Arnob Islam

List of Publications by Year
in descending order

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23 papers	302 citations	840585 11 h-index	996849 15 g-index
23 all docs	23 docs citations	23 times ranked	541 citing authors

#	Article	IF	Citations
1	Atomic Layer GaSe/MoS₂ van der Waals Heterostructure Photodiodes with Low Noise and Large Dynamic Range. ACS Photonics, 2018, 5, 2693-2700.	3.2	51
2	Anisotropic Thermal Conductivity of Suspended Black Phosphorus Probed by Opto-Thermomechanical Resonance Spectromicroscopy. Nano Letters, 2018, 18, 7683-7691.	4.5	37
3	Controlling Polarity of MoTe₂ Transistors for Monolithic Complementary Logic via Schottky Contact Engineering. ACS Nano, 2020, 14, 1457-1467.	7.3	31
4	Ultrawide Frequency Tuning of Atomic Layer van der Waals Heterostructure Electromechanical Resonators. Nano Letters, 2021, 21, 5508-5515.	4.5	26
5	All-dry transferred single- and few-layer MoS2 field effect transistor with enhanced performance by thermal annealing. Journal of Applied Physics, 2018, 123, .	1.1	23
6	Discerning Black Phosphorus Crystal Orientation and Anisotropy by Polarized Reflectance Measurement. ACS Applied Materials & Interfaces, 2018, 10, 25629-25637.	4.0	20
7	Environmental, thermal, and electrical susceptibility of black phosphorus field effect transistors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 052202.	0.6	19
8	Effects of asymmetric Schottky contacts on photoresponse in tungsten diselenide (WSe2) phototransistor. Journal of Applied Physics, 2017, 122, .	1.1	16
9	Electromechanical coupling and design considerations in single-layer MoS₂ suspended-channel transistors and resonators. Nanoscale, 2015, 7, 19921-19929.	2.8	15
10	Atomic Layer MoTe₂ Field-Effect Transistors and Monolithic Logic Circuits Configured by Scanning Laser Annealing. ACS Nano, 2021, 15, 19733-19742.	7.3	13
11	Polarization sensitive black phosphorus nanomechanical resonators. Optical Materials Express, 2019, 9, 526.	1.6	12
12	A review on fabrication process of organic light emitting diodes. , 2013, , .		10
13	Series active power filter implementation using P-Q theory. , 2012, , .		5
14	All-electrical transduction of black phosphorus tunable 2D nanoelectromechanical resonators. , 2018, , .		5
15	Designing an all epitaxial 1,550Ânm intra-cavity VCSEL using GaInAsN/AlGaInAs in the active region and AlGaAsSb/AlAsSb in top and bottom DBRs. Optical and Quantum Electronics, 2013, 45, 1199-1212.	1.5	4
16	Few-Layer Mote₂ Suspended Channel Transistors and Nanoelectromechanical Resonators. , 2019, , .		4
17	Integrated Duo Wavelength VCSEL Using an Electrically Pumped GaInAs/AlGaAs 980â€‰nm Cavity at the Bottom and an Optically Pumped GaInAs/AlGaInAs 1550â€‰nm Cavity on the Top. International Scholarly Research Notices, 2014, 2014, 1-10.	0.9	2
18	Investigation of Electrostatic Gating in Two-Dimensional Transitional Metal Dichalcogenide (TMDC) Field Effect Transistors (FETs). , 2018, , .		2

#	Article	IF	Citations
19	Electronic Applications of Black Phosphorus Thin Films. ACS Symposium Series, 2019, , 179-194.	0.5	2
20	Black Phosphorus NEMS Resonant Infrared (IR) Detector. , 2020, , .		2
21	Designing a High Speed 1310nm AlGaInAs/AlGaInAs VCSEL using MgO/Si Top DBR and GaInAsP/InP Bottom DBR. American Journal of Optics and Photonics, 2014, 2, 37.	1.2	2
22	Observation of strong temperature hysteresis in molybdenum disulfide (MoS<inf>2</inf>) vibrating nanomechanical resonators. , 2015, , .		1
23	Gallium selenide (GaSe)-molybdenum disulfide (MOS<inf>2</inf>) van der Waals heterojunction diodes. , 2017, , .		0