

Xi Shen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

4,991
citations

35
h-index

54
g-index

54
ext. papers

5,993
ext. citations

13
avg, IF

5.98
L-index

#	Paper	IF	Citations
53	Superinsulating BNNS/PVA Composite Aerogels with High Solar Reflectance for Energy-Efficient Buildings.. <i>Nano-Micro Letters</i> , 2022 , 14, 54	19.5	5
52	Twin-structured Graphene Metamaterials with Anomalous Mechanical Properties.. <i>Advanced Materials</i> , 2022 , e2200444	24	4
51	Interdigitated Three-Dimensional Heterogeneous Nanocomposites for High-Performance Mechanochromic Smart Membranes. <i>ACS Nano</i> , 2021 ,	16.7	4
50	Revealing Cathode/Electrolyte Interface on Flower-Shaped Na ₃ V ₂ (PO ₄) ₃ /C Cathode through Cryogenic Electron Microscopy. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100072	1.6	3
49	Anisotropic, Wrinkled, and Crack-Bridging Structure for Ultrasensitive, Highly Selective Multidirectional Strain Sensors. <i>Nano-Micro Letters</i> , 2021 , 13, 122	19.5	22
48	Unraveling the mechanical origin of stable solid electrolyte interphase. <i>Joule</i> , 2021 , 5, 1860-1872	27.8	25
47	Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. <i>Progress in Materials Science</i> , 2021 , 115, 100708	42.2	49
46	Unravelling intercalation-regulated nanoconfinement for durably ultrafast sieving graphene oxide membranes. <i>Journal of Membrane Science</i> , 2021 , 619, 118791	9.6	47
45	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	14.4	22
44	Beyond homogeneous dispersion: oriented conductive fillers for high nanocomposites. <i>Materials Horizons</i> , 2021 , 8, 3009-3042	14.4	3
43	Recent advances in emerging nonaqueous K-ion batteries: from mechanistic insights to practical applications. <i>Energy Storage Materials</i> , 2021 , 39, 305-346	19.4	9
42	Morphology, chemistry, performance trident: Insights from hollow, mesoporous carbon nanofibers for dendrite-free sodium metal batteries. <i>Nano Energy</i> , 2021 , 86, 106132	17.1	13
41	MXene/polyurethane auxetic composite foam for electromagnetic interference shielding and impact attenuation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 147, 106430	8.4	17
40	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	3.5	15
39	Human skin-inspired integrated multidimensional sensors based on highly anisotropic structures. <i>Materials Horizons</i> , 2020 , 7, 2378-2389	14.4	30
38	Highly Thermally Conductive Dielectric Nanocomposites with Synergistic Alignments of Graphene and Boron Nitride Nanosheets. <i>Advanced Functional Materials</i> , 2020 , 30, 1910826	15.6	111
37	Graphene-based wearable piezoresistive physical sensors. <i>Materials Today</i> , 2020 , 36, 158-179	21.8	109

36	Highly Aligned, Anisotropic Carbon Nanofiber Films for Multidirectional Strain Sensors with Exceptional Selectivity. <i>Advanced Functional Materials</i> , 2019 , 29, 1901623	15.6	75
35	Novel mussel-inspired zwitterionic hydrophilic polymer to boost membrane water-treatment performance. <i>Journal of Membrane Science</i> , 2019 , 582, 1-8	9.6	79
34	Building 3D Architecture in 2D Thin Film for Effective EMI Shielding. <i>Matter</i> , 2019 , 1, 796-798	12.7	8
33	Spider-Web-Inspired Stretchable Graphene Woven Fabric for Highly Sensitive, Transparent, Wearable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2282-2294	9.5	65
32	An Ultralight Graphene Honeycomb Sandwich for Stretchable Light-Emitting Displays. <i>Advanced Functional Materials</i> , 2018 , 28, 1707043	15.6	39
31	Graphene Size-Dependent Multifunctional Properties of Unidirectional Graphene Aerogel/Epoxy Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6580-6592	9.5	54
30	A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. <i>Materials Horizons</i> , 2018 , 5, 275-284	14.4	87
29	Graphene/Boron Nitride-Polyurethane Microlaminates for Exceptional Dielectric Properties and High Energy Densities. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26641-26652	9.5	51
28	Sliced graphene foam films for dual-functional wearable strain sensors and switches. <i>Nanoscale Horizons</i> , 2018 , 3, 35-44	10.8	60
27	Ultralight Graphene Foam/Conductive Polymer Composites for Exceptional Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9059-9069	9.5	321
26	A highly sensitive graphene woven fabric strain sensor for wearable wireless musical instruments. <i>Materials Horizons</i> , 2017 , 4, 477-486	14.4	148
25	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	8.4	35
24	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	10.4	86
23	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	8.4	46
22	Effect of functionalization on thermal conductivities of graphene/epoxy composites. <i>Carbon</i> , 2016 , 108, 412-422	10.4	135
21	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	8.4	139
20	Graphene Oxide Papers Simultaneously Doped with Mg(2+) and Cl(-) for Exceptional Mechanical, Electrical, and Dielectric Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2360-71	9.5	28
19	Multilayer Graphene Enables Higher Efficiency in Improving Thermal Conductivities of Graphene/Epoxy Composites. <i>Nano Letters</i> , 2016 , 16, 3585-93	11.5	233

18	Ultralow Electrical Percolation in Graphene Aerogel/Epoxy Composites. <i>Chemistry of Materials</i> , 2016 , 28, 6731-6741	9.6	112
17	Exceptional dielectric properties of chlorine-doped graphene oxide/poly (vinylidene fluoride) nanocomposites. <i>Carbon</i> , 2015 , 89, 102-112	10.4	114
16	Planar Porous Graphene Woven Fabric/Epoxy Composites with Exceptional Electrical, Mechanical Properties, and Fracture Toughness. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21455-64	9.5	30
15	Graphene aerogel/epoxy composites with exceptional anisotropic structure and properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5538-49	9.5	207
14	Enhancement of mechanical properties of natural fiber composites via carbon nanotube addition. <i>Journal of Materials Science</i> , 2014 , 49, 3225-3233	4.3	41
13	Wrinkling in graphene sheets and graphene oxide papers. <i>Carbon</i> , 2014 , 66, 84-92	10.4	160
12	Tunable thermal conductivities of graphene oxide by functionalization and tensile loading. <i>Carbon</i> , 2014 , 80, 235-245	10.4	45
11	Electrical and mechanical properties of carbon nanofiber/graphene oxide hybrid papers. <i>Composites Science and Technology</i> , 2014 , 100, 166-173	8.6	37
10	Highly aligned graphene/polymer nanocomposites with excellent dielectric properties for high-performance electromagnetic interference shielding. <i>Advanced Materials</i> , 2014 , 26, 5480-7	24	867
9	Effects of processing and material parameters on synthesis of monolayer ultralarge graphene oxide sheets. <i>Carbon</i> , 2014 , 77, 244-254	10.4	51
8	Exceptional electrical conductivity and fracture resistance of 3D interconnected graphene foam/epoxy composites. <i>ACS Nano</i> , 2014 , 8, 5774-83	16.7	257
7	Excellent optoelectrical properties of graphene oxide thin films deposited on a flexible substrate by LangmuirBlodgett assembly. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6869	7.1	51
6	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	8.4	202
5	Simultaneous in situ reduction, self-alignment and covalent bonding in graphene oxide/epoxy composites. <i>Carbon</i> , 2013 , 59, 406-417	10.4	207
4	Highly transparent and conducting ultralarge graphene oxide/single-walled carbon nanotube hybrid films produced by LangmuirBlodgett assembly. <i>Journal of Materials Chemistry</i> , 2012 , 22, 25072		127
3	Fabrication of highly-aligned, conductive, and strong graphene papers using ultralarge graphene oxide sheets. <i>ACS Nano</i> , 2012 , 6, 10708-19	16.7	282
2	Integrated Water and Thermal Managements in Bioinspired Hierarchical MXene Aerogels for Highly Efficient Solar-Powered Water Evaporation. <i>Advanced Functional Materials</i> , 2111794	15.6	12
1	Rational Design of All Resistive Multifunctional Sensors with Stimulus Discriminability. <i>Advanced Functional Materials</i> , 2107570	15.6	6

