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List of Publications by Year
in descending order

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39 papers	5,558 citations	257101 24 h-index	301761 39 g-index
40 all docs	40 docs citations	40 times ranked	8800 citing authors

#	Article	IF	Citations
1	Universal image segmentation for optical identification of 2D materials. Scientific Reports, 2021, 11, 5808.	1.6	19
2	Heated Assembly and Transfer of Van der Waals Heterostructures with Common Nail Polish. Nanomanufacturing, 2021, 1, 49-56.	1.8	6
3	Raman Fingerprint of Pressure-Induced Phase Transitions in TiS₃ Nanoribbons: Implications for Thermal Measurements under Extreme Stress Conditions. ACS Applied Nano Materials, 2020, 3, 8794-8802.	2.4	15
4	Linear Magnetoelectric Phase in Ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mi>MnPS</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> Probed by Optical Second Harmonic Generation. Physical Review Letters, 2020, 124, 027601.	2.9	80
5	On-chip terahertz modulation and emission with integrated graphene junctions. Applied Physics Letters, 2020, 116, .	1.5	13
6	Spinâ€“orbit-driven band inversion in bilayer graphene by the van der Waals proximity effect. Nature, 2019, 571, 85-89.	13.7	126
7	Interaction-Driven Giant Orbital Magnetic Moments in Carbon Nanotubes. Physical Review Letters, 2018, 121, 127704.	2.9	5
8	Investigating Laser-Induced Phase Engineering in MoS₂ Transistors. IEEE Transactions on Electron Devices, 2018, 65, 4053-4058.	1.6	8
9	Franckeite as a naturally occurring van der Waals heterostructure. Nature Communications, 2017, 8, 14409.	5.8	103
10	High Current Density Electrical Breakdown of TiS₃ Nanoribbonâ€Based Fieldâ€Effect Transistors. Advanced Functional Materials, 2017, 27, 1605647.	7.8	52
11	Electronics and optoelectronics of quasi-1D layered transition metal trichalcogenides. 2D Materials, 2017, 4, 022003.	2.0	146
12	On the origin of critical temperature enhancement in atomically thin superconductors. 2D Materials, 2017, 4, 025072.	2.0	44
13	Proximity-Induced Shiba States in a Molecular Junction. Physical Review Letters, 2017, 118, 117001.	2.9	44
14	Characterization of highly crystalline lead iodide nanosheets prepared by room-temperature solution processing. Nanotechnology, 2017, 28, 455703.	1.3	45
15	Giant modulation of the electronic band gap of carbon nanotubes by dielectric screening. Scientific Reports, 2017, 7, 8828.	1.6	16
16	Centimeter-Scale Synthesis of Ultrathin Layered MoO₃ by van der Waals Epitaxy. Chemistry of Materials, 2016, 28, 4042-4051.	3.2	100
17	Black Phosphorus-Based Nanodevices. Semiconductors and Semimetals, 2016, 95, 279-303.	0.4	5
18	Titanium trisulfide (TiS3): a 2D semiconductor with quasi-1D optical and electronic properties. Scientific Reports, 2016, 6, 22214.	1.6	107

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19	Enhanced superconductivity in atomically thin TaS2. Nature Communications, 2016, 7, 11043.	5.8	285
20	Spatial conductivity mapping of unprotected and capped black phosphorus using microwave microscopy. 2D Materials, 2016, 3, 021002.	2.0	31
21	Precise and reversible band gap tuning in single-layer MoSe₂ by uniaxial strain. Nanoscale, 2016, 8, 2589-2593.	2.8	159
22	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
23	Thickness dependent interlayer transport in vertical MoS ₂ Josephson junctions. 2D Materials, 2016, 3, 031002.	2.0	18
24	Environmental instability of few-layer black phosphorus. 2D Materials, 2015, 2, 011002.	2.0	818
25	Photocurrent generation with two-dimensional van der Waals semiconductors. Chemical Society Reviews, 2015, 44, 3691-3718.	18.7	802
26	TiS₃ Transistors with Tailored Morphology and Electrical Properties. Advanced Materials, 2015, 27, 2595-2601.	11.1	193
27	Pick-up and drop transfer of diamond nanosheets. Nanotechnology, 2015, 26, 125706.	1.3	10
28	Temperature-Dependent Raman Spectroscopy of Titanium Trisulfide (TiS₃) Nanoribbons and Nanosheets. ACS Applied Materials & Interfaces, 2015, 7, 24185-24190.	4.0	89
29	Superconducting molybdenum-rhenium electrodes for single-molecule transport studies. Applied Physics Letters, 2015, 106, .	1.5	9
30	Gate-tunable diode and photovoltaic effect in an organicâ€“2D layered material pâ€“n junction. Nanoscale, 2015, 7, 15442-15449.	2.8	84
31	Gate Controlled Photocurrent Generation Mechanisms in High-Gain In₂Se₃ Phototransistors. Nano Letters, 2015, 15, 7853-7858.	4.5	347
32	Tailoring 10 nm Scale Suspended Graphene Junctions and Quantum Dots. Nano Letters, 2015, 15, 114-119.	4.5	7
33	Note: Long-range scanning tunneling microscope for the study of nanostructures on insulating substrates. Review of Scientific Instruments, 2014, 85, 026105.	0.6	2
34	Ultrahigh Photoresponse of Fewâ€Layer TiS₃ Nanoribbon Transistors. Advanced Optical Materials, 2014, 2, 641-645.	3.6	189
35	Fabrication of hybrid molecular devices using multi-layer graphene break junctions. Journal of Physics Condensed Matter, 2014, 26, 474205.	0.7	20
36	Isolation and characterization of few-layer black phosphorus. 2D Materials, 2014, 1, 025001.	2.0	1,411

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37	Electronic thermal conductivity measurements in intrinsic graphene. Physical Review B, 2013, 87, .	1.1	53
38	Few-Hundred GHz Carbon Nanotube Nanoelectromechanical Systems (NEMS). Nano Letters, 2012, 12, 4564-4569.	4.5	38
39	Ultra-short suspended single-wall carbon nanotube transistors. Applied Physics Letters, 2011, 99, 243106.	1.5	12