

# Sanghamitra Neogi

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8494461/sanghamitra-neogi-publications-by-year.pdf>

**Version:** 2024-04-19

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.

14  
papers

390  
citations

7  
h-index

15  
g-index

15  
ext. papers

458  
ext. citations

5.4  
avg, IF

3.54  
L-index

#	Paper	IF	Citations
14	First-principles prediction of electronic transport in fabricated semiconductor heterostructures via physics-aware machine learning. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	3
13	Role of substrate strain to tune energy bands and Seebeck relationship in semiconductor heterostructures. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 025301	2.5	3
12	Autonomous Computing Materials. <i>ACS Nano</i> , <b>2021</b> , 15, 3586-3592	16.7	4
11	Theoretical Prediction of Enhanced Thermopower in n-Doped Si/Ge Superlattices Using Effective Mass Approximation. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 4431-4442	1.9	4
10	Anisotropic In-Plane Phonon Transport in Silicon Membranes Guided by Nanoscale Surface Resonators. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	7
9	Heat and charge transport in bulk semiconductors with interstitial defects. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	8
8	Optimization of Seebeck coefficients of strain-symmetrized semiconductor heterostructures. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 211602	3.4	4
7	Native surface oxide turns alloyed silicon membranes into nanophononic metamaterials with ultralow thermal conductivity. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	38
6	Nanophononics: state of the art and perspectives. <i>European Physical Journal B</i> , <b>2016</b> , 89, 1	1.2	124
5	Optimal thickness of silicon membranes to achieve maximum thermoelectric efficiency: A first principles study. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 053902	3.4	11
4	Thermal transport in free-standing silicon membranes: influence of dimensional reduction and surface nanostructures. <i>European Physical Journal B</i> , <b>2015</b> , 88, 1	1.2	20
3	Tuning thermal transport in ultrathin silicon membranes by surface nanoscale engineering. <i>ACS Nano</i> , <b>2015</b> , 9, 3820-8	16.7	86
2	Hydrogen Bonds and Vibrations of Water on (110) Rutile. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13732-13740	3.2	13740
1	Generation of traveling solitons in one-dimensional monatomic quartic lattices. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	4