

# Xiaolong Chen

## List of Publications by Year in descending order

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41  
papers

2,131  
citations

331259

21  
h-index

315357

38  
g-index

41  
all docs

41  
docs citations

41  
times ranked

3900  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-quality sandwiched black phosphorus heterostructure and its quantum oscillations. Nature Communications, 2015, 6, 7315.	5.8	423
2	Widely tunable black phosphorus mid-infrared photodetector. Nature Communications, 2017, 8, 1672.	5.8	283
3	Probing the electron states and metal-insulator transition mechanisms in molybdenum disulphide vertical heterostructures. Nature Communications, 2015, 6, 6088.	5.8	181
4	Air-Stable Room-Temperature Mid-Infrared Photodetectors Based on hBN/Black Arsenic Phosphorus/hBN Heterostructures. Nano Letters, 2018, 18, 3172-3179.	4.5	145
5	Black phosphorus-based van der Waals heterostructures for mid-infrared light-emission applications. Light: Science and Applications, 2020, 9, 114.	7.7	100
6	Bright Mid-Infrared Photoluminescence from Thin-Film Black Phosphorus. Nano Letters, 2019, 19, 1488-1493.	4.5	90
7	Stable Graphene-Two-Dimensional Multiphase Perovskite Heterostructure Phototransistors with High Gain. Nano Letters, 2017, 17, 7330-7338.	4.5	88
8	Synthesis of Crystalline Black Phosphorus Thin Film on Sapphire. Advanced Materials, 2018, 30, 1703748.	11.1	86
9	Widely tunable mid-infrared light emission in thin-film black phosphorus. Science Advances, 2020, 6, eaay6134.	4.7	80
10	Recent Advances in Two-Dimensional Magnets: Physics and Devices towards Spintronic Applications. Research, 2020, 2020, 1768918.	2.8	58
11	van der Waals Epitaxial Growth of Atomically Thin Bi <sub>2</sub> Se <sub>3</sub> and Thickness-Dependent Topological Phase Transition. Nano Letters, 2015, 15, 2645-2651.	4.5	54
12	Large-Velocity Saturation in Thin-Film Black Phosphorus Transistors. ACS Nano, 2018, 12, 5003-5010.	7.3	44
13	Progress on Black Phosphorus Photonics. Advanced Optical Materials, 2018, 6, 1800365.	3.6	44
14	Room Temperature Graphene Mid-Infrared Bolometer with a Broad Operational Wavelength Range. ACS Photonics, 2020, 7, 1206-1215.	3.2	41
15	Two-Dimensional Gallium Oxide Monolayer for Gas-Sensing Application. Journal of Physical Chemistry Letters, 2021, 12, 5813-5820.	2.1	41
16	Synthesis Techniques, Optoelectronic Properties, and Broadband Photodetection of Thin-Film Black Phosphorus. Advanced Optical Materials, 2020, 8, 2000045.	3.6	39
17	Electrically tunable physical properties of two-dimensional materials. Nano Today, 2019, 27, 99-119.	6.2	35
18	Moiré Band Topology in Twisted Bilayer Graphene. Nano Letters, 2020, 20, 6076-6083.	4.5	30

#	ARTICLE	IF	CITATIONS
19	Detection of interlayer interaction in few-layer graphene. <i>Physical Review B</i> , 2015, 92, .	1.1	22
20	Valley-Selective Linear Dichroism in Layered Tin Sulfide. <i>ACS Photonics</i> , 2018, 5, 3814-3819.	3.2	22
21	Black Phosphorus High-Frequency Transistors with Local Contact Bias. <i>ACS Nano</i> , 2020, 14, 2118-2125.	7.3	21
22	Two-dimensional ferroelectric MoS <sub>2</sub> /Ga <sub>2</sub> O <sub>3</sub> heterogeneous bilayers with highly tunable photocatalytic and electrical properties. <i>Nanoscale</i> , 2022, 14, 5551-5560.	2.8	21
23	Density of States and Its Local Fluctuations Determined by Capacitance of Strongly Disordered Graphene. <i>Scientific Reports</i> , 2013, 3, .	1.6	20
24	Symmetry-Controlled Electron-Phonon Interactions in van der Waals Heterostructures. <i>ACS Nano</i> , 2019, 13, 552-559.	7.3	20
25	Negative Quantum Capacitance Induced by Midgap States in Single-layer Graphene. <i>Scientific Reports</i> , 2013, 3, 2041.	1.6	18
26	Detection of resonant impurities in graphene by quantum capacitance measurement. <i>Physical Review B</i> , 2014, 89, .	1.1	18
27	Electron-electron interactions in monolayer graphene quantum capacitors. <i>Nano Research</i> , 2013, 6, 619-626.	5.8	17
28	Probing the electronic states and impurity effects in black phosphorus vertical heterostructures. <i>2D Materials</i> , 2016, 3, 015012.	2.0	16
29	Probing interlayer interaction via chiral phonons in layered honeycomb materials. <i>Physical Review B</i> , 2021, 103, .	1.1	14
30	Stimulating and Manipulating Robust Circularly Polarized Photoluminescence in Achiral Hybrid Perovskites. <i>Nano Letters</i> , 2022, 22, 3961-3968.	4.5	13
31	Negative compressibility in graphene-terminated black phosphorus heterostructures. <i>Physical Review B</i> , 2016, 93, .	1.1	10
32	Enabling novel device functions with black phosphorus/MoS <sub>2</sub> van der Waals heterostructures. <i>Science Bulletin</i> , 2017, 62, 1557-1558.	4.3	9
33	Type-Switchable Inverter and Amplifier Based on High-Performance Ambipolar Black-Phosphorus Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900133.	2.6	9
34	Side-gate modulation effects on high-quality BN-Graphene-BN nanoribbon capacitors. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	7
35	Mid-infrared light-emitting properties and devices based on thin-film black phosphorus. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4418-4424.	2.7	4
36	Strong Neel Ordering and Luminescence Correlation in a Two-Dimensional Antiferromagnet. <i>Laser and Photonics Reviews</i> , 0, , 2100431.	4.4	3

#	ARTICLE	IF	CITATIONS
37	Fluctuation-induced tunneling conduction in iodine-doped bilayer graphene. <i>Journal of Applied Physics</i> , 2018, 123, 244302.	1.1	2
38	Black phosphorous optoelectronic devices. , 2017, , .		1
39	A Tunable Resonant Circuit Based on Graphene Quantum Capacitor. <i>Advanced Electronic Materials</i> , 2021, 7, 2001009.	2.6	1
40	Probing interlayer shear thermal deformation in atomically-thin van der Waals layered materials. <i>Nature Communications</i> , 2022, 13, .	5.8	1
41	Electronic Transport in Few-Layer Black Phosphorus. , 0, , .		0