

# Konstantinos Termentzidis

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6473366/konstantinos-termentzidis-publications-by-citations.pdf>

**Version:** 2024-04-27

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.

66

papers

1,395

citations

22

h-index

36

g-index

73

ext. papers

1,566

ext. citations

2.7

avg, IF

4.79

L-index

#	Paper	IF	Citations
66	Kapitza conductance of silicon-amorphous polyethylene interfaces by molecular dynamics simulations. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	147
65	CO adsorption on metal surfaces: A hybrid functional study with plane-wave basis set. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	121
64	Non-equilibrium molecular dynamics study of thermal energy transport in Au-Bi <sub>2</sub> Te <sub>3</sub> junctions. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 1-11	4.9	82
63	Monte Carlo simulations of phonon transport in nanoporous silicon and germanium. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 024304	2.5	67
62	Thermal conductance at the interface between crystals using equilibrium and nonequilibrium molecular dynamics. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	64
61	Nonequilibrium molecular dynamics simulation of the in-plane thermal conductivity of superlattices with rough interfaces. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	62
60	Thermal boundary conductance across rough interfaces probed by molecular dynamics. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	57
59	Modulated SiC nanowires: Molecular dynamics study of their thermal properties. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	55
58	Molecular dynamics simulations for the prediction of thermal conductivity of bulk silicon and silicon nanowires: Influence of interatomic potentials and boundary conditions. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 034309	2.5	51
57	Large thermal conductivity decrease in point defective Bi <sub>2</sub> Te <sub>3</sub> bulk materials and superlattices. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 013506	2.5	48
56	Cross-plane thermal conductivity of superlattices with rough interfaces using equilibrium and non-equilibrium molecular dynamics. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 2014-2020	4.9	48
55	Thermal properties of amorphous/crystalline silicon superlattices. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 355801	1.8	36
54	Thermal conductivity and thermal boundary resistance of nanostructures. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 288	5	34
53	Crystalline-amorphous silicon nano-composites: Nano-pores and nano-inclusions impact on the thermal conductivity. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 175104	2.5	33
52	Thermal conductivity of phononic membranes with aligned and staggered lattices of holes at room and low temperatures. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	30
51	Amorphization and reduction of thermal conductivity in porous silicon by irradiation with swift heavy ions. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 014903	2.5	30
50	Thermal conductivity of GaAs/AlAs superlattices and the puzzle of interfaces. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 475001	1.8	29

49	Atomistic amorphous/crystalline interface modelling for superlattices and core/shell nanowires. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 055011	1.8	28
48	Modeling the reduction of thermal conductivity in core/shell and diameter-modulated silicon nanowires. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	27
47	Monte Carlo simulations of phonon transport in Si nanowires with constrictions. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 86, 648-655	4.9	27
46	Scaling behavior of the thermal conductivity of width-modulated nanowires and nanofilms for heat transfer control at the nanoscale. <i>Nanotechnology</i> , <b>2014</b> , 25, 465402	3.4	24
45	Characterization of the thermal conductivity of insulating thin films by scanning thermal microscopy. <i>Microelectronics Journal</i> , <b>2013</b> , 44, 1029-1034	1.8	23
44	Efficient tuning of potential parameters for liquid-solid interactions. <i>Molecular Simulation</i> , <b>2016</b> , 42, 910-915	2	20
43	Thermal conductivity of meso-porous germanium. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 031912	3.4	19
42	Impact of screw and edge dislocations on the thermal conductivity of individual nanowires and bulk GaN: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 5159-5172	3.6	16
41	Heat transport in phononic-like membranes: Modeling and comparison with modulated nano-wires. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 114, 550-558	4.9	15
40	Size dependence of the surface tension of a free surface of an isotropic fluid. <i>Physical Review E</i> , <b>2017</b> , 95, 062801	2.4	14
39	Transferability of neural network potentials for varying stoichiometry: Phonons and thermal conductivity of $Mn_xGe_y$ compounds. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 244901	2.5	12
38	Gibbs Adsorption Impact on a Nanodroplet Shape: Modification of Young-Laplace Equation. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 3176-3183	3.4	11
37	Thermal conductivity anisotropy in nanostructures and nanostructured materials. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 094003	3	11
36	Ab Initio Calculations and Measurements of Thermoelectric Properties of $V_2O_5$ Films. <i>Journal of Electronic Materials</i> , <b>2013</b> , 42, 1597-1603	1.9	11
35	Influence of amorphous layers on the thermal conductivity of phononic crystals. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	10
34	Thermal conductivity of $Bi_2Te_3$ tilted nanowires, a molecular dynamics study. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 233108	3.4	9
33	CO adsorption on a Au/Ni(111) surface alloy-a DFT study. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 246219	1.8	9
32	Thermal transport in two- and three-dimensional nanowire networks. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	9

31	A density-functional theory study of the adsorption of CO molecules on Au/Ni(111). <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 10825-10835	1.8	8
30	Enhanced thermal conductivity in percolating nanocomposites: a molecular dynamics investigation. <i>Nanoscale</i> , <b>2018</b> , 10, 21732-21741	7.7	8
29	Mechanism and crucial parameters on GaN nanocluster formation in a silica matrix. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 054301	2.5	7
28	The influence of structural characteristics on the electronic and thermal properties of GaN/AlN core/shell nanowires. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 074304	2.5	7
27	Thermal conductivity in disordered porous nanomembranes. <i>Nanotechnology</i> , <b>2019</b> , 30, 265401	3.4	6
26	Synthesis of bismuth telluride nanotubes and their simulated thermal properties. <i>Superlattices and Microstructures</i> , <b>2018</b> , 122, 587-595	2.8	6
25	Prediction of the thermal conductivity of SiC nanowires with kinetic theory of gases. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 2492-2498	1.6	6
24	Decorated Dislocations against Phonon Propagation for Thermal Management. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2682-2694	6.1	5
23	Molecular Dynamics Simulations and Thermal Transport at the Nano-Scale <b>2012</b> ,		5
22	Radial dependence of thermal transport in silicon nanowires. <i>JPhys Materials</i> , <b>2019</b> , 2, 015002	4.2	5
21	Thermal conductivity of deca-nanometric patterned Si membranes by multiscale simulations. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 830-835	4.9	4
20	Thermal conductivity and Kapitza resistance of diameter modulated SiC nanowires, a molecular dynamics study. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 395, 012107	0.3	4
19	Structure impact on the thermal and electronic properties of bismuth telluride by ab-initio and molecular dynamics calculations. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 395, 012114	0.3	4
18	Thermal rectification in asymmetric two-phase nanowires. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4
17	Effect of Amorphisation on the Thermal Properties of Nanostructured Membranes. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2017</b> , 72, 189-192	1.4	3
16	Thermal properties study of silicon nanostructures by photoacoustic techniques. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 225101	2.5	3
15	Thermal transport across nanometre gaps: Phonon transmission vs. air conduction. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 158, 119963	4.9	3
14	Thermal conductivity of regularly spaced amorphous/crystalline silicon superlattices. A molecular dynamics study. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1543, 71-79		3

13	Roughness and amorphization impact on thermal conductivity of nanofilms and nanowires: Making atomistic modeling more realistic. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 164305	2.5	2
12	Effect of the amorphization around spherical nano-pores on the thermal conductivity of nano-porous Silicon. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 785, 012009	0.3	2
11	On the dependence of the thermal conductivity of width-modulated nanowires on the number of modulations. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 785, 012011	0.3	2
10	Thermoelectric transport in V2O5 thin films. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 395, 012016	0.3	2
9	Thermal transport enhancement of hybrid nanocomposites; impact of confined water inside nanoporous silicon. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 033701	3.4	2
8	Vibrational density of states of free and embedded semiconducting GaN nanoparticles. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 094001	1.8	1
7	Kapitza thermal conductance at the interface between Lennard-Jones crystals using non-equilibrium molecular dynamics simulations. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 395, 012115	0.3	1
6	Microscopic Study of Solid/Fluid Interface with Molecular Dynamics. <i>Springer Proceedings in Physics</i> , <b>2019</b> , 73-89	0.2	1
5	Ballistic Heat Transport in Nanocomposite: The Role of the Shape and Interconnection of Nano-inclusions. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
4	Atomistic evidence of hydrodynamic heat transfer in nanowires. <i>International Journal of Heat and Mass Transfer</i> , <b>2022</b> , 194, 123003	4.9	1
3	Modeling Thermal Transport in Nano-Porous Semiconductors <b>2017</b> , 253-284		0
2	Structural Engineering of Vacancy Defected Bismuth Tellurides for Thermo-electric Applications. <i>EPJ Web of Conferences</i> , <b>2012</b> , 33, 02012	0.3	
1	Tuning thermal transport in nanowires: molecular dynamics and Monte Carlo simulations. <i>Frontiers of Nanoscience</i> , <b>2020</b> , 17, 61-76	0.7	