Zhun-Yong Ong

List of Publications by Year in Descending Order

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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.

51	3,208 citations	25	56
papers		h-index	g-index
66	3,568 ext. citations	5.6	5.59
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
51	The role of flexural coupling in heat dissipation from a two-dimensional layered material to its hexagonal boron nitride substrate. <i>2D Materials</i> , 2021 , 8, 035032	5.9	Ο
50	Complementary local-global approach for phonon mode connectivities. <i>Journal of Physics Communications</i> , 2021 , 5, 015010	1.2	2
49	Specular transmission and diffuse reflection in phonon scattering at grain boundary. <i>Europhysics Letters</i> , 2021 , 133, 66002	1.6	1
48	Structure-specific mode-resolved phonon coherence and specularity at graphene grain boundaries. <i>Physical Review B</i> , 2020 , 101,	3.3	4
47	Gate-tunable cross-plane heat dissipation in single-layer transition metal dichalcogenides. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
46	Kinetic Monte Carlo Simulations of Effect of Grain Boundary Variability on Forming Times of RRAM Conductive Filaments. <i>Minerals, Metals and Materials Series</i> , 2020 , 1039-1045	0.3	
45	Theoretical analysis of thermal boundary conductance of MoS-SiOand WS-SiOinterface. <i>Nanotechnology</i> , 2020 ,	3.4	3
44	Energy dissipation in van der Waals 2D devices. 2D Materials, 2019, 6, 032005	5.9	13
43	First-principles analysis of structural stability, electronic and phonon transport properties of lateral MoS2-WX2 heterostructures. <i>Computational Condensed Matter</i> , 2019 , 19, e00389	1.7	2
42	Flexural resonance mechanism of thermal transport across graphene-SiO2 interfaces. <i>Journal of Applied Physics</i> , 2018 , 123, 115107	2.5	18
41	Atomistic S-matrix method for numerical simulation of phonon reflection, transmission, and boundary scattering. <i>Physical Review B</i> , 2018 , 98,	3.3	9
40	Tutorial: Concepts and numerical techniques for modeling individual phonon transmission at interfaces. <i>Journal of Applied Physics</i> , 2018 , 124, 151101	2.5	11
39	Thermal Conductance of the 2D MoS/h-BN and graphene/h-BN Interfaces. <i>Scientific Reports</i> , 2017 , 7, 43886	4.9	64
38	Analyzing the Carrier Mobility in Transition-Metal Dichalcogenide MoS2 Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2017 , 27, 1604093	15.6	178
37	Thickness-dependent Kapitza resistance in multilayered graphene and other two-dimensional crystals. <i>Physical Review B</i> , 2017 , 95,	3.3	18
36	Recent Advances in the Study of Phosphorene and its Nanostructures. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2017 , 42, 1-82	10.1	113
35	Controlling the thermal conductance of graphene/hBN lateral interface with strain and structure engineering. <i>Physical Review B</i> , 2016 , 93,	3.3	39

34	Electron transport and device physics in monolayer transition-metal dichalcogenides 2016,		2
33	Theory of substrate-directed heat dissipation for single-layer graphene and other two-dimensional crystals. <i>Physical Review B</i> , 2016 , 94,	3.3	39
32	Realization of Room-Temperature Phonon-Limited Carrier Transport in Monolayer MoS2 by Dielectric and Carrier Screening. <i>Advanced Materials</i> , 2016 , 28, 547-52	24	161
31	Transistors: Realization of Room-Temperature Phonon-Limited Carrier Transport in Monolayer MoS2 by Dielectric and Carrier Screening (Adv. Mater. 3/2016). <i>Advanced Materials</i> , 2016 , 28, 546-546	24	4
30	Transport and localization in a topological phononic lattice with correlated disorder. <i>Physical Review B</i> , 2016 , 94,	3.3	18
29	Efficient approach for modeling phonon transmission probability in nanoscale interfacial thermal transport. <i>Physical Review B</i> , 2015 , 91,	3.3	64
28	High-Performance Monolayer WS2 Field-Effect Transistors on High-Dielectrics. <i>Advanced Materials</i> , 2015 , 27, 5230-4	24	177
27	Enhancement and reduction of one-dimensional heat conduction with correlated mass disorder. <i>Physical Review B</i> , 2014 , 90,	3.3	8
26	Strong Thermal Transport Anisotropy and Strain Modulation in Single-Layer Phosphorene. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25272-25277	3.8	219
25	Towards intrinsic charge transport in monolayer molybdenum disulfide by defect and interface engineering. <i>Nature Communications</i> , 2014 , 5, 5290	17.4	448
24	Theoretical analysis of high-field transport in graphene on a substrate. <i>Journal of Applied Physics</i> , 2014 , 116, 034507	2.5	33
23	Ballistic heat conduction and mass disorder in one dimension. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 335402	1.8	6
22	Anisotropic charged impurity-limited carrier mobility in monolayer phosphorene. <i>Journal of Applied Physics</i> , 2014 , 116, 214505	2.5	26
21	Response to Comment on Theoretical analysis of high-field transport in graphene on a substrate [] [J. Appl. Phys. 116, 236101 (2014)]. <i>Journal of Applied Physics</i> , 2014 , 116, 236102	2.5	
20	Theory of remote phonon scattering in top-gated single-layer graphene. <i>Physical Review B</i> , 2013 , 88,	3.3	19
19	Mobility enhancement and temperature dependence in top-gated single-layer MoS2. <i>Physical</i>	3.3	89
	Review B, 2013 , 88,		
18	Pseudopotential-based studies of electron transport in graphene and graphene nanoribbons. Journal of Physics Condensed Matter, 2013, 25, 473202	1.8	47

16	Ballistic to diffusive crossover of heat flow in graphene ribbons. <i>Nature Communications</i> , 2013 , 4, 1734	17.4	223
15	Effect of grain boundaries on thermal transport in graphene. <i>Applied Physics Letters</i> , 2013 , 102, 033104	3.4	119
14	Top oxide thickness dependence of remote phonon and charged impurity scattering in top-gated graphene. <i>Applied Physics Letters</i> , 2013 , 102, 183506	3.4	11
13	Signatures of dynamic screening in interfacial thermal transport of graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	18
12	Atomic-scale study of scattering and electronic properties of CVD graphene grain boundaries 2012,		1
11	Energy-efficiency and thermal management in nanoscale devices 2012 ,		2
10	Charged impurity scattering in top-gated graphene nanostructures. <i>Physical Review B</i> , 2012 , 86,	3.3	23
9	Theory of interfacial plasmon-phonon scattering in supported graphene. <i>Physical Review B</i> , 2012 , 86,	3.3	56
8	Effect of substrate modes on thermal transport in supported graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	198
7	Reduction of phonon lifetimes and thermal conductivity of a carbon nanotube on amorphous silica. <i>Physical Review B</i> , 2011 , 84,	3.3	62
6	Thermal dissipation and variability in electrical breakdown of carbon nanotube devices. <i>Physical Review B</i> , 2010 , 82,	3.3	81
5	Frequency and polarization dependence of thermal coupling between carbon nanotubes and SiO2. <i>Journal of Applied Physics</i> , 2010 , 108, 103502	2.5	34
4	Imaging, simulation, and electrostatic control of power dissipation in graphene devices. <i>Nano Letters</i> , 2010 , 10, 4787-93	11.5	141
3	Topography and refractometry of nanostructures using spatial light interference microscopy. <i>Optics Letters</i> , 2010 , 35, 208-10	3	37
2	Molecular dynamics simulation of thermal boundary conductance between carbon nanotubes and SiO2. <i>Physical Review B</i> , 2010 , 81,	3.3	234
1	Molecular Dynamics Simulation of Interfacial Thermal Resistance Between a (10,10) Carbon Nanotube and SiO2. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1172, 44		