Ren-Jye Shiue

List of Publications by Year
in descending order

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21 papers	2,516 citations	567281 15 h-index	888059 17 g-index
22 all docs	22 docs citations	22 times ranked	4134 citing authors

#	Article	IF	Citations
1	Chip-integrated ultrafast graphene photodetector with high responsivity. Nature Photonics, 2013, 7, 883-887.	31.4	971
2	Controlling the spontaneous emission rate of monolayer MoS₂ in a photonic crystal nanocavity. Applied Physics Letters, 2013, 103, 181119.	3.3	194
3	Chalcogenide glass-on-graphene photonics. Nature Photonics, 2017, 11, 798-805.	31.4	190
4	High-Responsivity Grapheneâ€“Boron Nitride Photodetector and Autocorrelator in a Silicon Photonic Integrated Circuit. Nano Letters, 2015, 15, 7288-7293.	9.1	185
5	High-Contrast Electrooptic Modulation of a Photonic Crystal Nanocavity by Electrical Gating of Graphene. Nano Letters, 2013, 13, 691-696.	9.1	177
6	High-Speed Electro-Optic Modulator Integrated with Graphene-Boron Nitride Heterostructure and Photonic Crystal Nanocavity. Nano Letters, 2015, 15, 2001-2005.	9.1	142
7	High-Quality Graphene pâ€"n Junctions via Resist-free Fabrication and Solution-Based Noncovalent Functionalization. ACS Nano, 2011, 5, 2051-2059.	14.6	116
8	Ultrafast Graphene Light Emitters. Nano Letters, 2018, 18, 934-940.	9.1	109
9	Thermal radiation control from hot graphene electrons coupled to a photonic crystal nanocavity. Nature Communications, 2019, 10, 109.	12.8	79
10	High-resolution optical spectroscopy using multimode interference in a compact tapered fibre. Nature Communications, 2015, 6, 7762.	12.8	76
11	Enhanced photodetection in graphene-integrated photonic crystal cavity. Applied Physics Letters, 2013, 103, .	3.3	68
12	Fast thermal relaxation in cavity-coupled graphene bolometers with a Johnson noise read-out. Nature Nanotechnology, 2018, 13, 797-801.	31.5	66
13	Transport/Magnetotransport of High-Performance Graphene Transistors on Organic Molecule-Functionalized Substrates. Nano Letters, 2012, 12, 964-969.	9.1	62
14	Active 2D materials for on-chip nanophotonics and quantum optics. Nanophotonics, 2017, 6, 1329-1342.	6.0	38
15	Controlled Lightâ€“Matter Interaction in Graphene Electrooptic Devices Using Nanophotonic Cavities and Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 95-105.	2.9	20
16	Waveguide-integrated photonic crystal spectrometer with camera readout. Applied Physics Letters, 2014, 105, 051103.	3.3	16
17	Heterogeneous Integration of 2D Materials and Devices on a Si Platform. , 2019, , 43-84.		5
18	On-chip graphene optoelectronic devices for high-speed modulation and photodetection. Proceedings of SPIE, 2014, , .	0.8	2

#	Article	IF	Citations
19	On-chip graphene optoelectronic devices for optical interconnects. , 2014, , .		0
20	Ultrafast Graphene Photodetector for On-chip Broadband Auto-correlator. , 2015, , .		0
21	Cavity-Enhanced Narrowband Radiation of an Electrically Driven Graphene Light Emitter. , 2016, , .		0