

# Joon Sang Kang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/887866/publications.pdf>

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	Integration of boron arsenide cooling substrates into gallium nitride devices. Nature Electronics, 2021, 4, 416-423.	26.0	50
2	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. Chem, 2021, 7, 1887-1902.	11.7	36
3	Identifying the Dirac point composition in Bi <sub>x</sub> Sb <sub>1-x</sub> alloys using the temperature dependence of quantum oscillations. Journal of Applied Physics, 2021, 130, 225106.	2.5	3
4	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
5	Observation of strong higher-order lattice anharmonicity in Raman and infrared spectra. Physical Review B, 2020, 101, .	3.2	43
6	Controlling Thermal Conductivity in Mesoporous Silica Films Using Pore Size and Nanoscale Architecture. Journal of Physical Chemistry Letters, 2020, 11, 3731-3737.	4.6	8
7	Engineering mesoporous silica for superior optical and thermal properties. MRS Energy & Sustainability, 2020, 7, 1.	3.0	11
8	Thick Transparent Nanoparticle-Based Mesoporous Silica Monolithic Slabs for Thermally Insulating Window Materials. ACS Applied Nano Materials, 2019, 2, 4547-4555.	5.0	16
9	Intrinsic Low Thermal Conductivity and Phonon Renormalization Due to Strong Anharmonicity of Single-Crystal Tin Selenide. Nano Letters, 2019, 19, 4941-4948.	9.1	41
10	Basic physical properties of cubic boron arsenide. Applied Physics Letters, 2019, 115, .	3.3	48
11	Exploring the Effect of Porous Structure on Thermal Conductivity in Templated Mesoporous Silica Films. Journal of Physical Chemistry C, 2019, 123, 21721-21730.	3.1	19
12	High-performance field emission based on nanostructured tin selenide for nanoscale vacuum transistors. Nanoscale, 2019, 11, 3129-3137.	5.6	39
13	Ultralight and Flexible Monolithic Polymer Aerogel with Extraordinary Thermal Insulation by A Facile Ambient Process. Advanced Materials Interfaces, 2019, 6, 1900314.	3.7	29
14	Anisotropic Thermal Boundary Resistance across 2D Black Phosphorus: Experiment and Atomistic Modeling of Interfacial Energy Transport. Advanced Materials, 2019, 31, e1901021.	21.0	26
15	High-Performance Solution-Processable Flexible SnSe Nanosheet Films for Lower Grade Waste Heat Recovery. Advanced Electronic Materials, 2019, 5, 1800774.	5.1	32
16	Experimental observation of high thermal conductivity in boron arsenide. Science, 2018, 361, 575-578.	12.6	381
17	Anisotropic thermal conductivity measurement using a new Asymmetric-Beam Time-Domain Thermoreflectance (AB-TDTR) method. Review of Scientific Instruments, 2018, 89, 084901.	1.3	40
18	Ionic Intercalation in Two-Dimensional van der Waals Materials: In Situ Characterization and Electrochemical Control of the Anisotropic Thermal Conductivity of Black Phosphorus. Nano Letters, 2017, 17, 1431-1438.	9.1	95

#	ARTICLE	IF	CITATIONS
19	A Solution Processable High-Performance Thermoelectric Copper Selenide Thin Film. <i>Advanced Materials</i> , 2017, 29, 1606662.	21.0	96
20	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