Xiangfan Xu

List of Publications by Year in Descending Order

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	Surface contacts strongly influence the elasticity and thermal conductivity of silica nanoparticle fibers. *Physical Chemistry Chemical Physics*, **2021**, 23, 3707-3715	3.6	2
58	Suppressed Thermal Conductivity in Polycrystalline Gold Nanofilm: The Effect of Grain Boundary and Substrate. *Chinese Physics Letters*, **2021**, 38, 027202	1.8	3
57	Thermal manipulation and thermal rectification in stacked organic nanowires. *Nanoscale*, **2021**, 13, 13641-13649	7.7	0
56	Graphene Field-Effect Transistors on Hexagonal-Boron Nitride for Enhanced Interfacial Thermal Dissipation. *Advanced Electronic Materials*, **2020**, 6, 2000059	6.4	3
55	Epitaxial nucleation and lateral growth of high-crystalline black phosphorus films on silicon. *Nature Communications*, **2020**, 11, 1330	17.4	56
54	Phonon Renormalization Induced by Electric Field in Ferroelectric Poly(Vinylidene Fluoride-Trifluoroethylene) Nanofibers. *Physical Review Applied*, **2020**, 13,	4.3	9
53	Thermal conductivity of one-dimensional organic nanowires: effect of mass difference phonon scattering. *Nanotechnology*, **2020**, 31, 324003	3.4	2
52	Thermal resistance network model for heat conduction of amorphous polymers. *Physical Review Materials*, **2020**, 4,	3.2	9
51	Superior Thermal Dissipation in Graphene Electronic Device Through Novel Heat Path by Electron-Phonon Coupling. *ES Energy & Environments*, **2020**,	2.9	4
50	Recent progresses of thermal conduction in two-dimensional materials. *Wuli Xuebao/Acta Physica Sinica*, **2020**, 69, 196602	0.6	1
49	Scaling behavior of thermal conductivity in single-crystalline Fe2O3 nanowires. *Chinese Physics B*, **2020**, 29, 084402	1.2	2
48	Thermal conductivity of VO nanowires and their contact thermal conductance. *Nanoscale*, **2020**, 12, 1138-1143	7.7	9
47	A Ubiquitous Thermal Conductivity Formula for Liquids, Polymer Glass, and Amorphous Solids. *Chinese Physics Letters*, **2020**, 37, 104401	1.8	11
46	Graphene related materials for thermal management. *2D Materials*, **2020**, 7, 012001	5.9	82
45	Thermal Transport in Conductive Polymer-Based Materials. *Advanced Functional Materials*, **2020**, 30, 1904704	15.6	60
44	Conformal interface of monolayer molybdenum diselenide/disulfide and dielectric substrate with improved thermal dissipation. *Journal Physics D: Applied Physics*, **2019**, 52, 385306	3	6
43	Conformal hexagonal-boron nitride dielectric interface for tungsten diselenide devices with improved mobility and thermal dissipation. *Nature Communications*, **2019**, 10, 1188	17.4	32

42	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. *ACS Nano*, **2019**, 13, 1547-1554	16.7	93
41	Nanoscale thermal mapping of few-layer organic crystals. *CrystEngComm*, **2019**, 21, 5402-5409	3.3	3
40	Thickness-Dependent In-Plane Thermal Conductivity and Enhanced Thermoelectric Performance in p-Type ZrTe5 Nanoribbons. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800529	2.5	11
39	Thermal Conductivity of Polymers and Their Nanocomposites. *Advanced Materials*, **2018**, 30, e1705544	24	266
38	Thermal transport in organic/inorganic composites. *Frontiers in Energy*, **2018**, 12, 72-86	2.6	13
37	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. *National Science Review*, **2018**, 5, 500-506	10.8	25
36	Thermal conductivity of suspended few-layer MoS. *Nanoscale*, **2018**, 10, 2727-2734	7.7	46
35	Measuring the thermal conductivity and interfacial thermal resistance of suspended MoS 2 using electron beam self-heating technique. *Science Bulletin*, **2018**, 63, 452-458	10.6	37
34	Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. *Small*, **2018**, 14, e1801346	11	70
33	Thermal percolation in composite materials with electrically conductive fillers. *Applied Physics Letters*, **2018**, 113, 041902	3.4	14
32	High thermal conductivity and superior thermal stability of amorphous PMDA/ODA nanofiber. *Applied Physics Letters*, **2018**, 112, 221904	3.4	6
31	Thermal rectification in Y-junction carbon nanotube bundle. *Carbon*, **2018**, 140, 673-679	10.4	24
30	Thermal conduction across a boron nitride and SiO2interface. *Journal Physics D: Applied Physics*, **2017**, 50, 104002	3	29
29	Elastic Modulus and Thermal Conductivity of Thiolene/TiO Nanocomposites. *Journal of Physical Chemistry C*, **2017**, 121, 25568-25575	3.8	10
28	Thermoelectric Properties of Cu2SnSe4with Intrinsic Vacancy. *Chemistry of Materials*, **2016**, 28, 6227-6232	9.6	85
27	Superior thermal conductivity in suspended bilayer hexagonal boron nitride. *Scientific Reports*, **2016**, 6, 25334	4.9	87
26	Interstitial Point Defect Scattering Contributing to High Thermoelectric Performance in SnTe. *Advanced Electronic Materials*, **2016**, 2, 1600019	6.4	186
25	Direct growth of nanographene at low temperature from carbon black for highly sensitive temperature detectors. *Nanotechnology*, **2016**, 27, 505603	3.4	8

24	Phonon thermal conduction in novel 2D materials. *Journal of Physics Condensed Matter*, **2016**, 28, 483001	1.8	54
23	Nonvolatile Floating-Gate Memories Based on Stacked Black Phosphorus□Boron Nitride□MoS2 Heterostructures. *Advanced Functional Materials*, **2015**, 25, 7360-7365	15.6	95
22	Length-dependent thermal conductivity in suspended single-layer graphene. *Nature Communications*, **2014**, 5, 3689	17.4	603
21	Large thermoelectricity via variable range hopping in chemical vapor deposition grown single-layer MoS2. *Nano Letters*, **2014**, 14, 2730-4	11.5	171
20	An innovative way of etching MoS2: Characterization and mechanistic investigation. *Nano Research*, **2013**, 6, 200-207	10	128
19	Anomalous heat conduction and anomalous diffusion in low dimensional nanoscale systems. *European Physical Journal B*, **2012**, 85, 1	1.2	93
18	Thermal transport in nanostructures. *AIP Advances*, **2012**, 2, 041410	1.5	113
17	Electrochemical delamination of CVD-grown graphene film: toward the recyclable use of copper catalyst. *ACS Nano*, **2011**, 5, 9927-33	16.7	451
16	Graphene for controlled and accelerated osteogenic differentiation of human mesenchymal stem cells. *ACS Nano*, **2011**, 5, 4670-8	16.7	724
15	Interface engineering of layer-by-layer stacked graphene anodes for high-performance organic solar cells. *Advanced Materials*, **2011**, 23, 1514-8	24	437
14	A new route to graphene layers by selective laser ablation. *AIP Advances*, **2011**, 1, 022109	1.5	47
13	Transport properties of graphene with one-dimensional charge defects. *Europhysics Letters*, **2011**, 94, 28003	1.6	45
12	Roll-to-roll production of 30-inch graphene films for transparent electrodes. *Nature Nanotechnology*, **2010**, 5, 574-8	28.7	6507
11	Toward high throughput interconvertible graphane-to-graphene growth and patterning. *ACS Nano*, **2010**, 4, 6146-52	16.7	100
10	Metamagnetic transition in EuFe2As2single crystals. *New Journal of Physics*, **2009**, 11, 025007	2.9	89
9	Thorium-doping□nduced superconductivity up to 56 K in Gd 1□ Th x FeAsO. *Europhysics Letters*, **2008**, 83, 67006	1.6	536
8	Antiferromagnetic transition in EuFe2As2: A possible parent compound for superconductors. *Physical Review B*, **2008**, 78,	3.3	166
7	Stabilization of cobalt oxyhydrate superconductor. *Chemical Communications*, **2008**, 2155-7	5.8	1

6	Effect of magnetic field on the spin-Peierls transition in single-crystal CuGeO. *Chinese Physics B*, **2008**, 17, 3490-3494	1.2	1
5	Band-dependent normal-state coherence in Sr2RuO4: evidence from Nernst effect and thermopower measurements. *Physical Review Letters*, **2008**, 101, 057002	7.4	9
4	Magnetic, electrical transport, and thermoelectric properties of Sr4Ru3O10: Evidence for a field-induced electronic phase transition at low temperatures. *Physical Review B*, **2007**, 76,	3.3	13
3	Relationship between spin state of Co ions and thermopower in La1−SrxCoO3. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 351, 431-434	2.3	22
2	Low-energy collective excitations in a charge-density wave conductor K0.3MoO3. *Journal of Luminescence*, **2006**, 119-120, 395-398	3.8	1
1	Unprecedently low thermal conductivity of unique tellurium nanoribbons. *Nano Research*,1	10	1