

Joshua O Island

List of Publications by Year in descending order

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39
papers

5,558
citations

257101

24
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301761

39
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40
all docs

40
docs citations

40
times ranked

8800
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation and characterization of few-layer black phosphorus. 2D Materials, 2014, 1, 025001.	2.0	1,411
2	Environmental instability of few-layer black phosphorus. 2D Materials, 2015, 2, 011002.	2.0	818
3	Photocurrent generation with two-dimensional van der Waals semiconductors. Chemical Society Reviews, 2015, 44, 3691-3718.	18.7	802
4	Gate Controlled Photocurrent Generation Mechanisms in High-Gain In ₂ Se ₃ Phototransistors. Nano Letters, 2015, 15, 7853-7858.	4.5	347
5	Enhanced superconductivity in atomically thin TaS ₂ . Nature Communications, 2016, 7, 11043.	5.8	285
6	TiS ₃ Transistors with Tailored Morphology and Electrical Properties. Advanced Materials, 2015, 27, 2595-2601.	11.1	193
7	Ultrahigh Photoresponse of Few-Layer TiS ₃ Nanoribbon Transistors. Advanced Optical Materials, 2014, 2, 641-645.	3.6	189
8	Precise and reversible band gap tuning in single-layer MoSe ₂ by uniaxial strain. Nanoscale, 2016, 8, 2589-2593.	2.8	159
9	Electronics and optoelectronics of quasi-1D layered transition metal trichalcogenides. 2D Materials, 2017, 4, 022003.	2.0	146
10	Spin-orbit-driven band inversion in bilayer graphene by the van der Waals proximity effect. Nature, 2019, 571, 85-89.	13.7	126
11	Titanium trisulfide (TiS ₃): a 2D semiconductor with quasi-1D optical and electronic properties. Scientific Reports, 2016, 6, 22214.	1.6	107
12	Franckeite as a naturally occurring van der Waals heterostructure. Nature Communications, 2017, 8, 14409.	5.8	103
13	Centimeter-Scale Synthesis of Ultrathin Layered MoO ₃ by van der Waals Epitaxy. Chemistry of Materials, 2016, 28, 4042-4051.	3.2	100
14	Temperature-Dependent Raman Spectroscopy of Titanium Trisulfide (TiS ₃) Nanoribbons and Nanosheets. ACS Applied Materials & Interfaces, 2015, 7, 24185-24190.	4.0	89
15	Gate-tunable diode and photovoltaic effect in an organic 2D layered material junction. Nanoscale, 2015, 7, 15442-15449.	2.8	84
16	Linear Magnetoelectric Phase in Ultrathin $MnPS_3$ Probed by Optical Second Harmonic Generation. Physical Review Letters, 2020, 124, 027601.	2.9	80
17	Electronic thermal conductivity measurements in intrinsic graphene. Physical Review B, 2013, 87, .	1.1	53
18	High Current Density Electrical Breakdown of TiS ₃ Nanoribbon-Based Field-Effect Transistors. Advanced Functional Materials, 2017, 27, 1605647.	7.8	52

#	ARTICLE	IF	CITATIONS
19	Sequential Electron Transport and Vibrational Excitations in an Organic Molecule Coupled to Few-Layer Graphene Electrodes. ACS Nano, 2016, 10, 2521-2527.	7.3	47
20	Characterization of highly crystalline lead iodide nanosheets prepared by room-temperature solution processing. Nanotechnology, 2017, 28, 455703.	1.3	45
21	On the origin of critical temperature enhancement in atomically thin superconductors. 2D Materials, 2017, 4, 025072.	2.0	44
22	Proximity-Induced Shiba States in a Molecular Junction. Physical Review Letters, 2017, 118, 117001.	2.9	44
23	Few-Hundred GHz Carbon Nanotube Nanoelectromechanical Systems (NEMS). Nano Letters, 2012, 12, 4564-4569.	4.5	38
24	Spatial conductivity mapping of unprotected and capped black phosphorus using microwave microscopy. 2D Materials, 2016, 3, 021002.	2.0	31
25	Fabrication of hybrid molecular devices using multi-layer graphene break junctions. Journal of Physics Condensed Matter, 2014, 26, 474205.	0.7	20
26	Universal image segmentation for optical identification of 2D materials. Scientific Reports, 2021, 11, 5808.	1.6	19
27	Thickness dependent interlayer transport in vertical MoS ₂ Josephson junctions. 2D Materials, 2016, 3, 031002.	2.0	18
28	Giant modulation of the electronic band gap of carbon nanotubes by dielectric screening. Scientific Reports, 2017, 7, 8828.	1.6	16
29	Raman Fingerprint of Pressure-Induced Phase Transitions in TiS ₃ Nanoribbons: Implications for Thermal Measurements under Extreme Stress Conditions. ACS Applied Nano Materials, 2020, 3, 8794-8802.	2.4	15
30	On-chip terahertz modulation and emission with integrated graphene junctions. Applied Physics Letters, 2020, 116, .	1.5	13
31	Ultra-short suspended single-wall carbon nanotube transistors. Applied Physics Letters, 2011, 99, 243106.	1.5	12
32	Pick-up and drop transfer of diamond nanosheets. Nanotechnology, 2015, 26, 125706.	1.3	10
33	Superconducting molybdenum-rhenium electrodes for single-molecule transport studies. Applied Physics Letters, 2015, 106, .	1.5	9
34	Investigating Laser-Induced Phase Engineering in MoS ₂ Transistors. IEEE Transactions on Electron Devices, 2018, 65, 4053-4058.	1.6	8
35	Tailoring 10 nm Scale Suspended Graphene Junctions and Quantum Dots. Nano Letters, 2015, 15, 114-119.	4.5	7
36	Heated Assembly and Transfer of Van der Waals Heterostructures with Common Nail Polish. Nanomanufacturing, 2021, 1, 49-56.	1.8	6

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37	Black Phosphorus-Based Nanodevices. <i>Semiconductors and Semimetals</i> , 2016, 95, 279-303.	0.4	5
38	Interaction-Driven Giant Orbital Magnetic Moments in Carbon Nanotubes. <i>Physical Review Letters</i> , 2018, 121, 127704.	2.9	5
39	Note: Long-range scanning tunneling microscope for the study of nanostructures on insulating substrates. <i>Review of Scientific Instruments</i> , 2014, 85, 026105.	0.6	2