

# Hamidreza Simchi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3321762/publications.pdf>

Version: 2024-02-01

26  
papers

163  
citations

1307594

7  
h-index

1199594

12  
g-index

26  
all docs

26  
docs citations

26  
times ranked

164  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable spin and charge transport in silicene nanoribbons. <i>Physical Review B</i> , 2015, 92, .	3.2	67
2	Cleaning InSb wafers for manufacturing InSb detectors. <i>EPJ Applied Physics</i> , 2006, 33, 1-4.	0.7	14
3	Passivation of InSb surface for manufacturing infrared devices. <i>Infrared Physics and Technology</i> , 2008, 51, 263-269.	2.9	13
4	Double-stranded DNA field effect transistor and logical cells. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	9
5	Phase transition and spin-resolved transport in $\text{MoS}_2$ . <i>Physical Review B</i> , 2016, 94, .	2.5	9
6	The effect of a magnetic field on the spin-selective transport in double-stranded DNA. <i>Journal of Applied Physics</i> , 2014, 115, 204701.	2.5	7
7	Graphene-based three-body amplification of photon heat tunneling. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	7
8	Electron transport through nano-MOSFET in presence of electron-electron interaction. <i>AIP Advances</i> , 2013, 3, 032124.	1.3	6
9	Characterization of photodiodes, made from a p-type epitaxial layer grown on n-type InSb by LPE method. <i>Infrared Physics and Technology</i> , 2010, 53, 315-319.	2.9	4
10	Optimisation of cooled InSb detectors. <i>III-Vs Review</i> , 2004, 17, 27-31.	0.0	3
11	Electronic and spin transport properties of a benzene molecule connected to graphene leads. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1735-1743.	1.5	3
12	The electronic transport properties of porous zigzag graphene clusters. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 54, 220-225.	2.7	3
13	Spin transport and spin polarization properties in double-stranded DNA. <i>Journal of Applied Physics</i> , 2013, 114, 194706.	2.5	3
14	Ar <sup>+</sup> ion milling of InSb for manufacturing single electron devices. <i>Infrared Physics and Technology</i> , 2009, 52, 113-118.	2.9	2
15	Simultaneous quality improvement of the roughness and refractive index of SiC thin films. <i>Journal of Semiconductors</i> , 2012, 33, 063001.	3.7	2
16	Ab initio study on the effects of MoO <sub>3</sub> molecule on graphene clusters. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1675-1679.	2.7	2
17	Spin-dependent electron transport in zinc- and manganese-doped adenine molecules. <i>Journal of Applied Physics</i> , 2014, 115, 044701.	2.5	2
18	Perfect valley polarization in MoS <sub>2</sub> . <i>European Physical Journal B</i> , 2017, 90, 1.	1.5	2

#	ARTICLE	IF	CITATIONS
19	Phase transition and field effect topological quantum transistor made of monolayer MoS <sub>2</sub> . Journal of Physics Condensed Matter, 2018, 30, 235303.	1.8	2
20	Relativistic effects, infrared intensities, diffusion and lithiation in InSb. Computational Materials Science, 2007, 40, 557-561.	3.0	1
21	Proximity-induced superconductivity effect in a double-stranded DNA. Journal of Applied Physics, 2014, 115, 054702.	2.5	1
22	Spin polarization in lateral two-dimensional heterostructures. Journal of Physics Condensed Matter, 2021, 33, 145303.	1.8	1
23	DNA Sequencing Using Quantum Interference in Carbon Based Quantum Rings. Journal of Computational and Theoretical Nanoscience, 2015, 12, 3578-3582.	0.4	0
24	Trivial and non-trivial superconductivity in dsDNA. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2489-2492.	2.1	0
25	Interface dark excitons at sharp lateral two-dimensional heterostructures. Physica Scripta, 2021, 96, 045815.	2.5	0
26	Raman spectra and infrared intensities of graphene-like clusters in compared to epitaxial graphene on SiC. Indian Journal of Physics, 0, , 1.	1.8	0