

Carl H Naylor

List of Publications by Year in descending order

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34
papers

2,947
citations

218381

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34
docs citations

34
times ranked

5936
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong Exciton-Plasmon Coupling in MoS ₂ Coupled with Plasmonic Lattice. Nano Letters, 2016, 16, 1262-1269.	4.5	331
2	Raman Shifts in Electron-Irradiated Monolayer MoS ₂ . ACS Nano, 2016, 10, 4134-4142.	7.3	311
3	Band Alignment and Minigaps in Monolayer MoS ₂ -Graphene van der Waals Heterostructures. Nano Letters, 2016, 16, 4054-4061.	4.5	288
4	Seeded growth of highly crystalline molybdenum disulphide monolayers at controlled locations. Nature Communications, 2015, 6, 6128.	5.8	259
5	Fano Resonance and Spectrally Modified Photoluminescence Enhancement in Monolayer MoS ₂ Integrated with Plasmonic Nanoantenna Array. Nano Letters, 2015, 15, 3646-3653.	4.5	246
6	Monolayer Single-Crystal 1T-MoTe ₂ Grown by Chemical Vapor Deposition Exhibits Weak Antilocalization Effect. Nano Letters, 2016, 16, 4297-4304.	4.5	205
7	Electrical Tuning of Exciton-Plasmon Polariton Coupling in Monolayer MoS ₂ Integrated with Plasmonic Nanoantenna Lattice. Nano Letters, 2017, 17, 4541-4547.	4.5	117
8	Monolayer WS ₂ Nanopores for DNA Translocation with Light-Adjustable Sizes. ACS Nano, 2017, 11, 1937-1945.	7.3	102
9	Tunable Doping in Hydrogenated Single Layered Molybdenum Disulfide. ACS Nano, 2017, 11, 1755-1761.	7.3	86
10	Large-area synthesis of high-quality monolayer 1T-WTe ₂ flakes. 2D Materials, 2017, 4, 021008.	2.0	81
11	Large area molybdenum disulphide- epitaxial graphene vertical Van der Waals heterostructures. Scientific Reports, 2016, 6, 26656.	1.6	73
12	Optomechanical Enhancement of Doubly Resonant 2D Optical Nonlinearity. Nano Letters, 2016, 16, 1631-1636.	4.5	71
13	Unidirectional Doubly Enhanced MoS ₂ Emission via Photonic Fano Resonances. Nano Letters, 2017, 17, 6715-6720.	4.5	69
14	Scalable Production of Molybdenum Disulfide Based Biosensors. ACS Nano, 2016, 10, 6173-6179.	7.3	68
15	Defect engineering of single- and few-layer MoS ₂ by swift heavy ion irradiation. 2D Materials, 2017, 4, 015034.	2.0	60
16	Ambient effects on electrical characteristics of CVD-grown monolayer MoS ₂ field-effect transistors. Scientific Reports, 2017, 7, 4075.	1.6	57
17	Interface dipole and band bending in the hybrid MoS ₂ /graphene heterojunction. Physical Review B, 2017, 96, 041407.	1.1	57
18	Transfer of monolayer TMD WS ₂ and Raman study of substrate effects. Scientific Reports, 2017, 7, 43037.	1.6	51

#	ARTICLE	IF	CITATIONS
19	Scalable Production of Sensor Arrays Based on High-Mobility Hybrid Graphene Field Effect Transistors. ACS Applied Materials & Interfaces, 2016, 8, 27546-27552.	4.0	44
20	Crystalline Bilayer Graphene with Preferential Stacking from Ni-Cu Gradient Alloy. ACS Nano, 2018, 12, 2275-2282.	7.3	43
21	Synthesis and Physical Properties of Phase-Engineered Transition Metal Dichalcogenide Monolayer Heterostructures. ACS Nano, 2017, 11, 8619-8627.	7.3	42
22	Electrolytic phototransistor based on graphene-MoS ₂ van der Waals p-n heterojunction with tunable photoresponse. Applied Physics Letters, 2016, 109, .	1.5	41
23	Highly active single-layer MoS ₂ catalysts synthesized by swift heavy ion irradiation. Nanoscale, 2018, 10, 22908-22916.	2.8	39
24	Intrinsic Phonon Bands in High-Quality Monolayer MoS_2 Molybdenum Ditelluride. ACS Nano, 2017, 11, 814-820.	7.3	37
25	Dynamic Photochemical and Optoelectronic Control of Photonic Fano Resonances via Monolayer MoS ₂ Trions. Nano Letters, 2018, 18, 957-963.	4.5	31
26	Understanding the Different Exciton-Plasmon Coupling Regimes in Two-Dimensional Semiconductors Coupled with Plasmonic Lattices: A Combined Experimental and Unified Equation of Motion Approach. ACS Photonics, 2018, 5, 192-204.	3.2	30
27	Bandgap inhomogeneity of MoS ₂ monolayer on epitaxial graphene bilayer in van der Waals p-n junction. Carbon, 2016, 110, 396-403.	5.4	27
28	Facile fabrication of a ultraviolet tunable MoS ₂ /p-Si junction diode. Applied Physics Letters, 2015, 106, .	1.5	21
29	Advancing Monolayer 2-D nMOS and pMOS Transistor Integration From Growth to Van Der Waals Interface Engineering for Ultimate CMOS Scaling. IEEE Transactions on Electron Devices, 2021, 68, 6592-6598.	1.6	20
30	Photothermal characterization of MoS ₂ emission coupled to a microdisk cavity. Applied Physics Letters, 2016, 109, .	1.5	13
31	Recoil Effect and Photoemission Splitting of Trions in Monolayer MoS ₂ . ACS Nano, 2017, 11, 10808-10815.	7.3	11
32	Monolayer WS ₂ crossed with an electro-spun PEDOT-PSS nano-ribbon: Fabricating a Schottky diode. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 214, 68-73.	1.7	7
33	pH Sensing Properties of Flexible, Bias-Free Graphene Microelectrodes in Complex Fluids: From Phosphate Buffer Solution to Human Serum. Small, 2017, 13, 1700564.	5.2	5
34	MoS ₂ based dual input logic AND gate. AIP Advances, 2016, 6, 125041.	0.6	4