

# Viet Hung Nguyen

## List of Publications by Citations

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66

papers

1,198

citations

21

h-index

32

g-index

79

ext. papers

1,470

ext. citations

4.4

avg, IF

4.54

L-index

#	Paper	IF	Citations
66	Enhanced thermoelectric properties in graphene nanoribbons by resonant tunneling of electrons. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	130
65	Thermoelectric effects in graphene nanostructures. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 133204	2.4	90
64	Electronic transport and spin-polarization effects of relativisticlike particles in mesoscopic graphene structures. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 063708	2.5	56
63	Few-electron edge-state quantum dots in a silicon nanowire field-effect transistor. <i>Nano Letters</i> , <b>2014</b> , 14, 2094-8	11.5	54
62	Resonant tunnelling diodes based on graphene/h-BN heterostructure. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 325104	3	51
61	Localization of lattice dynamics in low-angle twisted bilayer graphene. <i>Nature</i> , <b>2021</b> , 590, 405-409	50.4	46
60	Controllable spin-dependent transport in armchair graphene nanoribbon structures. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 053710	2.5	44
59	A Klein-tunneling transistor with ballistic graphene. <i>2D Materials</i> , <b>2014</b> , 1, 011006	5.9	42
58	Quantum calculations of the carrier mobility: Methodology, Matthiessen's rule, and comparison with semi-classical approaches. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 054512	2.5	38
57	Graphene nanomesh transistor with high on/off ratio and good saturation behavior. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 183509	3.4	34
56	Graphene nanomesh-based devices exhibiting a strong negative differential conductance effect. <i>Nanotechnology</i> , <b>2012</b> , 23, 065201	3.4	30
55	Klein tunneling and electron optics in Dirac-Weyl fermion systems with tilted energy dispersion. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	29
54	Disorder effects on electronic bandgap and transport in graphene-nanomesh-based structures. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 013702	2.5	29
53	Valley Filtering and Electronic Optics Using Polycrystalline Graphene. <i>Physical Review Letters</i> , <b>2016</b> , 117, 247702	7.4	29
52	Thermoelectric performance of disordered and nanostructured graphene ribbons using Green's function method. <i>Journal of Computational Electronics</i> , <b>2012</b> , 11, 67-77	1.8	28
51	Giant effect of negative differential conductance in graphene nanoribbon p-n hetero-junctions. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 042105	3.4	27
50	Bandgap nanoengineering of graphene tunnel diodes and tunnel transistors to control the negative differential resistance. <i>Journal of Computational Electronics</i> , <b>2013</b> , 12, 85-93	1.8	25

49	Enhanced thermoelectric figure of merit in vertical graphene junctions. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 133105	3.4	24
48	Strain Modulated Superlattices in Graphene. <i>Nano Letters</i> , <b>2020</b> , 20, 3113-3121	11.5	21
47	Large peak-to-valley ratio of negative-differential-conductance in graphene p-n junctions. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 093706	2.5	21
46	Resonant tunneling and negative transconductance in single barrier bilayer graphene structure. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 232115	3.4	21
45	Quantum Modeling of the Carrier Mobility in FDSOI Devices. <i>IEEE Transactions on Electron Devices</i> , <b>2014</b> , 61, 3096-3102	2.9	20
44	Pseudosaturation and Negative Differential Conductance in Graphene Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , <b>2013</b> , 60, 985-991	2.9	20
43	Performances of Strained Nanowire Devices: Ballistic Versus Scattering-Limited Currents. <i>IEEE Transactions on Electron Devices</i> , <b>2013</b> , 60, 1506-1513	2.9	19
42	Resonant tunneling structures based on epitaxial graphene on SiC. <i>Semiconductor Science and Technology</i> , <b>2011</b> , 26, 125012	1.8	19
41	Spin-polarized current and tunneling magnetoresistance in ferromagnetic gate bilayer graphene structures. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 073717	2.5	17
40	Enhanced Seebeck effect in graphene devices by strain and doping engineering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2015</b> , 73, 207-212	3	16
39	Imaging Dirac fermions flow through a circular Veselago lens. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	13
38	Aharonov-Bohm effect and giant magnetoresistance in graphene nanoribbon rings. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	13
37	Gate-controllable negative differential conductance in graphene tunneling transistors. <i>Semiconductor Science and Technology</i> , <b>2012</b> , 27, 105018	1.8	13
36	Shot noise in metallic double dot structures with a negative differential conductance. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 123107	3.4	13
35	Transport properties through graphene grain boundaries: strain effects versus lattice symmetry. <i>Nanoscale</i> , <b>2016</b> , 8, 11658-73	7.7	13
34	Strain-induced modulation of Dirac cones and van Hove singularities in a twisted graphene bilayer. <i>2D Materials</i> , <b>2015</b> , 2, 035005	5.9	12
33	Improved performance of graphene transistors by strain engineering. <i>Nanotechnology</i> , <b>2014</b> , 25, 165201	3.4	12
32	Coulomb blockade and negative differential conductance in metallic double-dot devices. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 3302-3306	2.5	10

31	Strain-induced conduction gap in vertical devices made of misoriented graphene layers. <i>Nanotechnology</i> , <b>2015</b> , 26, 115201	3.4	9
30	The conduction gap in double gate bilayer graphene structures. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 115304	1.8	9
29	Optical Hall effect in strained graphene. <i>2D Materials</i> , <b>2017</b> , 4, 025041	5.9	8
28	Conduction gap in graphene strain junctions: direction dependence. <i>Semiconductor Science and Technology</i> , <b>2014</b> , 29, 115024	1.8	8
27	Negative differential conductance in metallic double quantum dot structures. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, 1157-1166	1.8	8
26	Ab initio quantum transport in polycrystalline graphene. <i>Nanoscale</i> , <b>2018</b> , 10, 7759-7768	7.7	7
25	Graphene nanomesh-based devices exhibiting a strong negative differential conductance effect. <i>Nanotechnology</i> , <b>2012</b> , 23, 289502	3.4	7
24	Super-Poissonian noise in a Coulomb-blockade metallic quantum dot structure. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	7
23	Electronic localization in small-angle twisted bilayer graphene. <i>2D Materials</i> ,	5.9	7
22	Multi-scale strategy for high-k/metal-gate UTBB-FDSOI devices modeling with emphasis on back bias impact on mobility. <i>Journal of Computational Electronics</i> , <b>2013</b> , 12, 675-684	1.8	6
21	Comment on Orientation dependence of the optical spectra in graphene at high frequencies□ <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	5
20	Strong negative differential conductance in strained graphene devices. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 234306	2.5	5
19	Spin-dependent transport in armchair graphene nanoribbon structures with edge roughness effects. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 193, 012100	0.3	4
18	Remote surface roughness scattering in fully depleted silicon-on-insulator devices with high- $\gamma$ SiO <sub>2</sub> gate stacks. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 023508	3.4	3
17	Optimizing Dirac fermions quasi-confinement by potential smoothness engineering. <i>2D Materials</i> , <b>2020</b> , 7, 025037	5.9	3
16	AharonovBohm interferences in polycrystalline graphene. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 256-263	5.1	3
15	Stepped graphene-based AharonovBohm interferometers. <i>2D Materials</i> , <b>2019</b> , 6, 045045	5.9	2
14	Quantum transport of Dirac fermions in graphene field effect transistors <b>2010</b> ,		2

13	Spin-dependent transport in double ferromagnetic-gate graphene structures. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 187, 012037	0.3	2
12	High thermoelectric figure of merit in devices made of vertically stacked graphene layers <b>2015</b> ,		1
11	Strong negative differential resistance in graphene devices with local strain <b>2015</b> ,		1
10	Computational Atomistic Modeling in Carbon Flatland and Other 2D Nanomaterials. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1724	2.6	1
9	Transport gap in vertical devices made of incommensurately misoriented graphene layers. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 045306	3	1
8	On the non-linear effects in graphene devices. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 094007	3	1
7	Strain effects on transport properties of Si nanowire devices <b>2013</b> ,		1
6	The interplay between the Aharonov-Bohm interference and parity selective tunneling in graphene nanoribbon rings. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 205301	1.8	1
5	Transport behaviors in graphene field effect transistors on boron nitride substrate <b>2012</b> ,		1
4	Current and shot noise in double barrier resonant tunneling structures in a longitudinal magnetic field. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	1
3	Coulomb blockade, current and shot noise in parallel double metallic quantum dot structures. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 026220	1.8	1
2	Phonon-assisted tunneling and shot noise in double barrier structures in a longitudinal magnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 4947-4952	2.3	
1	Cotunnelling versus sequential tunnelling in Coulomb blockade metallic double quantum dot structures. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 2729-2740	1.8	