

Xiangfan Xu

List of Publications by Year in descending order

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papers

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126907

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling Electronic and Phonon Thermal Transport in Poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) Nanofibers. <i>Nanomaterials</i> , 2022, 12, 1282.	4.1	2
2	Interfacial thermal resistance: Past, present, and future. <i>Reviews of Modern Physics</i> , 2022, 94, .	45.6	178
3	Surface contacts strongly influence the elasticity and thermal conductivity of silica nanoparticle fibers. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 3707-3715.	2.8	7
4	Suppressed Thermal Conductivity in Polycrystalline Gold Nanofilm: The Effect of Grain Boundary and Substrate. <i>Chinese Physics Letters</i> , 2021, 38, 027202.	3.3	12
5	Unprecedentedly low thermal conductivity of unique tellurium nanoribbons. <i>Nano Research</i> , 2021, 14, 4725-4731.	10.4	14
6	Thermal Conductivity of VO ₂ Nanowires at Metal-Insulator Transition Temperature. <i>Nanomaterials</i> , 2021, 11, 2428.	4.1	5
7	Thermal manipulation and thermal rectification in ĩ€-stacked organic nanowires. <i>Nanoscale</i> , 2021, 13, 13641-13649.	5.6	4
8	Dimension reduction induced anisotropic magnetic thermal conductivity in hematite nanowires. <i>Physical Review B</i> , 2021, 104, .	3.2	1
9	Graphene related materials for thermal management. <i>2D Materials</i> , 2020, 7, 012001.	4.4	161
10	Thermal Transport in Conductive Polymerâ€“Based Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1904704.	14.9	122
11	Thermal conductivity of V₂O₅ nanowires and their contact thermal conductance. <i>Nanoscale</i> , 2020, 12, 1138-1143.	5.6	15
12	A Ubiquitous Thermal Conductivity Formula for Liquids, Polymer Glass, and Amorphous Solids*. <i>Chinese Physics Letters</i> , 2020, 37, 104401.	3.3	33
13	Graphene Fieldâ€“Effect Transistors on Hexagonalâ€“Boron Nitride for Enhanced Interfacial Thermal Dissipation. <i>Advanced Electronic Materials</i> , 2020, 6, 2000059.	5.1	8
14	Epitaxial nucleation and lateral growth of high-crystalline black phosphorus films on silicon. <i>Nature Communications</i> , 2020, 11, 1330.	12.8	102
15	Phonon Renormalization Induced by Electric Field in Ferroelectric Poly(Vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td	3.8	18
16	Thermal conductivity of one-dimensional organic nanowires: effect of mass difference phonon scattering. <i>Nanotechnology</i> , 2020, 31, 324003.	2.6	3
17	Scaling behavior of thermal conductivity in single-crystalline Ĩ±-Fe₂O₃ nanowires*. <i>Chinese Physics B</i> , 2020, 29, 084402.	1.4	7
18	Thermal resistance network model for heat conduction of amorphous polymers. <i>Physical Review Materials</i> , 2020, 4, .	2.4	19

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19	Superior Thermal Dissipation in Graphene Electronic Device Through Novel Heat Path by Electron-Phonon Coupling. <i>ES Energy & Environments</i> , 2020, , .	1.1	7
20	Recent progresses of thermal conduction in two-dimensional materials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 196602.	0.5	12
21	Nanoscale thermal mapping of few-layer organic crystals. <i>CrystEngComm</i> , 2019, 21, 5402-5409.	2.6	5
22	Conformal interface of monolayer molybdenum diselenide/disulfide and dielectric substrate with improved thermal dissipation. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 385306.	2.8	9
23	Conformal hexagonal-boron nitride dielectric interface for tungsten diselenide devices with improved mobility and thermal dissipation. <i>Nature Communications</i> , 2019, 10, 1188.	12.8	71
24	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. <i>ACS Nano</i> , 2019, 13, 1547-1554.	14.6	131
25	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.	2.4	22
26	Thermal Conductivity of Polymers and Their Nanocomposites. <i>Advanced Materials</i> , 2018, 30, e1705544.	21.0	442
27	Thermal transport in organic/inorganic composites. <i>Frontiers in Energy</i> , 2018, 12, 72-86.	2.3	13
28	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. <i>National Science Review</i> , 2018, 5, 500-506.	9.5	43
29	Thermal conductivity of suspended few-layer MoS ₂ . <i>Nanoscale</i> , 2018, 10, 2727-2734.	5.6	70
30	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.	9.0	54
31	Thermal rectification in Y-junction carbon nanotube bundle. <i>Carbon</i> , 2018, 140, 673-679.	10.3	42
32	Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. <i>Small</i> , 2018, 14, e1801346.	10.0	106
33	Thermal percolation in composite materials with electrically conductive fillers. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	22
34	High thermal conductivity and superior thermal stability of amorphous PMDA/ODA nanofiber. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	12
35	Thermal conduction across a boron nitride and SiO ₂ interface. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 104002.	2.8	46
36	Elastic Modulus and Thermal Conductivity of Thiolene/TiO ₂ Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25568-25575.	3.1	18

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37	Direct growth of nanographene at low temperature from carbon black for highly sensitive temperature detectors. <i>Nanotechnology</i> , 2016, 27, 505603.	2.6	10
38	Phonon thermal conduction in novel 2D materials. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 483001.	1.8	81
39	Thermoelectric Properties of Cu ₂ SnSe ₄ with Intrinsic Vacancy. <i>Chemistry of Materials</i> , 2016, 28, 6227-6232.	6.7	115
40	Superior thermal conductivity in suspended bilayer hexagonal boron nitride. <i>Scientific Reports</i> , 2016, 6, 25334.	3.3	124
41	Interstitial Point Defect Scattering Contributing to High Thermoelectric Performance in SnTe. <i>Advanced Electronic Materials</i> , 2016, 2, 1600019.	5.1	235
42	Nonvolatile Floating-Gate Memories Based on Stacked Black Phosphorus-Boron Nitride-MoS ₂ Heterostructures. <i>Advanced Functional Materials</i> , 2015, 25, 7360-7365.	14.9	129
43	Artificial microstructure materials and heat flux manipulation. <i>Zhongguo Kexue Jishu Kexue/Sinica Technologica</i> , 2015, 45, 705-713.	0.5	1
44	Length-dependent thermal conductivity in suspended single-layer graphene. <i>Nature Communications</i> , 2014, 5, 3689.	12.8	735
45	Large Thermoelectricity via Variable Range Hopping in Chemical Vapor Deposition Grown Single-Layer MoS ₂ . <i>Nano Letters</i> , 2014, 14, 2730-2734.	9.1	210
46	An innovative way of etching MoS ₂ : Characterization and mechanistic investigation. <i>Nano Research</i> , 2013, 6, 200-207.	10.4	140
47	Anomalous heat conduction and anomalous diffusion in low dimensional nanoscale systems. <i>European Physical Journal B</i> , 2012, 85, 1.	1.5	106
48	Thermal transport in nanostructures. <i>AIP Advances</i> , 2012, 2, .	1.3	138
49	Electrochemical Delamination of CVD-Grown Graphene Film: Toward the Recyclable Use of Copper Catalyst. <i>ACS Nano</i> , 2011, 5, 9927-9933.	14.6	529
50	Graphene for Controlled and Accelerated Osteogenic Differentiation of Human Mesenchymal Stem Cells. <i>ACS Nano</i> , 2011, 5, 4670-4678.	14.6	819
51	Interface Engineering of Layer-by-Layer Stacked Graphene Anodes for High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2011, 23, 1514-1518.	21.0	489
52	A new route to graphene layers by selective laser ablation. <i>AIP Advances</i> , 2011, 1, .	1.3	56
53	Transport properties of graphene with one-dimensional charge defects. <i>Europhysics Letters</i> , 2011, 94, 28003.	2.0	63
54	Roll-to-roll production of 30-inch graphene films for transparent electrodes. <i>Nature Nanotechnology</i> , 2010, 5, 574-578.	31.5	7,294

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55	Toward High Throughput Interconvertible Graphane-to-Graphene Growth and Patterning. ACS Nano, 2010, 4, 6146-6152.	14.6	109
56	Metamagnetic transition in EuFe_2As_2 single crystals. New Journal of Physics, 2009, 11, 025007.	2.9	109
57	Thorium-doping-induced superconductivity up to 56 K in $\text{Gd}_x\text{Th}_{1-x}\text{FeAsO}$. Europhysics Letters, 2008, 83, 67006.	2.0	576
58	Antiferromagnetic transition in EuFe_2As_2 . A possible parent compound for superconductors. Physical Review B, 2008, 78, .	2.4	185
59	Stabilization of cobalt oxyhydrate superconductor. Chemical Communications, 2008, , 2155.	4.1	2
60	Effect of magnetic field on the spin-Peierls transition in single-crystal CuGeO . Chinese Physics B, 2008, 17, 3490-3494.	1.4	1
61	Band-Dependent Normal-State Coherence in Ru_2O_7 . Evidence from Nernst Effect and Thermopower Measurements. Physical Review Letters, 2008, 101, .	2.0	15
62	Magnetic, electrical transport, and thermoelectric properties of $\text{Sr}_4\text{Ru}_3\text{O}_{10}$. Evidence for a field-induced electronic phase transition at low temperatures. Physical Review B, 2007, .	3.2	14
63	Relationship between spin state of Co ions and thermopower in $\text{La}_x\text{Sr}_{1-x}\text{CoO}_3$. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 351, 431-434.	2.1	27
64	Low-energy collective excitations in a charge-density wave conductor $\text{K}_0.3\text{MoO}_3$. Journal of Luminescence, 2006, 119-120, 395-398.	3.1	1