

# Li Huang

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

1,196  
citations

566801

15  
h-index

752256

20  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1852  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-beam-irradiated rhenium disulfide memristors with low variability for neuromorphic computing. Npj 2D Materials and Applications, 2021, 5, .	3.9	69
2	Charge Carrier Mobility and Series Resistance Extraction in 2D Field-Effect Transistors: Toward the Universal Technique. Advanced Functional Materials, 2021, 31, 2105003.	7.8	2
3	Mid-infrared modulators integrating silicon and black phosphorus photonics. Materials Today Advances, 2021, 12, 100170.	2.5	17
4	Recent advances in black phosphorus and transition metal dichalcogenide-based electronic and optoelectronics devices. , 2020, , 251-312.		3
5	Gradual Resistive Switching in Electron Beam Irradiated ReS <sub>2</sub> Transistor and its Application as Electronic Synapse. , 2020, , .		0
6	Black phosphorus photonics toward on-chip applications. Applied Physics Reviews, 2020, 7, 031302.	5.5	21
7	High-Responsivity Mid-Infrared Black Phosphorus Slow Light Waveguide Photodetector. Advanced Optical Materials, 2020, 8, 2000337.	3.6	75
8	A Fully Printed Flexible MoS <sub>2</sub> Memristive Artificial Synapse with Femtojoule Switching Energy. Advanced Electronic Materials, 2019, 5, 1900740.	2.6	123
9	A flexible InGaAs nanomembrane PhotoFET with tunable responsivities in near- and short-wave IR region for lightweight imaging applications. APL Materials, 2019, 7, .	2.2	13
10	First Demonstration of Waveguide-Integrated Black Phosphorus Electro-Optic Modulator for Mid-Infrared Beyond 4 $\mu$ m. , 2019, , .		2
11	Mid-Infrared Aluminum Nitride on Insulator (AlNOI) Platform. , 2019, , .		0
12	Black Phosphorus Based Photodetectors. ACS Symposium Series, 2019, , 135-153.	0.5	3
13	Waveguide-Integrated Black Phosphorus Photodetector for Mid-Infrared Applications. ACS Nano, 2019, 13, 913-921.	7.3	164
14	Recent Advances in Black Phosphorus-Based Electronic Devices. Advanced Electronic Materials, 2019, 5, 1800666.	2.6	31
15	Direct n- to p-Type Channel Conversion in Monolayer/Few-Layer WS <sub>2</sub> Field-Effect Transistors by Atomic Nitrogen Treatment. ACS Nano, 2018, 12, 2506-2513.	7.3	107
16	2D Photovoltaic Devices: Progress and Prospects. Small Methods, 2018, 2, 1700294.	4.6	135
17	A Black Phosphorus Carbide Infrared Phototransistor. Advanced Materials, 2018, 30, 1705039.	11.1	95
18	Pronounced Photovoltaic Effect in Electrically Tunable Lateral Black-Phosphorus Heterojunction Diode. Advanced Electronic Materials, 2018, 4, 1700442.	2.6	27

#	ARTICLE	IF	CITATIONS
19	A Near- & Short-Wave IR Tunable InGaAs Nanomembrane PhotoFET on Flexible Substrate for Lightweight and Wide-Angle Imaging Applications. , 2018, , .		1
20	Black Phosphorus Carbide as a Tunable Anisotropic Plasmonic Metasurface. ACS Photonics, 2018, 5, 3116-3123.	3.2	58
21	Tunable black phosphorus heterojunction transistors for multifunctional optoelectronics. Nanoscale, 2018, 10, 14359-14367.	2.8	24
22	Fewâ€Layer Black Phosphorus Carbide Fieldâ€Effect Transistor via Carbon Doping. Advanced Materials, 2017, 29, 1700503.	11.1	133
23	Infrared Black Phosphorus Phototransistor with Tunable Responsivity and Low Noise Equivalent Power. ACS Applied Materials & Interfaces, 2017, 9, 36130-36136.	4.0	73
24	Black phosphorus carbide infrared phototransistor with wide spectrum sensing for IoT applications. , 2017, , .		0
25	Channel modeling and target design for two-dimensional optical storage systems. IEEE Transactions on Magnetics, 2005, 41, 2414-2424.	1.2	10
26	Reduced complexity Viterbi detection for two-dimensional optical recording. IEEE Transactions on Consumer Electronics, 2005, 51, 123-129.	3.0	9
27	Reduced complexity two-dimensional Viterbi-like detectors. , 2005, , .		1