

# Sanfeng Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

10,477  
citations

147566

31  
h-index

360668

35  
g-index

39  
all docs

39  
docs citations

39  
times ranked

12641  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of long-lived interlayer excitons in monolayer MoSe <sub>2</sub> /WSe <sub>2</sub> heterostructures. Nature Communications, 2015, 6, 6242.	5.8	1,252
2	Electrical control of neutral and charged excitons in a monolayer semiconductor. Nature Communications, 2013, 4, 1474.	5.8	1,246
3	Optical generation of excitonic valley coherence in monolayer WSe <sub>2</sub> . Nature Nanotechnology, 2013, 8, 634-638.	15.6	1,210
4	Lateral heterojunctions within monolayer MoSe <sub>2</sub> /WSe <sub>2</sub> semiconductors. Nature Materials, 2014, 13, 1096-1101.	13.3	872
5	Monolayer semiconductor nanocavity lasers with ultralow thresholds. Nature, 2015, 520, 69-72.	13.7	713
6	Observation of the quantum spin Hall effect up to 100 kelvin in a monolayer crystal. Science, 2018, 359, 76-79.	6.0	613
7	Electrical tuning of valley magnetic moment through symmetry control in bilayer MoS <sub>2</sub> . Nature Physics, 2013, 9, 149-153.	6.5	540
8	Zeeman-type spin splitting controlled by an electric field. Nature Physics, 2013, 9, 563-569.	6.5	462
9	Edge conduction in monolayer WTe <sub>2</sub> . Nature Physics, 2017, 13, 677-682.	6.5	457
10	Electrical control of second-harmonic generation in a WSe <sub>2</sub> monolayer transistor. Nature Nanotechnology, 2015, 10, 407-411.	15.6	406
11	Vapor-Solid Growth of High Optical Quality MoS <sub>2</sub> Monolayers with Near-Unity Valley Polarization. ACS Nano, 2013, 7, 2768-2772.	7.3	389
12	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. Nature, 2019, 565, 337-342.	13.7	372
13	Electrically tunable low-density superconductivity in a monolayer topological insulator. Science, 2018, 362, 926-929.	6.0	271
14	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe <sub>2</sub> . Nature Physics, 2018, 14, 900-906.	6.5	249
15	NMR Implementation of a Molecular Hydrogen Quantum Simulation with Adiabatic State Preparation. Physical Review Letters, 2010, 104, 030502.	2.9	194
16	Control of two-dimensional excitonic light emission via photonic crystal. 2D Materials, 2014, 1, 011001.	2.0	144
17	Nanocavity Integrated van der Waals Heterostructure Light-Emitting Tunneling Diode. Nano Letters, 2017, 17, 200-205.	4.5	129
18	Quantum-Enhanced Tunable Second-Order Optical Nonlinearity in Bilayer Graphene. Nano Letters, 2012, 12, 2032-2036.	4.5	115

#	ARTICLE	IF	CITATIONS
19	Coherent Electronic Coupling in Atomically Thin $\text{MoSe}_2$ . Physical Review Letters, 2014, 112, .	2.9	108
20	High mobility in a van der Waals layered antiferromagnetic metal. Science Advances, 2020, 6, eaay6407.	4.7	85
21	Evolution of the Valley Position in Bulk Transition-Metal Chalcogenides and Their Monolayer Limit. Nano Letters, 2016, 16, 4738-4745.	4.5	80
22	Evidence for a monolayer excitonic insulator. Nature Physics, 2022, 18, 87-93.	6.5	70
23	Valley-splitting and valley-dependent inter-Landau-level optical transitions in monolayer $\text{MoS}_2$ quantum Hall systems. Physical Review B, 2014, 90, .	1.1	67
24	Deep Learning Enabled Fast Optical Identification and Characterization of 2D Materials. Advanced Materials, 2020, 32, e2000953.	11.1	54
25	Landau quantization and highly mobile fermions in an insulator. Nature, 2021, 589, 225-229.	13.7	54
26	Vapor-transport growth of high optical quality $\text{WSe}_2$ monolayers. APL Materials, 2014, 2, .	2.2	52
27	Observation of the Ground-State Geometric Phase in a Heisenberg $\text{X}_2\text{Y}_2$ Model. Physical Review Letters, 2010, 105, 240405.	2.9	47
28	Systematic Doping Control of CVD Graphene Transistors with Functionalized Aromatic Self-Assembled Monolayers. Advanced Functional Materials, 2014, 24, 3464-3470.	7.8	45
29	One-dimensional Luttinger liquids in a two-dimensional moiré lattice. Nature, 2022, 605, 57-62.	13.7	44
30	Multiple hot-carrier collection in photo-excited graphene Moiré superlattices. Science Advances, 2016, 2, e1600002.	4.7	42
31	Many-body effects in nonlinear optical responses of 2D layered semiconductors. 2D Materials, 2017, 4, 025024.	2.0	35
32	Research Update: Recent progress on 2D materials beyond graphene: From ripples, defects, intercalation, and valley dynamics to straintronics and power dissipation. APL Materials, 2018, 6, .	2.2	30
33	Experimental progress on layered topological semimetals. 2D Materials, 2019, 6, 032001.	2.0	26
34	On the vertical stacking in semiconducting $\text{WSe}_2$ bilayers. Materials Science and Technology, 2016, 32, 226-231.	0.8	3
35	Coherent Electronic Coupling in Transition Metal Dichalcogenide Monolayer. , 2014, , .		0
36	Towards few-photon optoelectronics with photonic crystal devices. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
37	Two-dimensional materials for integrated optoelectronic information technology. , 2016, , .		0
38	Progress in 2D semiconductor optoelectronics. Proceedings of SPIE, 2017, , .	0.8	0