

# 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	Evidence for a monolayer excitonic insulator. <i>Nature Physics</i> , 2022, 18, 87-93.	6.5	70
2	One-dimensional Luttinger liquids in a two-dimensional moiré lattice. <i>Nature</i> , 2022, 605, 57-62.	13.7	44
3	Landau quantization and highly mobile fermions in an insulator. <i>Nature</i> , 2021, 589, 225-229.	13.7	54
4	Deep Learning-Enabled Fast Optical Identification and Characterization of 2D Materials. <i>Advanced Materials</i> , 2020, 32, e2000953.	11.1	54
5	High mobility in a van der Waals layered antiferromagnetic metal. <i>Science Advances</i> , 2020, 6, eaay6407.	4.7	85
6	Experimental progress on layered topological semimetals. <i>2D Materials</i> , 2019, 6, 032001.	2.0	26
7	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. <i>Nature</i> , 2019, 565, 337-342.	13.7	372
8	Observation of the quantum spin Hall effect up to 100 kelvin in a monolayer crystal. <i>Science</i> , 2018, 359, 76-79.	6.0	613
9	Electrically tunable low-density superconductivity in a monolayer topological insulator. <i>Science</i> , 2018, 362, 926-929.	6.0	271
10	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe <sub>2</sub> . <i>Nature Physics</i> , 2018, 14, 900-906.	6.5	249
11	Research Update: Recent progress on 2D materials beyond graphene: From ripples, defects, intercalation, and valley dynamics to straintronics and power dissipation. <i>APL Materials</i> , 2018, 6, .	2.2	30
12	Many-body effects in nonlinear optical responses of 2D layered semiconductors. <i>2D Materials</i> , 2017, 4, 025024.	2.0	35
13	Edge conduction in monolayer WTe <sub>2</sub> . <i>Nature Physics</i> , 2017, 13, 677-682.	6.5	457
14	Progress in 2D semiconductor optoelectronics. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
15	Nanocavity Integrated van der Waals Heterostructure Light-Emitting Tunneling Diode. <i>Nano Letters</i> , 2017, 17, 200-205.	4.5	129
16	Evolution of the Valley Position in Bulk Transition-Metal Chalcogenides and Their Monolayer Limit. <i>Nano Letters</i> , 2016, 16, 4738-4745.	4.5	80
17	On the vertical stacking in semiconducting WSe <sub>2</sub> bilayers. <i>Materials Science and Technology</i> , 2016, 32, 226-231.	0.8	3
18	Two-dimensional materials for integrated optoelectronic information technology. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	Multiple hot-carrier collection in photo-excited graphene Moiré superlattices. Science Advances, 2016, 2, e1600002.	4.7	42
20	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
21	Electrical control of second-harmonic generation in a WSe <sub>2</sub> monolayer transistor. Nature Nanotechnology, 2015, 10, 407-411.	15.6	406
22	Monolayer semiconductor nanocavity lasers with ultralow thresholds. Nature, 2015, 520, 69-72.	13.7	713
23	Coherent Electronic Coupling in Transition Metal Dichalcogenide Monolayer. , 2014, , .		0
24	Towards few-photon optoelectronics with photonic crystal devices. , 2014, , .		0
25	Vapor-transport growth of high optical quality WSe <sub>2</sub> monolayers. APL Materials, 2014, 2, .	2.2	52
26	Coherent Electronic Coupling in Atomically Thin $\text{MoSe}_2/\text{WSe}_2$ Heterostructures. Physical Review Letters, 2014, 112, .	2.9	108
27	Control of two-dimensional excitonic light emission via photonic crystal. 2D Materials, 2014, 1, 011001.	2.0	144
28	Lateral heterojunctions within monolayer MoSe <sub>2</sub> /WSe <sub>2</sub> semiconductors. Nature Materials, 2014, 13, 1096-1101.	13.3	872
29	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
30	Systematic Doping Control of CVD Graphene Transistors with Functionalized Aromatic Self-Assembled Monolayers. Advanced Functional Materials, 2014, 24, 3464-3470.	7.8	45
31	Zeeman-type spin splitting controlled by an electric field. Nature Physics, 2013, 9, 563-569.	6.5	462
32	Optical generation of excitonic valley coherence in monolayer WSe <sub>2</sub> . Nature Nanotechnology, 2013, 8, 634-638.	15.6	1,210
33	Electrical tuning of valley magnetic moment through symmetry control in bilayer MoS <sub>2</sub> . Nature Physics, 2013, 9, 149-153.	6.5	540
34	Vapor-Solid Growth of High Optical Quality $\text{MoS}_2$ Monolayers with Near-Unity Valley Polarization. ACS Nano, 2013, 7, 2768-2772.	7.3	389
35	Electrical control of neutral and charged excitons in a monolayer semiconductor. Nature Communications, 2013, 4, 1474.	5.8	1,246
36	Quantum-Enhanced Tunable Second-Order Optical Nonlinearity in Bilayer Graphene. Nano Letters, 2012, 12, 2032-2036.	4.5	115

#	ARTICLE	IF	CITATIONS
37	Observation of the Ground-State Geometric Phase in a Heisenberg $X$ $Y$ Model. Physical Review Letters, 2010, 105, 240405.	2.9	47
38	NMR Implementation of a Molecular Hydrogen Quantum Simulation with Adiabatic State Preparation. Physical Review Letters, 2010, 104, 030502.	2.9	194