocomposites. ACS Applied Materials & Interfaces, 2018, 10, 6580-6592.	4.0	71
31	Enhancement of mechanical properties of natural fiber composites via carbon nanotube addition. Journal of Materials Science, 2014, 49, 3225-3233.	1.7	63
32	Effects of processing and material parameters on synthesis of monolayer ultralarge graphene oxide sheets. Carbon, 2014, 77, 244-254.	5.4	61
33	An Ultralight Graphene Honeycomb Sandwich for Stretchable Lightâ€Emitting Displays. Advanced Functional Materials, 2018, 28, 1707043.	7.8	61
34	Flexible temperature sensors made of aligned electrospun carbon nanofiber films with outstanding sensitivity and selectivity towards temperature. Materials Horizons, 2021, 8, 1488-1498.	6.4	61
35	Excellent optoelectrical properties of graphene oxide thin films deposited on a flexible substrate by Langmuirâ€“Blodgett assembly. Journal of Materials Chemistry C, 2013, 1, 6869.	2.7	59
36	Human skin-inspired integrated multidimensional sensors based on highly anisotropic structures. Materials Horizons, 2020, 7, 2378-2389.	6.4	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.	3.8	54
38	Tunable thermal conductivities of graphene oxide by functionalization and tensile loading. Carbon, 2014, 80, 235-245.	5.4	53
39	MXene/polyurethane auxetic composite foam for electromagnetic interference shielding and impact attenuation. Composites Part A: Applied Science and Manufacturing, 2021, 147, 106430.	3.8	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.	3.8	51
41	Electrical and mechanical properties of carbon nanofiber/graphene oxide hybrid papers. Composites Science and Technology, 2014, 100, 166-173.	3.8	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.	4.0	36
43	Superinsulating BNNS/PVA Composite Aerogels with High Solar Reflectance for Energy-Efficient Buildings. Nano-Micro Letters, 2022, 14, 54.	14.4	36
44	Graphene Oxide Papers Simultaneously Doped with Mg²⁺ and Cl^{â€“} for Exceptional Mechanical, Electrical, and Dielectric Properties. ACS Applied Materials & Interfaces, 2016, 8, 2360-2371.	4.0	34
45	Morphology, chemistry, performance trident: Insights from hollow, mesoporous carbon nanofibers for dendrite-free sodium metal batteries. Nano Energy, 2021, 86, 106132.	8.2	34
46	Rational Design of All Resistive Multifunctional Sensors with Stimulus Discriminability. Advanced Functional Materials, 2022, 32, .	7.8	33
47	Recent advances in emerging nonaqueous K-ion batteries: from mechanistic insights to practical applications. Energy Storage Materials, 2021, 39, 305-346.	9.5	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.	1.6	21
49	Beyond homogeneous dispersion: oriented conductive fillers for highÎ²nanocomposites. Materials Horizons, 2021, 8, 3009-3042.	6.4	21
50	Twinâ€Structured Graphene Metamaterials with Anomalous Mechanical Properties. Advanced Materials, 2022, 34, e2200444.	11.1	17
51	Interdigitated Three-Dimensional Heterogeneous Nanocomposites for High-Performance Mechanochromic Smart Membranes. ACS Nano, 2022, 16, 68-77.	7.3	15
52	Building 3D Architecture in 2D Thin Film for Effective EMI Shielding. Matter, 2019, 1, 796-798.	5.0	14
53	Revealing Cathodeâ€“Electrolyte Interface on Flowerâ€Shaped Na₃V₂(PO₄)₃/C Cathode through Cryogenic Electron Microscopy. Advanced Energy and Sustainability Research, 2021, 2, 2100072.	2.8	8