Qiushi Guo

List of Publications by Year
in descending order

35 papers	3,381 citations	257101 24 h-index	344852 36 g-index
37 all docs	37 docs citations	37 times ranked	5469 citing authors

#	Article	IF	Citations
1	Black Phosphorus Mid-Infrared Photodetectors with High Gain. Nano Letters, 2016, 16, 4648-4655.	4.5	616
2	Black Arsenicâ€“Phosphorus: Layered Anisotropic Infrared Semiconductors with Highly Tunable Compositions and Properties. Advanced Materials, 2015, 27, 4423-4429.	11.1	378
3	Anisotropic Black Phosphorus Synaptic Device for Neuromorphic Applications. Advanced Materials, 2016, 28, 4991-4997.	11.1	281
4	Efficient electrical control of thin-film black phosphorus bandgap. Nature Communications, 2017, 8, 14474.	5.8	249
5	Optoelectronic devices based on two-dimensional transition metal dichalcogenides. Nano Research, 2016, 9, 1543-1560.	5.8	186
6	Interlayer interactions in anisotropic atomically thin rhenium diselenide. Nano Research, 2015, 8, 3651-3661.	5.8	159
7	Air-Stable Room-Temperature Mid-Infrared Photodetectors Based on hBN/Black Arsenic Phosphorus/hBN Heterostructures. Nano Letters, 2018, 18, 3172-3179.	4.5	145
8	Efficient electrical detection of mid-infrared graphene plasmons at room temperature. Nature Materials, 2018, 17, 986-992.	13.3	119
9	Non-dispersive infrared multi-gas sensing via nanoantenna integrated narrowband detectors. Nature Communications, 2020, 11, 5245.	5.8	109
10	Two-dimensional materials for nanophotonics application. Nanophotonics, 2015, 4, 128-142.	2.9	97
11	Infrared Nanophotonics Based on Graphene Plasmonics. ACS Photonics, 2017, 4, 2989-2999.	3.2	92
12	Ag nanoparticle/ZnO nanorods nanocomposites derived by a seed-mediated method and their photocatalytic properties. Journal of Alloys and Compounds, 2012, 524, 13-21.	2.8	90
13	Bright Mid-Infrared Photoluminescence from Thin-Film Black Phosphorus. Nano Letters, 2019, 19, 1488-1493.	4.5	90
14	Synthesis of Crystalline Black Phosphorus Thin Film on Sapphire. Advanced Materials, 2018, 30, 1703748.	11.1	86
15	Plasmonics in Atomically Thin Crystalline Silver Films. ACS Nano, 2019, 13, 7771-7779.	7.3	86
16	Widely tunable mid-infrared light emission in thin-film black phosphorus. Science Advances, 2020, 6, eaay6134.	4.7	80
17	Tunable Plasmonâ€“Phonon Polaritons in Layered Grapheneâ€“Hexagonal Boron Nitride Heterostructures. ACS Photonics, 2015, 2, 907-912.	3.2	70
18	Coupling-Enhanced Broadband Mid-infrared Light Absorption in Graphene Plasmonic Nanostructures. ACS Nano, 2016, 10, 11172-11178.	7.3	62

#	Article	IF	Citations
19	Protective molecular passivation of black phosphorus. Npj 2D Materials and Applications, 2017, 1, .	3.9	52
20	Room Temperature Graphene Mid-Infrared Bolometer with a Broad Operational Wavelength Range. ACS Photonics, 2020, 7, 1206-1215.	3.2	41
21	Tailoring optical responses of infrared plasmonic metamaterial absorbers by optical phonons. Optics Express, 2018, 26, 16769.	1.7	36
22	Silicon-on-Glass Graphene-Functionalized Leaky Cavity Mode Nanophotonic Biosensor. ACS Photonics, 2014, 1, 221-227.	3.2	33
23	Noise spectroscopy as an equilibrium analysis tool for highly sensitive electrical biosensing. Applied Physics Letters, 2012, 101, 093704.	1.5	29
24	Biosensor platform based on stress-improved piezoelectric membrane. Sensors and Actuators A: Physical, 2012, 179, 32-38.	2.0	26
25	Electrothermal Control of Graphene Plasmonâ€“Phonon Polaritons. Advanced Materials, 2017, 29, 1700566.	11.1	24
26	Photothermal Engineering of Graphene Plasmons. Physical Review Letters, 2018, 121, 057404.	2.9	22
27	Valley-Selective Linear Dichroism in Layered Tin Sulfide. ACS Photonics, 2018, 5, 3814-3819.	3.2	22
28	Black Phosphorus High-Frequency Transistors with Local Contact Bias. ACS Nano, 2020, 14, 2118-2125.	7.3	21
29	Symmetry-Controlled Electronâ€“Phonon Interactions in van der Waals Heterostructures. ACS Nano, 2019, 13, 552-559.	7.3	20
30	Enhanced graphene absorption and linewidth sharpening enabled by Fano-like geometric resonance at near-infrared wavelengths. Optics Express, 2015, 23, 21097.	1.7	19
31	Ultrafast Silicon Nanomembrane Microbolometer for Long-Wavelength Infrared Light Detection. Nano Letters, 2021, 21, 8385-8392.	4.5	16
32	Piezoelectric tuning of narrowband perfect plasmonic absorbers via an optomechanic cavity. Optics Letters, 2016, 41, 2803.	1.7	8
33	Meander Line Nanoantenna Absorber for Subwavelength Terahertz Detection. IEEE Photonics Journal, 2018, 10, 1-9.	1.0	5
34	Nanoantenna Integrated Thermomechanical Infrared Detector. Plasmonics, 2017, 12, 1921-1927.	1.8	4
35	Plasmonics in Atomically Thin Crystalline Silver. , 2019, , .		0