Jian-Bin Xu

List of Publications by Citations

26 papers	3,415 citations	22 h-index	30 g-index
30 ext. papers	4,045 ext. citations	13.1 avg, IF	5.42 L-index

#	Paper	IF	Citations
26	High-responsivity graphene/silicon-heterostructure waveguide photodetectors. *Nature Photonics*, **2013**, 7, 888-891	33.9	584
25	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. *Applied Physics Reviews*, **2017**, 4, 021306	17.3	368
24	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. *ACS Nano*, **2017**, 11, 4507-4513	16.7	315
23	A Combination of Boron Nitride Nanotubes and Cellulose Nanofibers for the Preparation of a Nanocomposite with High Thermal Conductivity. *ACS Nano*, **2017**, 11, 5167-5178	16.7	297
22	Polymer Composite with Improved Thermal Conductivity by Constructing a Hierarchically Ordered Three-Dimensional Interconnected Network of BN. *ACS Applied Materials & Interfaces*, **2017**, 9, 13544-13553	9.5	278
21	The physics and chemistry of graphene-on-surfaces. *Chemical Society Reviews*, **2017**, 46, 4417-4449	58.5	247
20	Electronic Properties of MoS2-WS2 Heterostructures Synthesized with Two-Step Lateral Epitaxial Strategy. *ACS Nano*, **2015**, 9, 9868-76	16.7	225
19	Synergistic Effects of Plasmonics and Electron Trapping in Graphene Short-Wave Infrared Photodetectors with Ultrahigh Responsivity. *ACS Nano*, **2017**, 11, 430-437	16.7	153
18	Polymer composite with enhanced thermal conductivity and mechanical strength through orientation manipulating of BN. *Composites Science and Technology*, **2018**, 160, 127-137	8.6	118
17	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. *Advanced Optical Materials*, **2015**, 3, 1207-1214	8.1	111
16	Interfacial Engineering of Silicon Carbide Nanowire/Cellulose Microcrystal Paper toward High Thermal Conductivity. *ACS Applied Materials & Interfaces*, **2016**, 8, 31248-31255	9.5	106
15	High-performance graphene devices on SiO2/Si substrate modified by highly ordered self-assembled monolayers. *Advanced Materials*, **2011**, 23, 2464-8	24	93
14	Quantitative Analysis of Graphene Doping by Organic Molecular Charge Transfer. *Journal of Physical Chemistry C*, **2011**, 115, 7596-7602	3.8	81
13	Spray-assisted assembled spherical boron nitride as fillers for polymers with enhanced thermally conductivity. *Chemical Engineering Journal*, **2019**, 370, 166-175	14.7	74
12	Graphene size-dependent modulation of graphene frameworks contributing to the superior thermal conductivity of epoxy composites. *Journal of Materials Chemistry A*, **2018**, 6, 12091-12097	13	67
11	Spherical core-shell Al@Al2O3 filled epoxy resin composites as high-performance thermal interface materials. *Composites Part A: Applied Science and Manufacturing*, **2019**, 123, 260-269	8.4	54
10	Nacre-inspired polymer composites with high thermal conductivity and enhanced mechanical strength. *Composites Part A: Applied Science and Manufacturing*, **2019**, 121, 92-99	8.4	49

9	Core–shell Cu@rGO hybrids filled in epoxy composites with high thermal conduction. *Journal of Materials Chemistry C*, **2018**, 6, 257-265	7.1	45
8	Graphene photodetector integrated on silicon nitride waveguide. *Journal of Applied Physics*, **2015**, 117, 144504	2.5	39
7	High-Quality Monolithic Graphene Films via Laterally Stitched Growth and Structural Repair of Isolated Flakes for Transparent Electronics. *Chemistry of Materials*, **2017**, 29, 7808-7815	9.6	35
6	Enhancing light-matter interaction in 2D materials by optical micro/nano architectures for high-performance optoelectronic devices. *Informa Materia*, **2021**, 3, 36-60	23.1	29
5	High-speed infrared two-dimensional platinum diselenide photodetectors. *Applied Physics Letters*, **2020**, 116, 211101	3.4	23
4	Bound-States-in-Continuum Hybrid Integration of 2D Platinum Diselenide on Silicon Nitride for High-Speed Photodetectors. *ACS Photonics*, **2020**, 7, 2643-2649	6.3	13
3	Advances in graphene-based polymer composites with high thermal conductivity **2018**, 2, 1-17		11
2	Graphene-assisted electro-optomechanical integration on a silicon-on-insulator platform. *Optics Express*, **2020**, 28, 14386-14395	3.3	0
1	Phase-controlled epitaxial growth of MoTe2: Approaching high-quality 2D materials for electronic devices with low contact resistance. *Journal of Applied Physics*, **2022**, 131, 110902	2.5	0