

Viet Hung Nguyen

List of Publications by Year in Descending Order

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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

1,198

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	Localization of lattice dynamics in low-angle twisted bilayer graphene. <i>Nature</i> , 2021 , 590, 405-409	50.4	46
65	Computational Atomistic Modeling in Carbon Flatland and Other 2D Nanomaterials. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1724	2.6	1
64	Strain Modulated Superlattices in Graphene. <i>Nano Letters</i> , 2020 , 20, 3113-3121	11.5	21
63	Optimizing Dirac fermions quasi-confinement by potential smoothness engineering. <i>2D Materials</i> , 2020 , 7, 025037	5.9	3
62	AharonovBohm interferences in polycrystalline graphene. <i>Nanoscale Advances</i> , 2020 , 2, 256-263	5.1	3
61	Stepped graphene-based AharonovBohm interferometers. <i>2D Materials</i> , 2019 , 6, 045045	5.9	2
60	Imaging Dirac fermions flow through a circular Veselago lens. <i>Physical Review B</i> , 2019 , 100,	3.3	13
59	Ab initio quantum transport in polycrystalline graphene. <i>Nanoscale</i> , 2018 , 10, 7759-7768	7.7	7
58	Klein tunneling and electron optics in Dirac-Weyl fermion systems with tilted energy dispersion. <i>Physical Review B</i> , 2018 , 97,	3.3	29
57	Optical Hall effect in strained graphene. <i>2D Materials</i> , 2017 , 4, 025041	5.9	8
56	Comment on Orientation dependence of the optical spectra in graphene at high frequencies□ <i>Physical Review B</i> , 2016 , 94,	3.3	5
55	Transport gap in vertical devices made of incommensurately misoriented graphene layers. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 045306	3	1
54	Valley Filtering and Electronic Optics Using Polycrystalline Graphene. <i>Physical Review Letters</i> , 2016 , 117, 247702	7.4	29
53	Transport properties through graphene grain boundaries: strain effects versus lattice symmetry. <i>Nanoscale</i> , 2016 , 8, 11658-73	7.7	13
52	Enhanced Seebeck effect in graphene devices by strain and doping engineering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 73, 207-212	3	16
51	Strain-induced conduction gap in vertical devices made of misoriented graphene layers. <i>Nanotechnology</i> , 2015 , 26, 115201	3.4	9
50	Strain-induced modulation of Dirac cones and van Hove singularities in a twisted graphene bilayer. <i>2D Materials</i> , 2015 , 2, 035005	5.9	12

49	Remote surface roughness scattering in fully depleted silicon-on-insulator devices with high- γ SiO ₂ gate stacks. <i>Applied Physics Letters</i> , 2015 , 106, 023508	3.4	3
48	High thermoelectric figure of merit in devices made of vertically stacked graphene layers 2015 ,		1
47	Strong negative differential resistance in graphene devices with local strain 2015 ,		1
46	Strong negative differential conductance in strained graphene devices. <i>Journal of Applied Physics</i> , 2015 , 118, 234306	2.5	5
45	Thermoelectric effects in graphene nanostructures. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 133204	0.8	90
44	On the non-linear effects in graphene devices. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 094007	3	1
43	Quantum Modeling of the Carrier Mobility in FDSOI Devices. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 3096-3102	2.9	20
42	Quantum calculations of the carrier mobility: Methodology, Matthiessen's rule, and comparison with semi-classical approaches. <i>Journal of Applied Physics</i> , 2014 , 115, 054512	2.5	38
41	Improved performance of graphene transistors by strain engineering. <i>Nanotechnology</i> , 2014 , 25, 165201	3.4	12
40	Few-electron edge-state quantum dots in a silicon nanowire field-effect transistor. <i>Nano Letters</i> , 2014 , 14, 2094-8	11.5	54
39	A Klein-tunneling transistor with ballistic graphene. <i>2D Materials</i> , 2014 , 1, 011006	5.9	42
38	Enhanced thermoelectric figure of merit in vertical graphene junctions. <i>Applied Physics Letters</i> , 2014 , 105, 133105	3.4	24
37	Conduction gap in graphene strain junctions: direction dependence. <i>Semiconductor Science and Technology</i> , 2014 , 29, 115024	1.8	8
36	The interplay between the Aharonov-Bohm interference and parity selective tunneling in graphene nanoribbon rings. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 205301	1.8	1
35	Aharonov-Bohm effect and giant magnetoresistance in graphene nanoribbon rings. <i>Physical Review B</i> , 2013 , 88,	3.3	13
34	Bandgap nanoengineering of graphene tunnel diodes and tunnel transistors to control the negative differential resistance. <i>Journal of Computational Electronics</i> , 2013 , 12, 85-93	1.8	25
33	Graphene nanomesh transistor with high on/off ratio and good saturation behavior. <i>Applied Physics Letters</i> , 2013 , 103, 183509	3.4	34
32	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> , 2013 , 12, 675-684	1.8	6

31	Strain effects on transport properties of Si nanowire devices 2013 ,		1
30	Disorder effects on electronic bandgap and transport in graphene-nanomesh-based structures. <i>Journal of Applied Physics</i> , 2013 , 113, 013702	2.5	29
29	Performances of Strained Nanowire Devices: Ballistic Versus Scattering-Limited Currents. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 1506-1513	2.9	19
28	Pseudosaturation and Negative Differential Conductance in Graphene Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 985-991	2.9	20
27	Gate-controllable negative differential conductance in graphene tunneling transistors. <i>Semiconductor Science and Technology</i> , 2012 , 27, 105018	1.8	13
26	Resonant tunnelling diodes based on graphene/h-BN heterostructure. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 325104	3	51
25	Transport behaviors in graphene field effect transistors on boron nitride substrate 2012 ,		1
24	Graphene nanomesh-based devices exhibiting a strong negative differential conductance effect. <i>Nanotechnology</i> , 2012 , 23, 065201	3.4	30
23	Thermoelectric performance of disordered and nanostructured graphene ribbons using Green's function method. <i>Journal of Computational Electronics</i> , 2012 , 11, 67-77	1.8	28
22	Graphene nanomesh-based devices exhibiting a strong negative differential conductance effect. <i>Nanotechnology</i> , 2012 , 23, 289502	3.4	7
21	Enhanced thermoelectric properties in graphene nanoribbons by resonant tunneling of electrons. <i>Physical Review B</i> , 2011 , 83,	3.3	130
20	Giant effect of negative differential conductance in graphene nanoribbon p-n hetero-junctions. <i>Applied Physics Letters</i> , 2011 , 99, 042105	3.4	27
19	Large peak-to-valley ratio of negative-differential-conductance in graphene p-n junctions. <i>Journal of Applied Physics</i> , 2011 , 109, 093706	2.5	21
18	Resonant tunneling structures based on epitaxial graphene on SiC. <i>Semiconductor Science and Technology</i> , 2011 , 26, 125012	1.8	19
17	Spin-polarized current and tunneling magnetoresistance in ferromagnetic gate bilayer graphene structures. <i>Journal of Applied Physics</i> , 2011 , 109, 073717	2.5	17
16	Quantum transport of Dirac fermions in graphene field effect transistors 2010 ,		2
15	The conduction gap in double gate bilayer graphene structures. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 115304	1.8	9
14	Spin-dependent transport in double ferromagnetic-gate graphene structures. <i>Journal of Physics: Conference Series</i> , 2009 , 187, 012037	0.3	2

13	Spin-dependent transport in armchair graphene nanoribbon structures with edge roughness effects. <i>Journal of Physics: Conference Series</i> , 2009 , 193, 012100	0.3	4
12	Resonant tunneling and negative transconductance in single barrier bilayer graphene structure. <i>Applied Physics Letters</i> , 2009 , 95, 232115	3.4	21
11	Controllable spin-dependent transport in armchair graphene nanoribbon structures. <i>Journal of Applied Physics</i> , 2009 , 106, 053710	2.5	44
10	Electronic transport and spin-polarization effects of relativisticlike particles in mesoscopic graphene structures. <i>Journal of Applied Physics</i> , 2008 , 104, 063708	2.5	56
9	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> , 2008 , 372, 4947-4952	2.3	
8	Current and shot noise in double barrier resonant tunneling structures in a longitudinal magnetic field. <i>Physical Review B</i> , 2007 , 76,	3.3	1
7	Coulomb blockade, current and shot noise in parallel double metallic quantum dot structures. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 026220	1.8	1
6	Cotunnelling versus sequential tunnelling in Coulomb blockade metallic double quantum dot structures. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 2729-2740	1.8	
5	Super-Poissonian noise in a Coulomb-blockade metallic quantum dot structure. <i>Physical Review B</i> , 2006 , 73,	3.3	7
4	Negative differential conductance in metallic double quantum dot structures. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 1157-1166	1.8	8
3	Shot noise in metallic double dot structures with a negative differential conductance. <i>Applied Physics Letters</i> , 2005 , 87, 123107	3.4	13
2	Coulomb blockade and negative differential conductance in metallic double-dot devices. <i>Journal of Applied Physics</i> , 2004 , 96, 3302-3306	2.5	10
1	Electronic localization in small-angle twisted bilayer graphene. <i>2D Materials</i> ,	5.9	7