

# Carl H Naylor

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/11717856/carl-h-naylor-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34  
papers

2,254  
citations

24  
h-index

34  
g-index

34  
ext. papers

2,614  
ext. citations

9.7  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
34	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> , <b>2021</b> , 1-7	2.9	4
33	Crystalline Bilayer Graphene with Preferential Stacking from Ni-Cu Gradient Alloy. <i>ACS Nano</i> , <b>2018</b> , 12, 2275-2282	16.7	32
32	Dynamic Photochemical and Optoelectronic Control of Photonic Fano Resonances via Monolayer MoS <sub>2</sub> Trions. <i>Nano Letters</i> , <b>2018</b> , 18, 957-963	11.5	20
31	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> , <b>2018</b> , 5, 192-204	6.3	20
30	Highly active single-layer MoS <sub>2</sub> catalysts synthesized by swift heavy ion irradiation. <i>Nanoscale</i> , <b>2018</b> , 10, 22908-22916	7.7	26
29	Defect engineering of single- and few-layer MoS <sub>2</sub> by swift heavy ion irradiation. <i>2D Materials</i> , <b>2017</b> , 4, 015034	5.9	41
28	Tunable Doping in Hydrogenated Single Layered Molybdenum Disulfide. <i>ACS Nano</i> , <b>2017</b> , 11, 1755-1761	16.7	60
27	Monolayer WS <sub>2</sub> Nanopores for DNA Translocation with Light-Adjustable Sizes. <i>ACS Nano</i> , <b>2017</b> , 11, 1937-1945	16.7	70
26	Transfer of monolayer TMD WS <sub>2</sub> and Raman study of substrate effects. <i>Scientific Reports</i> , <b>2017</b> , 7, 43037	4.9	41
25	Large-area synthesis of high-quality monolayer 1T'WTe <sub>2</sub> flakes. <i>2D Materials</i> , <b>2017</b> , 4,	5.9	56
24	Ambient effects on electrical characteristics of CVD-grown monolayer MoS <sub>2</sub> field-effect transistors. <i>Scientific Reports</i> , <b>2017</b> , 7, 4075	4.9	41
23	pH Sensing Properties of Flexible, Bias-Free Graphene Microelectrodes in Complex Fluids: From Phosphate Buffer Solution to Human Serum. <i>Small</i> , <b>2017</b> , 13, 1700564	11	4
22	Electrical Tuning of Exciton-Plasmon Polariton Coupling in Monolayer MoS <sub>2</sub> Integrated with Plasmonic Nanoantenna Lattice. <i>Nano Letters</i> , <b>2017</b> , 17, 4541-4547	11.5	96
21	Intrinsic Phonon Bands in High-Quality Monolayer TM <sub>2</sub> MoS <sub>2</sub> . <i>ACS Nano</i> , <b>2017</b> , 11, 814-820	16.7	24
20	Interface dipole and band bending in the hybrid p-n heterojunction MoS <sub>2</sub> /GaN(0001). <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	44
19	Unidirectional Doubly Enhanced MoS <sub>2</sub> Emission via Photonic Fano Resonances. <i>Nano Letters</i> , <b>2017</b> , 17, 6715-6720	11.5	52
18	Synthesis and Physical Properties of Phase-Engineered Transition Metal Dichalcogenide Monolayer Heterostructures. <i>ACS Nano</i> , <b>2017</b> , 11, 8619-8627	16.7	34

17	Recoil Effect and Photoemission Splitting of Trions in Monolayer MoS. <i>ACS Nano</i> , <b>2017</b> , 11, 10808-10815	16.7	9
16	Bandgap inhomogeneity of MoS <sub>2</sub> monolayer on epitaxial graphene bilayer in van der Waals p-n junction. <i>Carbon</i> , <b>2016</b> , 110, 396-403	10.4	22
15	Large area molybdenum disulphide- epitaxial graphene vertical Van der Waals heterostructures. <i>Scientific Reports</i> , <b>2016</b> , 6, 26656	4.9	63
14	Band Alignment and Minigaps in Monolayer MoS <sub>2</sub> -Graphene van der Waals Heterostructures. <i>Nano Letters</i> , <b>2016</b> , 16, 4054-61	11.5	230
13	Strong Exciton-Plasmon Coupling in MoS <sub>2</sub> Coupled with Plasmonic Lattice. <i>Nano Letters</i> , <b>2016</b> , 16, 1262-9	11.5	240
12	Raman Shifts in Electron-Irradiated Monolayer MoS <sub>2</sub> . <i>ACS Nano</i> , <b>2016</b> , 10, 4134-42	16.7	226
11	Optomechanical Enhancement of Doubly Resonant 2D Optical Nonlinearity. <i>Nano Letters</i> , <b>2016</b> , 16, 1631-6	11.5	47
10	MoS <sub>2</sub> based dual input logic AND gate. <i>AIP Advances</i> , <b>2016</b> , 6, 125041	1.5	3
9	Electrolytic phototransistor based on graphene-MoS <sub>2</sub> van der Waals p-n heterojunction with tunable photoresponse. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 113103	3.4	36
8	Photothermal characterization of MoS <sub>2</sub> emission coupled to a microdisk cavity. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 193109	3.4	11
7	Scalable Production of Molybdenum Disulfide Based Biosensors. <i>ACS Nano</i> , <b>2016</b> , 10, 6173-9	16.7	59
6	Monolayer Single-Crystal 1T'MoTe <sub>2</sub> Grown by Chemical Vapor Deposition Exhibits Weak Antilocalization Effect. <i>Nano Letters</i> , <b>2016</b> , 16, 4297-304	11.5	167
5	Scalable Production of Sensor Arrays Based on High-Mobility Hybrid Graphene Field Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27546-27552	9.5	31
4	Monolayer WS <sub>2</sub> 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> , <b>2016</b> , 214, 68-73	7.1	6
3	Fano Resonance and Spectrally Modified Photoluminescence Enhancement in Monolayer MoS <sub>2</sub> Integrated with Plasmonic Nanoantenna Array. <i>Nano Letters</i> , <b>2015</b> , 15, 3646-53	11.5	191
2	Facile fabrication of a ultraviolet tunable MoS <sub>2</sub> /p-Si junction diode. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 193504	3.4	19
1	Seeded growth of highly crystalline molybdenum disulphide monolayers at controlled locations. <i>Nature Communications</i> , <b>2015</b> , 6, 6128	17.4	229