

Joon Sang Kang

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,107
citations

516710

16
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

1530
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental observation of high thermal conductivity in boron arsenide. <i>Science</i> , 2018, 361, 575-578.	12.6	381
2	A Solution Processable High-Performance Thermoelectric Copper Selenide Thin Film. <i>Advanced Materials</i> , 2017, 29, 1606662.	21.0	96
3	Ionic Intercalation in Two-Dimensional van der Waals Materials: In Situ Characterization and Electrochemical Control of the Anisotropic Thermal Conductivity of Black Phosphorus. <i>Nano Letters</i> , 2017, 17, 1431-1438.	9.1	95
4	Thermal Properties and Phonon Spectral Characterization of Synthetic Boron Phosphide for High Thermal Conductivity Applications. <i>Nano Letters</i> , 2017, 17, 7507-7514.	9.1	90
5	Integration of boron arsenide cooling substrates into gallium nitride devices. <i>Nature Electronics</i> , 2021, 4, 416-423.	26.0	50
6	Basic physical properties of cubic boron arsenide. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	48
7	Observation of strong higher-order lattice anharmonicity in Raman and infrared spectra. <i>Physical Review B</i> , 2020, 101, .	3.2	43
8	Intrinsic Low Thermal Conductivity and Phonon Renormalization Due to Strong Anharmonicity of Single-Crystal Tin Selenide. <i>Nano Letters</i> , 2019, 19, 4941-4948.	9.1	41
9	Anisotropic thermal conductivity measurement using a new Asymmetric-Beam Time-Domain Thermoreflectance (AB-TDTR) method. <i>Review of Scientific Instruments</i> , 2018, 89, 084901.	1.3	40
10	High-performance field emission based on nanostructured tin selenide for nanoscale vacuum transistors. <i>Nanoscale</i> , 2019, 11, 3129-3137.	5.6	39
11	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. <i>CheM</i> , 2021, 7, 1887-1902.	11.7	36
12	High-Performance Solution-Processable Flexible SnSe Nanosheet Films for Lower Grade Waste Heat Recovery. <i>Advanced Electronic Materials</i> , 2019, 5, 1800774.	5.1	32
13	Ultralight and Flexible Monolithic Polymer Aerogel with Extraordinary Thermal Insulation by A Facile Ambient Process. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900314.	3.7	29
14	Anisotropic Thermal Boundary Resistance across 2D Black Phosphorus: Experiment and Atomistic Modeling of Interfacial Energy Transport. <i>Advanced Materials</i> , 2019, 31, e1901021.	21.0	26
15	Exploring the Effect of Porous Structure on Thermal Conductivity in Templated Mesoporous Silica Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21721-21730.	3.1	19
16	Thick Transparent Nanoparticle-Based Mesoporous Silica Monolithic Slabs for Thermally Insulating Window Materials. <i>ACS Applied Nano Materials</i> , 2019, 2, 4547-4555.	5.0	16
17	Engineering mesoporous silica for superior optical and thermal properties. <i>MRS Energy & Sustainability</i> , 2020, 7, 1.	3.0	11
18	Controlling Thermal Conductivity in Mesoporous Silica Films Using Pore Size and Nanoscale Architecture. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3731-3737.	4.6	8

#	ARTICLE	IF	CITATIONS
19	Examining the Role of Atomic Scale Heterogeneity on the Thermal Conductivity of Transparent, Thermally Insulating, Mesoporous Silica-Titania Thin Films. Journal of Physical Chemistry C, 2020, 124, 27442-27452.	3.1	4
20	Identifying the Dirac point composition in Bi _{1-x} Sb _x alloys using the temperature dependence of quantum oscillations. Journal of Applied Physics, 2021, 130, 225106.	2.5	3