

# Jun Xiao

## List of Publications by Citations

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26  
papers

3,829  
citations

18  
h-index

31  
g-index

31  
ext. papers

4,879  
ext. citations

18.5  
avg, IF

5.04  
L-index

#	Paper	IF	Citations
26	Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 744-749	28.7	828
25	Near-unity photoluminescence quantum yield in MoS <sub>2</sub> . <i>Science</i> , <b>2015</b> , 350, 1065-8	33.3	792
24	Observation of piezoelectricity in free-standing monolayer MoS <sub>2</sub> . <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 151-52	28.7	537
23	Structural phase transition in monolayer MoTe driven by electrostatic doping. <i>Nature</i> , <b>2017</b> , 550, 487-491	30.4	390
22	Enhanced ferroelectricity in ultrathin films grown directly on silicon. <i>Nature</i> , <b>2020</b> , 580, 478-482	50.4	232
21	Electrical generation and control of the valley carriers in a monolayer transition metal dichalcogenide. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 598-602	28.7	195
20	Intrinsic Two-Dimensional Ferroelectricity with Dipole Locking. <i>Physical Review Letters</i> , <b>2018</b> , 120, 227601	7.4	170
19	Observation of chiral phonons. <i>Science</i> , <b>2018</b> , 359, 579-582	33.3	110
18	Atomically phase-matched second-harmonic generation in a 2D crystal. <i>Light: Science and Applications</i> , <b>2016</b> , 5, e16131	16.7	109
17	Excitons in atomically thin 2D semiconductors and their applications. <i>Nanophotonics</i> , <b>2017</b> , 6, 1309-1328	6.3	100
16	Nonlinear optical selection rule based on valley-exciton locking in monolayer ws <sub>2</sub> . <i>Light: Science and Applications</i> , <b>2015</b> , 4, e366-e366	16.7	70
15	Epitaxial Single-Layer MoS on GaN with Enhanced Valley Helicity. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703888	24	55
14	Strain-induced room-temperature ferroelectricity in SrTiO membranes. <i>Nature Communications</i> , <b>2020</b> , 11, 3141	17.4	51
13	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , <b>2019</b> , 10, 5589	17.4	36
12	Berry curvature memory through electrically driven stacking transitions. <i>Nature Physics</i> , <b>2020</b> , 16, 1028-1034	16.4	34
11	Second harmonic generation spectroscopy on two-dimensional materials [Invited]. <i>Optical Materials Express</i> , <b>2019</b> , 9, 1136	2.6	27
10	Polymer bonded magnets. II. Effect of liquid crystal polymer and surface modification on magneto-mechanical properties. <i>Polymer Composites</i> , <b>2000</b> , 21, 332-342	3	22

9	Vertical Self-Assembly of Polarized Phage Nanostructure for Energy Harvesting. <i>Nano Letters</i> , <b>2019</b> , 19, 2661-2667	11.5	18
8	Ultrafast fluorescent decay induced by metal-mediated dipole-dipole interaction in two-dimensional molecular aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10017-10022	11.5	13
7	Polymer-bonded magnets: Part I. Analytic thermogravimetry to determine the effect of surface modification on dispersion of NdFeB fillers. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 2893-2896	2.5	13
6	Ultrafast Spontaneous Emission from a Slot-Antenna Coupled WSe <sub>2</sub> Monolayer. <i>ACS Photonics</i> , <b>2018</b> , 5, 2701-2705	6.3	12
5	Twist-Angle-Dependent Ultrafast Charge Transfer in MoS <sub>2</sub> -Graphene van der Waals Heterostructures. <i>Nano Letters</i> , <b>2021</b> , 21, 8051-8057	11.5	8
4	High Performance, Light weight Thermoplastic/Rare Earth Alloy Magnets. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 577, 75		3
3	Classifying tachycardias via high dimensional linear discriminant function and perceptron with multi-piece domain activation function <b>2015</b> ,		1
2	Enhanced Spontaneous Emission from an Optical Antenna Coupled WSe <sub>2</sub> Monolayer <b>2015</b> ,		1
1	Direct electrical modulation of second-order optical susceptibility via phase transitions. <i>Nature Electronics</i> , <b>2021</b> , 4, 725-730	28.4	0