

Xiangfan Xu

List of Publications by Citations

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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.

59
papers

11,721
citations

29
h-index

65
g-index

65
ext. papers

12,986
ext. citations

7.7
avg, IF

5.88
L-index

#	Paper	IF	Citations
59	Roll-to-roll production of 30-inch graphene films for transparent electrodes. <i>Nature Nanotechnology</i> , 2010 , 5, 574-8	28.7	6507
58	Graphene for controlled and accelerated osteogenic differentiation of human mesenchymal stem cells. <i>ACS Nano</i> , 2011 , 5, 4670-8	16.7	724
57	Length-dependent thermal conductivity in suspended single-layer graphene. <i>Nature Communications</i> , 2014 , 5, 3689	17.4	603
56	Thorium-doping-induced superconductivity up to 56 K in Gd _{1-x} Th _x FeAsO. <i>Europhysics Letters</i> , 2008 , 83, 67006	1.6	536
55	Electrochemical delamination of CVD-grown graphene film: toward the recyclable use of copper catalyst. <i>ACS Nano</i> , 2011 , 5, 9927-33	16.7	451
54	Interface engineering of layer-by-layer stacked graphene anodes for high-performance organic solar cells. <i>Advanced Materials</i> , 2011 , 23, 1514-8	24	437
53	Thermal Conductivity of Polymers and Their Nanocomposites. <i>Advanced Materials</i> , 2018 , 30, e1705544	24	266
52	Interstitial Point Defect Scattering Contributing to High Thermoelectric Performance in SnTe. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600019	6.4	186
51	Large thermoelectricity via variable range hopping in chemical vapor deposition grown single-layer MoS ₂ . <i>Nano Letters</i> , 2014 , 14, 2730-4	11.5	171
50	Antiferromagnetic transition in EuFe ₂ As ₂ : A possible parent compound for superconductors. <i>Physical Review B</i> , 2008 , 78,	3.3	166
49	An innovative way of etching MoS ₂ : Characterization and mechanistic investigation. <i>Nano Research</i> , 2013 , 6, 200-207	10	128
48	Thermal transport in nanostructures. <i>AIP Advances</i> , 2012 , 2, 041410	1.5	113
47	Toward high throughput interconvertible graphene-to-graphene growth and patterning. <i>ACS Nano</i> , 2010 , 4, 6146-52	16.7	100
46	Nonvolatile Floating-Gate Memories Based on Stacked Black Phosphorus/Boron Nitride/MoS ₂ Heterostructures. <i>Advanced Functional Materials</i> , 2015 , 25, 7360-7365	15.6	95
45	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. <i>ACS Nano</i> , 2019 , 13, 1547-1554	16.7	93
44	Anomalous heat conduction and anomalous diffusion in low dimensional nanoscale systems. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	93
43	Metamagnetic transition in EuFe ₂ As ₂ single crystals. <i>New Journal of Physics</i> , 2009 , 11, 025007	2.9	89

42	Superior thermal conductivity in suspended bilayer hexagonal boron nitride. <i>Scientific Reports</i> , 2016 , 6, 25334	4.9	87
41	Thermoelectric Properties of Cu ₂ SnSe ₄ with Intrinsic Vacancy. <i>Chemistry of Materials</i> , 2016 , 28, 6227-6232	3.6	85
40	Graphene related materials for thermal management. <i>2D Materials</i> , 2020 , 7, 012001	5.9	82
39	Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. <i>Small</i> , 2018 , 14, e1801346	11	70
38	Thermal Transport in Conductive Polymer Based Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1904704	15.6	60
37	Epitaxial nucleation and lateral growth of high-crystalline black phosphorus films on silicon. <i>Nature Communications</i> , 2020 , 11, 1330	17.4	56
36	Phonon thermal conduction in novel 2D materials. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 483001	1.8	54
35	A new route to graphene layers by selective laser ablation. <i>AIP Advances</i> , 2011 , 1, 022109	1.5	47
34	Thermal conductivity of suspended few-layer MoS ₂ . <i>Nanoscale</i> , 2018 , 10, 2727-2734	7.7	46
33	Transport properties of graphene with one-dimensional charge defects. <i>Europhysics Letters</i> , 2011 , 94, 28003	1.6	45
32	Measuring the thermal conductivity and interfacial thermal resistance of suspended MoS ₂ using electron beam self-heating technique. <i>Science Bulletin</i> , 2018 , 63, 452-458	10.6	37
31	Conformal hexagonal-boron nitride dielectric interface for tungsten diselenide devices with improved mobility and thermal dissipation. <i>Nature Communications</i> , 2019 , 10, 1188	17.4	32
30	Thermal conduction across a boron nitride and SiO ₂ interface. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 104002	3	29
29	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. <i>National Science Review</i> , 2018 , 5, 500-506	10.8	25
28	Thermal rectification in Y-junction carbon nanotube bundle. <i>Carbon</i> , 2018 , 140, 673-679	10.4	24
27	Relationship between spin state of Co ions and thermopower in La _{1-x} Sr _x CoO ₃ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 351, 431-434	2.3	22
26	Thermal percolation in composite materials with electrically conductive fillers. <i>Applied Physics Letters</i> , 2018 , 113, 041902	3.4	14
25	Thermal transport in organic/inorganic composites. <i>Frontiers in Energy</i> , 2018 , 12, 72-86	2.6	13

24	Magnetic, electrical transport, and thermoelectric properties of Sr ₄ Ru ₃ O ₁₀ : Evidence for a field-induced electronic phase transition at low temperatures. <i>Physical Review B</i> , 2007 , 76,	3.3	13
23	A Ubiquitous Thermal Conductivity Formula for Liquids, Polymer Glass, and Amorphous Solids. <i>Chinese Physics Letters</i> , 2020 , 37, 104401	1.8	11
22	Thickness-Dependent In-Plane Thermal Conductivity and Enhanced Thermoelectric Performance in p-Type ZrTe ₅ Nanoribbons. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800529	2.5	11
21	Elastic Modulus and Thermal Conductivity of Thiolene/TiO Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25568-25575	3.8	10
20	Phonon Renormalization Induced by Electric Field in Ferroelectric Poly(Vinylidene Fluoride)trifluoroethylene) Nanofibers. <i>Physical Review Applied</i> , 2020 , 13,	4.3	9
19	Band-dependent normal-state coherence in Sr ₂ RuO ₄ : evidence from Nernst effect and thermopower measurements. <i>Physical Review Letters</i> , 2008 , 101, 057002	7.4	9
18	Thermal resistance network model for heat conduction of amorphous polymers. <i>Physical Review Materials</i> , 2020 , 4,	3.2	9
17	Thermal conductivity of VO nanowires and their contact thermal conductance. <i>Nanoscale</i> , 2020 , 12, 1138-1143	3.7	9
16	Direct growth of nanographene at low temperature from carbon black for highly sensitive temperature detectors. <i>Nanotechnology</i> , 2016 , 27, 505603	3.4	8
15	Conformal interface of monolayer molybdenum diselenide/disulfide and dielectric substrate with improved thermal dissipation. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 385306	3	6
14	High thermal conductivity and superior thermal stability of amorphous PMDA/ODA nanofiber. <i>Applied Physics Letters</i> , 2018 , 112, 221904	3.4	6
13	Superior Thermal Dissipation in Graphene Electronic Device Through Novel Heat Path by Electron-Phonon Coupling. <i>ES Energy & Environments</i> , 2020 ,	2.9	4
12	Graphene Field-Effect Transistors on Hexagonal-Boron Nitride for Enhanced Interfacial Thermal Dissipation. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000059	6.4	3
11	Nanoscale thermal mapping of few-layer organic crystals. <i>CrystEngComm</i> , 2019 , 21, 5402-5409	3.3	3
10	Suppressed Thermal Conductivity in Polycrystalline Gold Nanofilm: The Effect of Grain Boundary and Substrate. <i>Chinese Physics Letters</i> , 2021 , 38, 027202	1.8	3
9	Thermal conductivity of one-dimensional organic nanowires: effect of mass difference phonon scattering. <i>Nanotechnology</i> , 2020 , 31, 324003	3.4	2
8	Scaling behavior of thermal conductivity in single-crystalline Fe ₂ O ₃ nanowires. <i>Chinese Physics B</i> , 2020 , 29, 084402	1.2	2
7	Surface contacts strongly influence the elasticity and thermal conductivity of silica nanoparticle fibers. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 3707-3715	3.6	2

6	Stabilization of cobalt oxyhydrate superconductor. <i>Chemical Communications</i> , 2008 , 2155-7	5.8	1
5	Effect of magnetic field on the spin-Peierls transition in single-crystal CuGeO. <i>Chinese Physics B</i> , 2008 , 17, 3490-3494	1.2	1
4	Low-energy collective excitations in a charge-density wave conductor K _{0.3} MoO ₃ . <i>Journal of Luminescence</i> , 2006 , 119-120, 395-398	3.8	1
3	Recent progresses of thermal conduction in two-dimensional materials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 196602	0.6	1
2	Unprecedentedly low thermal conductivity of unique tellurium nanoribbons. <i>Nano Research</i> , 1	10	1
1	Thermal manipulation and thermal rectification in stacked organic nanowires. <i>Nanoscale</i> , 2021 , 13, 13641-13649	7.7	0