

Farhan Rana

List of Publications by Citations

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30
papers

2,111
citations

14
h-index

39
g-index

39
ext. papers

2,368
ext. citations

5.7
avg, IF

5.07
L-index

#	Paper	IF	Citations
30	Measurement of ultrafast carrier dynamics in epitaxial graphene. <i>Applied Physics Letters</i> , 2008 , 92, 042116	3.4	585
29	Graphene Terahertz Plasmon Oscillators. <i>IEEE Nanotechnology Magazine</i> , 2008 , 7, 91-99	2.6	390
28	Measurement of the optical absorption spectra of epitaxial graphene from terahertz to visible. <i>Applied Physics Letters</i> , 2008 , 93, 131905	3.4	383
27	Ultrafast relaxation dynamics of hot optical phonons in graphene. <i>Applied Physics Letters</i> , 2010 , 96, 081917	3.7	202
26	Surface Recombination Limited Lifetimes of Photoexcited Carriers in Few-Layer Transition Metal Dichalcogenide MoS ₂ <i>Nano Letters</i> , 2015 , 15, 8204-10	11.5	106
25	Ultrafast response of monolayer molybdenum disulfide photodetectors. <i>Nature Communications</i> , 2015 , 6, 8831	17.4	105
24	Tunable excitons in bilayer graphene. <i>Science</i> , 2017 , 358, 907-910	33.3	89
23	Schottky barrier inhomogeneities at the interface of few layer epitaxial graphene and silicon carbide. <i>Applied Physics Letters</i> , 2012 , 100, 183112	3.4	70
22	Subwavelength Nanopatch Cavities for Semiconductor Plasmon Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2008 , 44, 435-447	2	41
21	Emission of terahertz radiation from SiC. <i>Applied Physics Letters</i> , 2009 , 95, 051912	3.4	23
20	Broken Symmetry Effects due to Polarization on Resonant Tunneling Transport in Double-Barrier Nitride Heterostructures. <i>Physical Review Applied</i> , 2019 , 11,	4.3	17
19	Passively Mode-Locked High-Power (210 mW) Semiconductor Lasers at 1.55- μm Wavelength. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 190-192	2.2	17
18	Fundamental and Subharmonic Hybrid Mode-Locking of a High-Power (220 mW) Monolithic Semiconductor Laser. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1308-1310	2.2	16
17	Measurement of ultrafast dynamics of photoexcited carriers in EGa_2O_3 by two-color optical pump-probe spectroscopy. <i>Applied Physics Letters</i> , 2018 , 113, 252102	3.4	14
16	Fighting Broken Symmetry with Doping: Toward Polar Resonant Tunneling Diodes with Symmetric Characteristics. <i>Physical Review Applied</i> , 2020 , 13,	4.3	8
15	Intra- and inter-conduction band optical absorption processes in EGa_2O_3 . <i>Applied Physics Letters</i> , 2020 , 117, 072103	3.4	8
14	Tapered Cavities for High-Modulation-Efficiency and Low-Distortion Semiconductor Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 1083-1087	2	6

13	SiGeC/Si Electrooptic Modulators. <i>Journal of Lightwave Technology</i> , 2007 , 25, 866-874	4	5
12	Many-body theory of radiative lifetimes of exciton-trion superposition states in doped two-dimensional materials. <i>Physical Review B</i> , 2021 , 103,	3.3	5
11	Ultrafast dynamics of gallium vacancy charge states in Ga ₂ O ₃ . <i>Physical Review Research</i> , 2021 , 3,	3.9	4
10	Unconventional valley-dependent optical selection rules and landau level mixing in bilayer graphene. <i>Nature Communications</i> , 2020 , 11, 2941	17.4	3
9	Measurement of Ultrafast Carrier Dynamics in Epitaxial Graphene. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1081, 1		3
8	Relaxation Oscillations and Pulse Stability in Harmonically Mode-Locked Semiconductor Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 1109-1119	2	2
7	Ultrafast All-optical Switches Based on Intersubband Transitions in GaN/AlN Multiple Quantum Wells for Tb/s Operation. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 831, 591		2
6	HIGH PERFORMANCE SIGEC/SI NEAR-IR ELECTROOPTIC MODULATORS AND PHOTODETECTORS. <i>International Journal of High Speed Electronics and Systems</i> , 2007 , 17, 153-162	0.5	1
5	Graphene Terahertz Plasmon Laser: A Laser in a Circuit. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , 2007 ,		1
4	Active and Hybrid Modelocking of a High Power (100 mW) Monolithic Semiconductor Laser at 1550 nm. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , 2007 ,		1
3	Integrated Terahertz Biophotonics: Terahertz Spectroscopy of Proteins in Microfluidic Devices. <i>LEOS Summer Topical Meeting</i> , 2007 ,		1
2	Exciton-Trion Polaritons in Doped Two-Dimensional Semiconductors. <i>Physical Review Letters</i> , 2021 , 126, 127402	7.4	1
1	Structure and dispersion of exciton-trion-polaritons in two-dimensional materials: Experiments and theory. <i>Physical Review Research</i> , 2021 , 3,	3.9	1