Jun Xiao

List of Publications by Year in descending order

30 papers	5,967 citations	394421 19 h-index	552781 26 g-index
31 all docs	31 docs citations	31 times ranked	9123 citing authors

#	Article	IF	Citations
1	Janus monolayers of transition metal dichalcogenides. Nature Nanotechnology, 2017, 12, 744-749.	31.5	1,459
2	Near-unity photoluminescence quantum yield in MoS ₂. Science, 2015, 350, 1065-1068.	12.6	993
3	Observation of piezoelectricity in free-standing monolayer MoS2. Nature Nanotechnology, 2015, 10, 151-155.	31.5	685
4	Structural phase transition in monolayer MoTe2 driven by electrostatic doping. Nature, 2017, 550, 487-491.	27.8	548
5	Enhanced ferroelectricity in ultrathin films grown directly on silicon. Nature, 2020, 580, 478-482.	27.8	486
6	Intrinsic Two-Dimensional Ferroelectricity with Dipole Locking. Physical Review Letters, 2018, 120, 227601.	7.8	322
7	Electrical generation and control of the valley carriers in a monolayer transition metal dichalcogenide. Nature Nanotechnology, 2016, 11, 598-602.	31.5	259
8	Observation of chiral phonons. Science, 2018, 359, 579-582.	12.6	217
9	Atomically phase-matched second-harmonic generation in a 2D crystal. Light: Science and Applications, 2016, 5, e16131-e16131.	16.6	165
10	Excitons in atomically thin 2D semiconductors and their applications. Nanophotonics, 2017, 6, 1309-1328.	6.0	154
11	Strain-induced room-temperature ferroelectricity in SrTiO3 membranes. Nature Communications, 2020, 11, 3141.	12.8	121
12	Berry curvature memory through electrically driven stacking transitions. Nature Physics, 2020, 16, 1028-1034.	16.7	100
13	Nonlinear optical selection rule based on valley-exciton locking in monolayer ws2. Light: Science and Applications, 2015, 4, e366-e366.	16.6	99
14	Epitaxial Singleâ€Layer MoS₂ on GaN with Enhanced Valley Helicity. Advanced Materials, 2018, 30, 1703888.	21.0	80
15	Strong optical response and light emission from a monolayer molecular crystal. Nature Communications, 2019, 10, 5589.	12.8	59
16	Second harmonic generation spectroscopy on two-dimensional materials [Invited]. Optical Materials Express, 2019, 9, 1136.	3.0	45
17	Vertical Self-Assembly of Polarized Phage Nanostructure for Energy Harvesting. Nano Letters, 2019, 19, 2661-2667.	9.1	39
18	Twist-Angle-Dependent Ultrafast Charge Transfer in MoS₂-Graphene van der Waals Heterostructures. Nano Letters, 2021, 21, 8051-8057.	9.1	30

#	Article	IF	Citations
19	Polymer bonded magnets. II. Effect of liquid crystal polymer and surface modification on magneto-mechanical properties. Polymer Composites, 2000, 21, 332-342.	4.6	26
20	Ultrafast Spontaneous Emission from a Slot-Antenna Coupled WSe₂ Monolayer. ACS Photonics, 2018, 5, 2701-2705.	6.6	17
21	Direct electrical modulation of second-order optical susceptibility via phase transitions. Nature Electronics, 2021, 4, 725-730.	26.0	16
22	Polymer-bonded magnets: Part I. Analytic thermogravimetry to determine the effect of surface modification on dispersion of Ndâ€“Feâ€“B fillers. Journal of Materials Research, 1999, 14, 2893-2896.	2.6	15
23	Ultrafast fluorescent decay induced by metal-mediated dipoleâ€“dipole interaction in two-dimensional molecular aggregates. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10017-10022.	7.1	14
24	<scp>Inq</scp>, a Modern GPU-Accelerated Computational Framework for (Time-Dependent) Density Functional Theory. Journal of Chemical Theory and Computation, 2021, 17, 7447-7467.	5.3	7
25	High Performance, Light weight Thermoplastic/Rare Earth Alloy Magnets. Materials Research Society Symposia Proceedings, 1999, 577, 75.	0.1	3
26	Enhanced Spontaneous Emission from an Optical Antenna Coupled WSe2 Monolayer. , 2015, , .		3
27	Classifying tachycardias via high dimensional linear discriminant function and perceptron with mult-piece domain activation function. , 2015, , .		2
28	Optical slot antennas for enhancement of WSe<inf>2</inf> spontaneous emission rate. , 2015, , .		0
29	Spectroscopic signature of chiral phonons in 2D materials. , 2018, , .		0
30	Experimental observation of chiral phonons in monolayer WSe2. , 2019, , .		0