

Sanghamitra Neogi

List of Publications by Year in descending order

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15
papers

497
citations

932766

10
h-index

996533

15
g-index

15
all docs

15
docs citations

15
times ranked

852
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanophononics: state of the art and perspectives. <i>European Physical Journal B</i> , 2016, 89, 1.	0.6	149
2	Tuning Thermal Transport in Ultrathin Silicon Membranes by Surface Nanoscale Engineering. <i>ACS Nano</i> , 2015, 9, 3820-3828.	7.3	104
3	Hydrogen Bonds and Vibrations of Water on (110) Rutile. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13732-13740.	1.5	74
4	Native surface oxide turns alloyed silicon membranes into nanophononic metamaterials with ultralow thermal conductivity. <i>Physical Review B</i> , 2017, 95, .	1.1	53
5	Thermal transport in free-standing silicon membranes: influence of dimensional reduction and surface nanostructures. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	27
6	First-principles prediction of electronic transport in fabricated semiconductor heterostructures via physics-aware machine learning. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	16
7	Anisotropic In-Plane Phonon Transport in Silicon Membranes Guided by Nanoscale Surface Resonators. <i>Physical Review Applied</i> , 2020, 14, .	1.5	14
8	Autonomous Computing Materials. <i>ACS Nano</i> , 2021, 15, 3586-3592.	7.3	14
9	Optimal thickness of silicon membranes to achieve maximum thermoelectric efficiency: A first principles study. <i>Applied Physics Letters</i> , 2016, 109, 053902.	1.5	13
10	Heat and charge transport in bulk semiconductors with interstitial defects. <i>Physical Review B</i> , 2019, 99, .	1.1	10
11	Theoretical Prediction of Enhanced Thermopower in n-Doped Si/Ge Superlattices Using Effective Mass Approximation. <i>Journal of Electronic Materials</i> , 2020, 49, 4431-4442.	1.0	6
12	Generation of traveling solitons in one-dimensional monatomic quartic lattices. <i>Physical Review B</i> , 2008, 78, .	1.1	5
13	Optimization of Seebeck coefficients of strain-symmetrized semiconductor heterostructures. <i>Applied Physics Letters</i> , 2019, 115, 211602.	1.5	5
14	Role of substrate strain to tune energy bandsâ€“Seebeck relationship in semiconductor heterostructures. <i>Journal of Applied Physics</i> , 2021, 129, 025301.	1.1	4
15	The effect of electronâ€“phonon and electron-impurity scattering on the electronic transport properties of silicon/germanium superlattices. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7525-7542.	2.7	3