

Yann-Wen Lan

List of Publications by Year in descending order

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papers

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687220

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#	ARTICLE	IF	CITATIONS
1	Strong Rashba-Edelstein Effect-Induced Spin-Orbit Torques in Monolayer Transition Metal Dichalcogenide/Ferromagnet Bilayers. <i>Nano Letters</i> , 2016, 16, 7514-7520.	4.5	247
2	Piezoelectric effect in chemical vapour deposition-grown atomic-monolayer triangular molybdenum disulfide piezotronics. <i>Nature Communications</i> , 2015, 6, 7430.	5.8	233
3	High-Current Gain Two-Dimensional MoS ₂ -Base Hot-Electron Transistors. <i>Nano Letters</i> , 2015, 15, 7905-7912.	4.5	52
4	Atomic-Monolayer Two-Dimensional Lateral Quasi-Heterojunction Bipolar Transistors with Resonant Tunneling Phenomenon. <i>ACS Nano</i> , 2017, 11, 11015-11023.	7.3	45
5	Atomic-Monolayer MoS ₂ Band-to-Band Tunneling Field-Effect Transistor. <i>Small</i> , 2016, 12, 5676-5683.	5.2	41
6	Using binary resistors to achieve multilevel resistive switching in multilayer NiO/Pt nanowire arrays. <i>NPG Asia Materials</i> , 2014, 6, e85-e85.	3.8	35
7	Scalable fabrication of a complementary logic inverter based on MoS ₂ fin-shaped field effect transistors. <i>Nanoscale Horizons</i> , 2019, 4, 683-688.	4.1	31
8	Anomalous lattice vibrations of CVD-grown monolayer MoS ₂ probed using linear polarized excitation light. <i>Nanoscale</i> , 2019, 11, 13725-13730.	2.8	24
9	Local Modulation of Electrical Transport in 2D Layered Materials Induced by Electron Beam Irradiation. <i>ACS Applied Electronic Materials</i> , 2019, 1, 684-691.	2.0	20
10	Selective Photoexcitation of Finite-Momentum Excitons in Monolayer MoS ₂ by Twisted Light. <i>ACS Nano</i> , 2021, 15, 3481-3489.	7.3	17
11	Control of trion-to-exciton conversion in monolayer WS ₂ by orbital angular momentum of light. <i>Science Advances</i> , 2022, 8, eabm0100.	4.7	16
12	Polymer-Free Patterning of Graphene at Sub-10 nm Scale by Low-Energy Repetitive Electron Beam. <i>Small</i> , 2014, 10, 4778-4784.	5.2	14
13	Self-aligned graphene oxide nanoribbon stack with gradient bandgap for visible-light photodetection. <i>Nano Energy</i> , 2016, 27, 114-120.	8.2	14
14	Polarity-controllable MoS ₂ transistor for adjustable complementary logic inverter applications. <i>Nanoscale Horizons</i> , 2020, 5, 163-170.	4.1	14
15	Effect of focused ion beam deposition induced contamination on the transport properties of nano devices. <i>Nanotechnology</i> , 2015, 26, 055705.	1.3	13
16	Effective N-methyl-2-pyrrolidone wet cleaning for fabricating high-performance monolayer MoS ₂ transistors. <i>Nano Research</i> , 2019, 12, 303-308.	5.8	13
17	Force and light tuning vertical tunneling current in the atomic layered MoS ₂ . <i>Nanotechnology</i> , 2018, 29, 275202.	1.3	10
18	High-Frequency Graphene Base Hot-Electron Transistor. <i>ACS Nano</i> , 2021, 15, 6756-6764.	7.3	9

#	ARTICLE	IF	CITATIONS
19	Photo-response of a nanopore device with a single embedded ZnO nanoparticle. Nanotechnology, 2012, 23, 165201.	1.3	8
20	Superior phototransistors based on a single ZnO nanoparticle with high mobility and ultrafast response time. Nanoscale Horizons, 2020, 5, 82-88.	4.1	7
21	Tuning Interfacial Thermal and Electrical Conductance across a Metal/MoS ₂ Monolayer through N-Methylpyrrolidone Wet Cleaning. Advanced Materials Interfaces, 2020, 7, 2000364.	1.9	7
22	Two-dimensional solid-phase crystallization toward centimeter-scale monocrystalline layered MoTe ₂ via two-step annealing. Journal of Materials Chemistry C, 2021, 9, 15566-15576.	2.7	7
23	Twisted Light-Enhanced Photovoltaic Effect. ACS Nano, 2021, 15, 14822-14829.	7.3	6
24	A Standard and Reliable Method to Fabricate Two-Dimensional Nanoelectronics. Journal of Visualized Experiments, 2018, , .	0.2	5
25	Generation of Concentric Space-Variant Linear Polarized Light by Dielectric Metalens. Nano Letters, 2021, 21, 562-568.	4.5	5
26	Spontaneously induced magnetic anisotropy in an ultrathin Co/MoS ₂ heterojunction. Nanoscale Horizons, 2020, 5, 1058-1064.	4.1	4
27	Room temperature negative differential resistance in clay-graphite paper transistors. Carbon, 2021, 176, 440-445.	5.4	4
28	Nonvolatile molecular memory with the multilevel states based on MoS ₂ nanochannel field effect transistor through tuning gate voltage to control molecular configurations. Nanotechnology, 2020, 31, 275204.	1.3	3
29	Twisted light induced magnetic anisotropy changes in an interlayer exchange coupling system. Nanoscale Horizons, 2021, 6, 462-467.	4.1	1
30	Twisted Light-Induced Photocurrent in a Silicon Nanowire Field-Effect Transistor. ACS Nano, 2022, 16, 9297-9303.	7.3	1