

Byoung Don Kong

List of Publications by Year in descending order

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31
papers

611
citations

840776

11
h-index

580821

25
g-index

31
all docs

31
docs citations

31
times ranked

998
citing authors

#	ARTICLE	IF	CITATIONS
1	First-principles analysis of lattice thermal conductivity in monolayer and bilayer graphene. Physical Review B, 2009, 80, .	3.2	189
2	Band Engineering and Magnetic Doping of Epitaxial Graphene on SiC (0001). Physical Review Letters, 2010, 104, 146801.	7.8	63
3	Unusual magnetoresistance in a topological insulator with a single ferromagnetic barrier. Applied Physics Letters, 2011, 98, 243112.	3.3	57
4	First-principles calculation of thermal transport in metal/graphene systems. Physical Review B, 2013, 87, .	3.2	56
5	Phonon engineering in nanostructures: Controlling interfacial thermal resistance in multilayer-graphene/dielectric heterojunctions. Applied Physics Letters, 2012, 101, 113111.	3.3	46
6	Ultra-broadband photodetectors based on epitaxial graphene quantum dots. Nanophotonics, 2018, 7, 735-740.	6.0	28
7	Two dimensional crystal tunneling devices for THz operation. Applied Physics Letters, 2012, 101, .	3.3	27
8	Thermal transport properties of metal/MoS2 interfaces from first principles. Journal of Applied Physics, 2014, 116, .	2.5	25
9	Strong substrate effects of Joule heating in graphene electronics. Applied Physics Letters, 2011, 99, .	3.3	23
10	Hot-Electron Transistors for Terahertz Operation Based on Two-Dimensional Crystal Heterostructures. Physical Review Applied, 2014, 2, .	3.8	18
11	Solar Cell Using Hourglass-Shaped Silicon Nanowires for Increased Light-Trapping Path. IEEE Journal of Photovoltaics, 2020, 10, 475-479.	2.5	13
12	Terahertz emission mediated by surface plasmon polaritons in doped semiconductors with surface grating. Journal of Applied Physics, 2008, 103, 056101.	2.5	9
13	Field emission energy distribution and three-terminal current-voltage characteristics from planar graphene edges. Journal of Applied Physics, 2019, 125, 054502.	2.5	9
14	Universal conformal ultrathin dielectrics on epitaxial graphene enabled by a graphene oxide seed layer. Applied Physics Letters, 2017, 110, .	3.3	8
15	High-Voltage Drain-Extended FinFET With a High- ϵ Dielectric Field Plate. IEEE Transactions on Electron Devices, 2020, 67, 1077-1084.	3.0	7
16	Thermal conductivity reduction by scallop shaped surface modulation in silicon nanowires. Applied Physics Letters, 2020, 116, .	3.3	5
17	Quasimonochromatic emission spectra in the near field by polar semiconductor thermal sources. Applied Physics Letters, 2007, 90, 113106.	3.3	4
18	Planar graphene vacuum transistor performance potential. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
19	Weakly Tapered Silicon Nanopillar Resonators with Spatially Well-Separated Whispering Gallery Modes for Si-Based Lasers. ACS Applied Nano Materials, 2019, 2, 4852-4858.	5.0	4
20	Quasi-Coherent Thermal Emission in the Terahertz by Doped Semiconductors. IEEE Sensors Journal, 2010, 10, 443-450.	4.7	3
21	Disorder Originated Unusual Mobility in Crystalline InGaZnO ₄ . IEEE Electron Device Letters, 2020, 41, 872-875.	3.9	3
22	Hot electron inelastic scattering and transmission across graphene surfaces. Journal of Applied Physics, 2017, 121, .	2.5	2
23	Electrical and Data-Retention Characteristics of Two-Terminal Thyristor Random Access Memory. IEEE Open Journal of Nanotechnology, 2020, 1, 163-169.	2.0	2
24	Enhanced thermoelectric properties of cobalt silicide-silicon heterostructured nanowires. IEEE Nanotechnology Magazine, 2020, , 1-1.	2.0	2
25	Toward stimulated interaction of surface phonon polaritons. Journal of Applied Physics, 2013, 114, 233508.	2.5	1
26	Field emission from gated planar graphene edges. , 2018, , .		1
27	Tunable optical property and zero-field splitting of transition metal adatom-graphene quantum dot systems. Journal of Materials Chemistry C, 2021, 9, 12550-12558.	5.5	1
28	Highly Reliable Memory Operation of High-Density Three-Terminal Thyristor Random Access Memory. Nanoscale Research Letters, 2022, 17, 28.	5.7	1
29	Field Emission Energy Distribution from Planar Integrated Graphene. , 2018, , .		0
30	Planar Graphene Edge Field Emitter Design with Improved Emission Current. , 2019, , .		0
31	Corrections to "Solar Cell Using Hourglass-Shaped Silicon Nanowires for Increased Light-Trapping Path"[Mar 20 475-479]. IEEE Journal of Photovoltaics, 2020, 10, 1508-1508.	2.5	0