Shaofan Yuan

List of Publications by Year
in descending order

15	1,302	687363 13	940533 16
papers	citations	h-index	g-index

16	16	16	1915
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Widely tunable black phosphorus mid-infrared photodetector. Nature Communications, 2017, 8, 1672.	12.8	283
2	Air-Stable Room-Temperature Mid-Infrared Photodetectors Based on hBN/Black Arsenic Phosphorus/hBN Heterostructures. Nano Letters, 2018, 18, 3172-3179.	9.1	145
3	A wavelength-scale black phosphorus spectrometer. Nature Photonics, 2021, 15, 601-607.	31.4	130
4	Efficient electrical detection of mid-infrared graphene plasmons at room temperature. Nature Materials, 2018, 17, 986-992.	27.5	119
5	Infrared Nanophotonics Based on Graphene Plasmonics. ACS Photonics, 2017, 4, 2989-2999.	6.6	92
6	Bright Mid-Infrared Photoluminescence from Thin-Film Black Phosphorus. Nano Letters, 2019, 19, 1488-1493.	9.1	90
7	Synthesis of Crystalline Black Phosphorus Thin Film on Sapphire. Advanced Materials, 2018, 30, 1703748.	21.0	86
8	Widely tunable mid-infrared light emission in thin-film black phosphorus. Science Advances, 2020, 6, eaay6134.	10.3	80
9	Strong mid-infrared photoresponse in small-twist-angle bilayer graphene. Nature Photonics, 2020, 14, 549-553.	31.4	76
10	Intelligent infrared sensing enabled by tunable moirÃ© quantum geometry. Nature, 2022, 604, 266-272.	27.8	69
11	Large-Velocity Saturation in Thin-Film Black Phosphorus Transistors. ACS Nano, 2018, 12, 5003-5010.	14.6	44
12	Room Temperature Graphene Mid-Infrared Bolometer with a Broad Operational Wavelength Range. ACS Photonics, 2020, 7, 1206-1215.	6.6	41
13	MoirÃ© Band Topology in Twisted Bilayer Graphene. Nano Letters, 2020, 20, 6076-6083.	9.1	30
14	Graphene Schottky Varactor Diodes for High-Performance Photodetection. ACS Photonics, 2019, 6, 1910-1915.	6.6	11
15	Enhancing infrared emission of mercury telluride (HgTe) quantum dots by plasmonic structures. Light: Science and Applications, 2020, 9, 37.	16.6	2