

# Farhan Rana

## 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.

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	Exciton-Trion Polaritons in Doped Two-Dimensional Semiconductors. <i>Physical Review Letters</i> , <b>2021</b> , 126, 127402	7.4	1
29	Ultrafast dynamics of gallium vacancy charge states in $\text{Ga}_2\text{O}_3$ . <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	4
28	Structure and dispersion of exciton-trion-polaritons in two-dimensional materials: Experiments and theory. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	1
27	Many-body theory of radiative lifetimes of exciton-trion superposition states in doped two-dimensional materials. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	5
26	Unconventional valley-dependent optical selection rules and landau level mixing in bilayer graphene. <i>Nature Communications</i> , <b>2020</b> , 11, 2941	17.4	3
25	Fighting Broken Symmetry with Doping: Toward Polar Resonant Tunneling Diodes with Symmetric Characteristics. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	8
24	Intra- and inter-conduction band optical absorption processes in $\text{EGa}_2\text{O}_3$ . <i>Applied Physics Letters</i> , <b>2020</b> , 117, 072103	3.4	8
23	Broken Symmetry Effects due to Polarization on Resonant Tunneling Transport in Double-Barrier Nitride Heterostructures. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	17
22	Measurement of ultrafast dynamics of photoexcited carriers in $\text{EGa}_2\text{O}_3$ by two-color optical pump-probe spectroscopy. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 252102	3.4	14
21	Tunable excitons in bilayer graphene. <i>Science</i> , <b>2017</b> , 358, 907-910	33.3	89
20	Ultrafast response of monolayer molybdenum disulfide photodetectors. <i>Nature Communications</i> , <b>2015</b> , 6, 8831	17.4	105
19	Surface Recombination Limited Lifetimes of Photoexcited Carriers in Few-Layer Transition Metal Dichalcogenide $\text{MoS}_2$ <i>Nano Letters</i> , <b>2015</b> , 15, 8204-10	11.5	106
18	Schottky barrier inhomogeneities at the interface of few layer epitaxial graphene and silicon carbide. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 183112	3.4	70
17	Ultrafast relaxation dynamics of hot optical phonons in graphene. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 081912	3.4	202
16	Emission of terahertz radiation from SiC. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 051912	3.4	23
15	Measurement of ultrafast carrier dynamics in epitaxial graphene. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 042112	3.4	585
14	Passively Mode-Locked High-Power (210 mW) Semiconductor Lasers at 1.55- $\mu\text{m}$ Wavelength. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 190-192	2.2	17

13	Fundamental and Subharmonic Hybrid Mode-Locking of a High-Power (220 mW) Monolithic Semiconductor Laser. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 1308-1310	2.2	16
12	Measurement of the optical absorption spectra of epitaxial graphene from terahertz to visible. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 131905	3-4	383
11	Subwavelength Nanopatch Cavities for Semiconductor Plasmon Lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2008</b> , 44, 435-447	2	41
10	Measurement of Ultrafast Carrier Dynamics in Epitaxial Graphene. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1081, 1		3
9	Graphene Terahertz Plasmon Oscillators. <i>IEEE Nanotechnology Magazine</i> , <b>2008</b> , 7, 91-99	2.6	390
8	HIGH PERFORMANCE SiGeC/Si NEAR-IR ELECTROOPTIC MODULATORS AND PHOTODETECTORS. <i>International Journal of High Speed Electronics and Systems</i> , <b>2007</b> , 17, 153-162	0.5	1
7	Graphene Terahertz Plasmon Laser: A Laser in a Circuit. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , <b>2007</b> ,		1
6	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> , <b>2007</b> ,		1
5	SiGeC/Si Electrooptic Modulators. <i>Journal of Lightwave Technology</i> , <b>2007</b> , 25, 866-874	4	5
4	Tapered Cavities for High-Modulation-Efficiency and Low-Distortion Semiconductor Lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2007</b> , 43, 1083-1087	2	6
3	Relaxation Oscillations and Pulse Stability in Harmonically Mode-Locked Semiconductor Lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2007</b> , 43, 1109-1119	2	2
2	Integrated Terahertz Biophotonics: Terahertz Spectroscopy of Proteins in Microfluidic Devices. <i>LEOS Summer Topical Meeting</i> , <b>2007</b> ,		1
1	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> , <b>2004</b> , 831, 591		2