

Jun Liu

List of Publications by Year in Descending Order

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Version: 2024-04-19

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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.

47
papers

2,252
citations

20
h-index

47
g-index

49
ext. papers

2,577
ext. citations

4.7
avg, IF

5.17
L-index

#	Paper	IF	Citations
47	Thermal percolation and electrical insulation in composite materials with partially metallic coated fillers. <i>Applied Physics Letters</i> , 2021 , 119, 211602	3.4	1
46	Thermal boundary conductance across solid-solid interfaces at high temperatures: A microscopic approach. <i>Journal of Applied Physics</i> , 2021 , 129, 195102	2.5	3
45	Evaluating the roles of temperature-dependent eigenvectors in predicting phonon transport properties of anharmonic crystals using normal mode analysis methods. <i>Journal of Applied Physics</i> , 2021 , 129, 215102	2.5	1
44	Parallel Frameworks for Robust Optimization of Medium-Frequency Transformers. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 5097-5112	5.6	1
43	Molecular dynamics simulation of thermal transport in semicrystalline polyethylene: Roles of strain and the crystalline-amorphous interphase region. <i>Journal of Applied Physics</i> , 2021 , 130, 225101	2.5	1
42	Synergistic Effects of Boron Nitride (BN) Nanosheets and Silver (Ag) Nanoparticles on Thermal Conductivity and Electrical Properties of Epoxy Nanocomposites. <i>Polymers</i> , 2020 , 12,	4.5	29
41	In-Plane Thermoelectric Properties of Flexible and Room-Temperature-Doped Carbon Nanotube Films. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6929-6936	6.1	13
40	Strong electron-phonon coupling induced anomalous phonon transport in ultrahigh temperature ceramics ZrB ₂ and TiB ₂ . <i>International Journal of Heat and Mass Transfer</i> , 2020 , 152, 119481	4.9	7
39	Thermal resistance network model for heat conduction of amorphous polymers. <i>Physical Review Materials</i> , 2020 , 4,	3.2	9
38	Superior Thermal Dissipation in Graphene Electronic Device Through Novel Heat Path by Electron-Phonon Coupling. <i>ES Energy & Environments</i> , 2020 ,	2.9	4
37	A skin layer made of cured polysilazane and yttria stabilized zirconia for enhanced thermal protection of carbon fiber reinforced polymers (CFRPs). <i>Surface and Coatings Technology</i> , 2020 , 404, 126481	4.4	0
36	Efficiency improvement of liquid piston compressor using metal wire mesh for near-isothermal compressed air energy storage application. <i>Journal of Energy Storage</i> , 2020 , 28, 101226	7.8	11
35	A Ubiquitous Thermal Conductivity Formula for Liquids, Polymer Glass, and Amorphous Solids. <i>Chinese Physics Letters</i> , 2020 , 37, 104401	1.8	11
34	Size Effects in the Thermal Conductivity of Amorphous Polymers. <i>Physical Review Applied</i> , 2020 , 14,	4.3	9
33	Designing high thermal conductivity of cross-linked epoxy resin via molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19735-19745	3.6	11
32	Sono-Assisted Surface Energy Driven Assembly of 2D Materials on Flexible Polymer Substrates: A Green Assembly Method Using Water. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33458-33464	9.5	11
31	Enhanced thermoelectric properties through minority carriers blocking in nanocomposites. <i>Journal of Applied Physics</i> , 2019 , 126, 095107	2.5	3

30	Optimization of Medium Frequency Transformers with Practical Considerations 2019 ,		2
29	Roles of kink on the thermal transport in single polyethylene chains. <i>Journal of Applied Physics</i> , 2019 , 125, 164303	2.5	14
28	Role of radiation in heat transfer from nanoparticles to gas media in photothermal measurements. <i>International Journal of Modern Physics C</i> , 2019 , 30, 1950024	1.1	9
27	Role of angular bending freedom in regulating thermal transport in polymers. <i>Journal of Applied Physics</i> , 2019 , 125, 095104	2.5	8
26	On the importance of using exact full phonon dispersions for predicting interfacial thermal conductance of layered materials using diffuse mismatch model. <i>AIP Advances</i> , 2019 , 9, 115116	1.5	6
25	Strain effects on the anisotropic thermal transport in crystalline polyethylene. <i>Applied Physics Letters</i> , 2018 , 112, 051907	3.4	21
24	Thermal transport in semicrystalline polyethylene by molecular dynamics simulation. <i>Journal of Applied Physics</i> , 2018 , 123, 015107	2.5	27
23	Disorder enhanced thermal conductivity anisotropy in two-dimensional materials and van der Waals heterostructures. <i>Journal of Applied Physics</i> , 2018 , 124, 055104	2.5	8
22	Thermal percolation in composite materials with electrically conductive fillers. <i>Applied Physics Letters</i> , 2018 , 113, 041902	3.4	14
21	Solution-Processed CuSe Nanocrystal Films with Bulk-Like Thermoelectric Performance. <i>Scientific Reports</i> , 2017 , 7, 2765	4.9	17
20	Thermoelectric transport in hybrid materials incorporating metallic nanowires in polymer matrix. <i>Applied Physics Letters</i> , 2017 , 110, 113102	3.4	14
19	Analytical and numerical investigation on a new compact thermoelectric generator. <i>Energy Conversion and Management</i> , 2017 , 132, 261-271	10.6	44
18	Tuning thermal conductivity in molybdenum disulfide by electrochemical intercalation. <i>Nature Communications</i> , 2016 , 7, 13211	17.4	101
17	Anisotropic Thermal Transport in Thermoelectric Composites of Conjugated Polyelectrolytes/Single-Walled Carbon Nanotubes. <i>Macromolecules</i> , 2016 , 49, 4957-4963	5.5	26
16	Thermal Conductivity, Heat Capacity, and Elastic Constants of Water-Soluble Polymers and Polymer Blends. <i>Macromolecules</i> , 2016 , 49, 972-978	5.5	156
15	Harvesting Waste Heat in Unipolar Ion Conducting Polymers. <i>ACS Macro Letters</i> , 2016 , 5, 94-98	6.6	49
14	Electrochemical Effects in Thermoelectric Polymers. <i>ACS Macro Letters</i> , 2016 , 5, 455-459	6.6	50
13	Thermal Conductivity in the Radial Direction of Deformed Polymer Fibers. <i>ACS Macro Letters</i> , 2016 , 5, 646-650	6.6	17

12	Thermal Conductivity and Elastic Constants of PEDOT:PSS with High Electrical Conductivity. <i>Macromolecules</i> , 2015 , 48, 585-591	5.5	209
11	Measurement of the anisotropic thermal conductivity of molybdenum disulfide by the time-resolved magneto-optic Kerr effect. <i>Journal of Applied Physics</i> , 2014 , 116, 233107	2.5	173
10	Size effect on the thermal conductivity of ultrathin polystyrene films. <i>Applied Physics Letters</i> , 2014 , 104, 153110	3.4	32
9	Pump-probe measurements of the thermal conductivity tensor for materials lacking in-plane symmetry. <i>Review of Scientific Instruments</i> , 2014 , 85, 104903	1.7	76
8	Ultralow thermal conductivity of atomic/molecular layer-deposited hybrid organic-inorganic zincine thin films. <i>Nano Letters</i> , 2013 , 13, 5594-9	11.5	82
7	Thermoelectric Transport Across Nanoscale Polymer/Semiconductor/Polymer Junctions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24716-24725	3.8	15
6	Simultaneous measurement of thermal conductivity and heat capacity of bulk and thin film materials using frequency-dependent transient thermoreflectance method. <i>Review of Scientific Instruments</i> , 2013 , 84, 034902	1.7	96
5	Thermal transport across carbon nanotubes connected by molecular linkers. <i>Carbon</i> , 2012 , 50, 1063-1070	0.4	31
4	Length-dependent thermal conductivity of single extended polymer chains. <i>Physical Review B</i> , 2012 , 86,	3.3	132
3	Electrochemically Induced High Capacity Displacement Reaction of PEO/MoS ₂ /Graphene Nanocomposites with Lithium. <i>Advanced Functional Materials</i> , 2011 , 21, 2840-2846	15.6	461
2	Tuning the thermal conductivity of polymers with mechanical strains. <i>Physical Review B</i> , 2010 , 81,	3.3	126
1	Ultrafast thermoreflectance techniques for measuring thermal conductivity and interface thermal conductance of thin films. <i>Journal of Applied Physics</i> , 2010 , 108, 094315	2.5	111