

Carl H Naylor

List of Publications by Citations

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34
papers

2,254
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34
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2,614
ext. citations

9.7
avg, IF

4.69
L-index

#	Paper	IF	Citations
34	Strong Exciton-Plasmon Coupling in MoS ₂ Coupled with Plasmonic Lattice. <i>Nano Letters</i> , 2016 , 16, 1262-9	11.5	240
33	Band Alignment and Minigaps in Monolayer MoS ₂ -Graphene van der Waals Heterostructures. <i>Nano Letters</i> , 2016 , 16, 4054-61	11.5	230
32	Seeded growth of highly crystalline molybdenum disulphide monolayers at controlled locations. <i>Nature Communications</i> , 2015 , 6, 6128	17.4	229
31	Raman Shifts in Electron-Irradiated Monolayer MoS ₂ . <i>ACS Nano</i> , 2016 , 10, 4134-42	16.7	226
30	Fano Resonance and Spectrally Modified Photoluminescence Enhancement in Monolayer MoS ₂ Integrated with Plasmonic Nanoantenna Array. <i>Nano Letters</i> , 2015 , 15, 3646-53	11.5	191
29	Monolayer Single-Crystal 1T'MoTe ₂ Grown by Chemical Vapor Deposition Exhibits Weak Antilocalization Effect. <i>Nano Letters</i> , 2016 , 16, 4297-304	11.5	167
28	Electrical Tuning of Exciton-Plasmon Polariton Coupling in Monolayer MoS Integrated with Plasmonic Nanoantenna Lattice. <i>Nano Letters</i> , 2017 , 17, 4541-4547	11.5	96
27	Monolayer WS Nanopores for DNA Translocation with Light-Adjustable Sizes. <i>ACS Nano</i> , 2017 , 11, 1937-1945	16.7	70
26	Large area molybdenum disulphide- epitaxial graphene vertical Van der Waals heterostructures. <i>Scientific Reports</i> , 2016 , 6, 26656	4.9	63
25	Tunable Doping in Hydrogenated Single Layered Molybdenum Disulfide. <i>ACS Nano</i> , 2017 , 11, 1755-1761	16.7	60
24	Scalable Production of Molybdenum Disulfide Based Biosensors. <i>ACS Nano</i> , 2016 , 10, 6173-9	16.7	59
23	Large-area synthesis of high-quality monolayer 1T'WTe flakes. <i>2D Materials</i> , 2017 , 4,	5.9	56
22	Unidirectional Doubly Enhanced MoS Emission via Photonic Fano Resonances. <i>Nano Letters</i> , 2017 , 17, 6715-6720	11.5	52
21	Optomechanical Enhancement of Doubly Resonant 2D Optical Nonlinearity. <i>Nano Letters</i> , 2016 , 16, 1631-6	11.5	47
20	Interface dipole and band bending in the hybrid p̄n heterojunction MoS ₂ /GaN(0001). <i>Physical Review B</i> , 2017 , 96,	3.3	44
19	Defect engineering of single- and few-layer MoS ₂ by swift heavy ion irradiation. <i>2D Materials</i> , 2017 , 4, 015034	5.9	41
18	Transfer of monolayer TMD WS and Raman study of substrate effects. <i>Scientific Reports</i> , 2017 , 7, 43037	4.9	41

17	Ambient effects on electrical characteristics of CVD-grown monolayer MoS field-effect transistors. <i>Scientific Reports</i> , 2017 , 7, 4075	4.9	41
16	Electrolytic phototransistor based on graphene-MoS ₂ van der Waals p-n heterojunction with tunable photoresponse. <i>Applied Physics Letters</i> , 2016 , 109, 113103	3.4	36
15	Synthesis and Physical Properties of Phase-Engineered Transition Metal Dichalcogenide Monolayer Heterostructures. <i>ACS Nano</i> , 2017 , 11, 8619-8627	16.7	34
14	Crystalline Bilayer Graphene with Preferential Stacking from Ni-Cu Gradient Alloy. <i>ACS Nano</i> , 2018 , 12, 2275-2282	16.7	32
13	Scalable Production of Sensor Arrays Based on High-Mobility Hybrid Graphene Field Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27546-27552	9.5	31
12	Highly active single-layer MoS catalysts synthesized by swift heavy ion irradiation. <i>Nanoscale</i> , 2018 , 10, 22908-22916	7.7	26
11	Intrinsic Phonon Bands in High-Quality Monolayer TMolybdenum Ditelluride. <i>ACS Nano</i> , 2017 , 11, 814-820	16.7	24
10	Bandgap inhomogeneity of MoS ₂ monolayer on epitaxial graphene bilayer in van der Waals p-n junction. <i>Carbon</i> , 2016 , 110, 396-403	10.4	22
9	Dynamic Photochemical and Optoelectronic Control of Photonic Fano Resonances via Monolayer MoS Trions. <i>Nano Letters</i> , 2018 , 18, 957-963	11.5	20
8	Understanding the Different Exciton-Plasmon Coupling Regimes in Two-Dimensional Semiconductors Coupled with Plasmonic Lattices: A Combined Experimental and Unified Equation of Motion Approach. <i>ACS Photonics</i> , 2018 , 5, 192-204	6.3	20
7	Facile fabrication of a ultraviolet tunable MoS ₂ /p-Si junction diode. <i>Applied Physics Letters</i> , 2015 , 106, 193504	3.4	19
6	Photothermal characterization of MoS ₂ emission coupled to a microdisk cavity. <i>Applied Physics Letters</i> , 2016 , 109, 193109	3.4	11
5	Recoil Effect and Photoemission Splitting of Trions in Monolayer MoS. <i>ACS Nano</i> , 2017 , 11, 10808-10815	16.7	9
4	Monolayer WS ₂ crossed with an electro-spun PEDOT-PSS nano-ribbon: Fabricating a Schottky diode. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016 , 214, 68-73	7.1	6
3	pH Sensing Properties of Flexible, Bias-Free Graphene Microelectrodes in Complex Fluids: From Phosphate Buffer Solution to Human Serum. <i>Small</i> , 2017 , 13, 1700564	11	4
2	Advancing Monolayer 2-D nMOS and pMOS Transistor Integration From Growth to Van Der Waals Interface Engineering for Ultimate CMOS Scaling. <i>IEEE Transactions on Electron Devices</i> , 2021 , 1-7	2.9	4
1	MoS ₂ based dual input logic AND gate. <i>AIP Advances</i> , 2016 , 6, 125041	1.5	3