

Takuma Hori

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3935045/publications.pdf>

Version: 2024-02-01

28
papers

808
citations

623734

14
h-index

526287

27
g-index

28
all docs

28
docs citations

28
times ranked

947
citing authors

#	ARTICLE	IF	CITATIONS
1	P-TRANS: A Monte Carlo ray-tracing software to simulate phonon transport in arbitrary nanostructures. <i>Computer Physics Communications</i> , 2022, 276, 108361.	7.5	6
2	Synergistic phonon scattering in epitaxial silicon multilayers with germanium nanodot inclusions. <i>Physical Review B</i> , 2021, 104, .	3.2	2
3	Structural optimization of silicon thin film for thermoelectric materials. <i>Scientific Reports</i> , 2021, 11, 22648.	3.3	5
4	Thermal conductivity of single-walled carbon nanotubes under torsional deformation. <i>Journal of Applied Physics</i> , 2021, 130, 215106.	2.5	0
5	Relation between oxygen gas diffusivity and porous characteristics under capillary condensation of water in cathode catalyst layers of polymer electrolyte membrane fuel cells. <i>International Journal of Heat and Mass Transfer</i> , 2020, 150, 119277.	4.8	13
6	Pumping effect of heterogeneous meniscus formed around spherical particle. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 133-141.	9.4	6
7	In situ observation of dewetting-induced deformation of vertically aligned single-walled carbon nanotubes. <i>Diamond and Related Materials</i> , 2019, 95, 115-120.	3.9	1
8	Molecular Dynamics Study of Oxygen Scattering Behavior on Perfluorosulfonic Acid Ionomer Thin Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7125-7133.	3.1	12
9	Secondary instability induced by thermocapillary effect in half-zone liquid bridge of high Prandtl number fluid. <i>Mechanical Engineering Letters</i> , 2019, 5, 19-00014-19-00014.	0.6	9
10	Verification of the phonon relaxation time approximation by probing the relaxation process of a single excited mode. <i>Physical Review B</i> , 2019, 100, .	3.2	2
11	Tuning phonon transport spectrum for better thermoelectric materials. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 10-25.	6.1	36
12	Experimental study on behaviors of low-Stokes number particles in weakly chaotic structures induced by thermocapillary effect within a closed system with a free surface. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	13
13	Mutual influence of molecular diffusion in gas and surface phases. <i>Physical Review E</i> , 2018, 97, 013101.	2.1	11
14	Thermal conductivity reduction in silicon fishbone nanowires. <i>Scientific Reports</i> , 2018, 8, 4452.	3.3	59
15	Thermal rectification in restructured graphene with locally modulated temperature dependence of thermal conductivity. <i>Physical Review B</i> , 2017, 96, .	3.2	19
16	Effect of capillary condensation on gas transport properties in porous media. <i>Physical Review E</i> , 2017, 96, 043112.	2.1	10
17	Impeded thermal transport in Si multiscale hierarchical architectures with phononic crystal nanostructures. <i>Physical Review B</i> , 2015, 91, .	3.2	63
18	Anomalous reduction of thermal conductivity in coherent nanocrystal architecture for silicon thermoelectric material. <i>Nano Energy</i> , 2015, 12, 845-851.	16.0	150

#	ARTICLE	IF	CITATIONS
19	Tuning thermal conductance across sintered silicon interface by local nanostructures. Nano Energy, 2015, 13, 601-608.	16.0	24
20	Effective phonon mean free path in polycrystalline nanostructures. Applied Physics Letters, 2015, 106, .	3.3	79
21	Crystal structure dependent thermal conductivity in two-dimensional phononic crystal nanostructures. Applied Physics Letters, 2015, 107, .	3.3	43
22	Origin of anomalous anharmonic lattice dynamics of lead telluride. Applied Physics Express, 2014, 7, 041801.	2.4	22
23	Thermal conductivity of bulk nanostructured lead telluride. Applied Physics Letters, 2014, 104, 021915.	3.3	24
24	Probing and tuning inelastic phonon conductance across finite-thickness interface. Applied Physics Express, 2014, 7, 121801.	2.4	49
25	Influence of mass contrast in alloy phonon scattering. Japanese Journal of Applied Physics, 2014, 53, 021802.	1.5	11
26	Thermal resistance and phonon scattering at the interface between carbon nanotube and amorphous polyethylene. International Journal of Heat and Mass Transfer, 2013, 67, 1024-1029.	4.8	72
27	Phonon transport analysis of silicon germanium alloys using molecular dynamics simulations. Journal of Applied Physics, 2013, 113, .	2.5	28
28	Importance of local force fields on lattice thermal conductivity reduction in PbTe $1-x$ Se x alloys. Europhysics Letters, 2013, 102, 46002.	2.0	39