Jie Chen

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/9383335/jie-chen-publications-by-year.pdf

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68 3,002 34 54 h-index g-index citations papers 3,860 7.1 5.9 72 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
68	Heat Conduction Theory Including Phonon Coherence <i>Physical Review Letters</i> , 2022 , 128, 015901	7.4	6
67	Optimization of interfacial thermal transport in Si/Ge heterostructure driven by machine learning. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 182, 122014	4.9	4
66	Strong four-phonon scattering in monolayer and hydrogenated bilayer BAs with horizontal mirror symmetry. <i>Applied Physics Letters</i> , 2022 , 120, 132201	3.4	6
65	Reducing Kapitza resistance between graphene/water interface via interfacial superlattice structure. <i>Nanotechnology</i> , 2021 , 33,	3.4	5
64	The Impact of Interlayer Rotation on Thermal Transport Across Graphene/Hexagonal Boron Nitride van der Waals Heterostructure. <i>Nano Letters</i> , 2021 , 21, 2634-2641	11.5	37
63	Total-transmission and total-reflection of individual phonons in phononic crystal nanostructures. <i>APL Materials</i> , 2021 , 9, 040703	5.7	8
62	Generalized decay law for particlelike and wavelike thermal phonons. <i>Physical Review B</i> , 2021 , 103,	3.3	7
61	Tunable phononic thermal transport in two-dimensional C6CaC6 via guest atom intercalation. <i>Journal of Applied Physics</i> , 2021 , 129, 225106	2.5	5
60	A perspective on the hydrodynamic phonon transport in two-dimensional materials. <i>Journal of Applied Physics</i> , 2021 , 130, 010902	2.5	6
59	Machine learning approach for the prediction and optimization of thermal transport properties. <i>Frontiers of Physics</i> , 2021 , 16, 1	3.7	14
58	Coherent thermal transport in nano-phononic crystals: An overview. APL Materials, 2021, 9, 081102	5.7	6
57	Copper diffusion rates and hopping pathways in superionic Cu2Se. <i>Acta Materialia</i> , 2021 , 215, 117026	8.4	3
56	Thermal self-synchronization of nano-objects. <i>Journal of Applied Physics</i> , 2021 , 130, 084301	2.5	1
55	Hydrodynamic phonon transport in bulk crystalline polymers. <i>Physical Review B</i> , 2020 , 102,	3.3	8
54	Remarkable thermal rectification in pristine and symmetric monolayer graphene enabled by asymmetric thermal contact. <i>Journal of Applied Physics</i> , 2020 , 127, 235101	2.5	19
53	Size-dependent phononic thermal transport in low-dimensional nanomaterials. <i>Physics Reports</i> , 2020 , 860, 1-26	27.7	110
52	Tunable phonon nanocapacitor built by carbon schwarzite based host-guest system. <i>Physical Review B</i> , 2020 , 101,	3.3	12

(2018-2020)

51	Accuracy of Machine Learning Potential for Predictions of Multiple-Target Physical Properties. <i>Chinese Physics Letters</i> , 2020 , 37, 126301	1.8	7
50	Lattice thermal conductivity of 🛘 2 and 🕒 borophene. <i>Chinese Physics B</i> , 2020 , 29, 126503	1.2	7
49	A phononic rectifier based on carbon schwarzite host@uest system. <i>Chinese Physics B</i> , 2020 , 29, 124402	1.2	5
48	Impact of Nanoscale Roughness on Heat Transport across the SolidBolid Interface. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901582	4.6	15
47	Phononic Thermal Transport in Yttrium Hydrides Allotropes. Frontiers in Materials, 2020, 7,	4	2
46	Ultra-strong stability of double-sided fluorinated monolayer graphene and its electrical property characterization. <i>Scientific Reports</i> , 2020 , 10, 17562	4.9	3
45	Thermal Transport in Conductive Polymer B ased Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1904704	15.6	60
44	Disorder limits the coherent phonon transport in two-dimensional phononic crystal structures. <i>Nanoscale</i> , 2019 , 11, 11839-11846	7.7	40
43	Conformal hexagonal-boron nitride dielectric interface for tungsten diselenide devices with improved mobility and thermal dissipation. <i>Nature Communications</i> , 2019 , 10, 1188	17.4	32
42	Emerging Theory, Materials, and Screening Methods: New Opportunities for Promoting Thermoelectric Performance. <i>Annalen Der Physik</i> , 2019 , 531, 1800437	2.6	39
41	Effect of boundary chain folding on thermal conductivity of lamellar amorphous polyethylene <i>RSC Advances</i> , 2019 , 9, 33549-33557	3.7	9
40	Ordered water layers by interfacial charge decoration leading to an ultra-low Kapitza resistance between graphene and water. <i>Carbon</i> , 2018 , 135, 263-269	10.4	48
39	Thermal Conductivity of Polymers and Their Nanocomposites. <i>Advanced Materials</i> , 2018 , 30, e1705544	24	266
38	Thermal conductivity of suspended few-layer MoS. <i>Nanoscale</i> , 2018 , 10, 2727-2734	7.7	46
37	Thermal conductivity of nanowires. <i>Chinese Physics B</i> , 2018 , 27, 035101	1.2	21
36	Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. <i>Small</i> , 2018 , 14, e1801346	11	70
35	Revisit to the Impacts of Rattlers on Thermal Conductivity of Clathrates. <i>Frontiers in Energy Research</i> , 2018 , 6,	3.8	12
34	Significant Reduction in Thermal Conductivity of Lithium Cobalt Oxide Cathode Upon Charging: Propagating and Non-propagating Thermal Energy Transport. <i>ES Energy & Environments</i> , 2018 ,	2.9	4

33	A Review of Simulation Methods in Micro/Nanoscale Heat Conduction. <i>ES Energy & Environments</i> , 2018 ,	2.9	50
32	Thermal rectification in Y-junction carbon nanotube bundle. <i>Carbon</i> , 2018 , 140, 673-679	10.4	24
31	Reducing lattice thermal conductivity in schwarzites via engineering the hybridized phonon modes. <i>Carbon</i> , 2018 , 139, 289-298	10.4	35
30	Off-center rattling triggers high-temperature thermal transport in thermoelectric clathrates: Nonperturbative approach. <i>Physical Review B</i> , 2018 , 97,	3.3	7
29	Randomness-Induced Phonon Localization in Graphene Heat Conduction. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3959-3968	6.4	76
28	Thermal transport in graphene with defect and doping: Phonon modes analysis. <i>Carbon</i> , 2017 , 116, 139	-114944	86
27	Hexagonal boron nitride: a promising substrate for graphene with high heat dissipation. <i>Nanotechnology</i> , 2017 , 28, 225704	3.4	54
26	Experimental study of thermal rectification in suspended monolayer graphene. <i>Nature Communications</i> , 2017 , 8, 15843	17.4	150
25	Hopping processes explain linear rise in temperature of thermal conductivity in thermoelectric clathrates with off-center guest atoms. <i>Physical Review B</i> , 2017 , 96,	3.3	11
24	Negative Gaussian curvature induces significant suppression of thermal conduction in carbon crystals. <i>Nanoscale</i> , 2017 , 9, 14208-14214	7.7	25
23	Engineering the thermal conductivity along an individual silicon nanowire by selective helium ion irradiation. <i>Nature Communications</i> , 2017 , 8, 15919	17.4	45
22	Ultrafast cooling by covalently bonded graphene-carbon nanotube hybrid immersed in water. <i>Nanotechnology</i> , 2016 , 27, 465705	3.4	21
21	Phonon thermal conduction in novel 2D materials. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 48300)1 1.8	54
20	Kapitza Resistance between Few-Layer Graphene and Water: Liquid Layering Effects. <i>Nano Letters</i> , 2015 , 15, 5744-9	11.5	119
19	Significant reduction of graphene thermal conductivity by phononic crystal structure. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 91, 428-432	4.9	66
18	Covalently Bonded Graphenetarbon Nanotube Hybrid for High-Performance Thermal Interfaces. <i>Advanced Functional Materials</i> , 2015 , 25, 7539-7545	15.6	84
17	Strain engineering of Kapitza resistance in few-layer graphene. <i>Nano Letters</i> , 2014 , 14, 819-25	11.5	116
16	Comparison of isotope effects on thermal conductivity of graphene nanoribbons and carbon nanotubes. <i>Applied Physics Letters</i> , 2013 , 103, 013111	3.4	60

LIST OF PUBLICATIONS

15	Substrate coupling suppresses size dependence of thermal conductivity in supported graphene. <i>Nanoscale</i> , 2013 , 5, 532-6	7.7	153
14	Suppressing thermal conductivity of suspended tri-layer graphene by gold deposition. <i>Advanced Materials</i> , 2013 , 25, 6884-8	24	43
13	Thermoelectric figure of merit in Ga-doped [0001] ZnO nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 978-981	2.3	35
12	Impacts of atomistic coating on thermal conductivity of germanium nanowires. <i>Nano Letters</i> , 2012 , 12, 2826-32	11.5	88
11	Thermal contact resistance across nanoscale silicon dioxide and silicon interface. <i>Journal of Applied Physics</i> , 2012 , 112, 064319	2.5	84
10	A universal gauge for thermal conductivity of silicon nanowires with different cross sectional geometries. <i>Journal of Chemical Physics</i> , 2011 , 135, 204705	3.9	46
9	Phonon coherent resonance and its effect on thermal transport in core-shell nanowires. <i>Journal of Chemical Physics</i> , 2011 , 135, 104508	3.9	86
8	Molecular Dynamics Simulations of Heat Conduction in Nanostructures: Effect of Heat Bath. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 074604	1.5	71
7	Remarkable reduction of thermal conductivity in silicon nanotubes. <i>Nano Letters</i> , 2010 , 10, 3978-83	11.5	140
6	How to improve the accuracy of equilibrium molecular dynamics for computation of thermal conductivity?. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 2392-2396	2.3	54
5	Imaging properties of a two-dimensional photonic crystal with rectangular air holes embedded in a silicon slab. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2010 , 8, 163-171	2.6	5
4	Edge states induce boundary temperature jump in molecular dynamics simulation of heat conduction. <i>Physical Review B</i> , 2009 , 80,	3.3	43
3	Tunable thermal conductivity of Si1⊠Gex nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 073117	3.4	103
2	Dynamics of elastic waves in two-dimensional phononic crystals with chaotic defect. <i>Applied Physics Letters</i> , 2007 , 91, 121902	3.4	5
1	Ultra-low lattice thermal conductivity and promising thermoelectric figure of merit in borophene via chlorination. <i>Nano Research</i> ,1	10	3