

Jun Xiao

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

5,967
citations

393982

19
h-index

552369

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.	15.6	1,459
2	Near-unity photoluminescence quantum yield in MoS ₂ . Science, 2015, 350, 1065-1068.	6.0	993
3	Observation of piezoelectricity in free-standing monolayer MoS ₂ . Nature Nanotechnology, 2015, 10, 151-155.	15.6	685
4	Structural phase transition in monolayer MoTe ₂ driven by electrostatic doping. Nature, 2017, 550, 487-491.	13.7	548
5	Enhanced ferroelectricity in ultrathin films grown directly on silicon. Nature, 2020, 580, 478-482.	13.7	486
6	Intrinsic Two-Dimensional Ferroelectricity with Dipole Locking. Physical Review Letters, 2018, 120, 227601.	2.9	322
7	Electrical generation and control of the valley carriers in a monolayer transition metal dichalcogenide. Nature Nanotechnology, 2016, 11, 598-602.	15.6	259
8	Observation of chiral phonons. Science, 2018, 359, 579-582.	6.0	217
9	Atomically phase-matched second-harmonic generation in a 2D crystal. Light: Science and Applications, 2016, 5, e16131-e16131.	7.7	165
10	Excitons in atomically thin 2D semiconductors and their applications. Nanophotonics, 2017, 6, 1309-1328.	2.9	154
11	Strain-induced room-temperature ferroelectricity in SrTiO ₃ membranes. Nature Communications, 2020, 11, 3141.	5.8	121
12	Berry curvature memory through electrically driven stacking transitions. Nature Physics, 2020, 16, 1028-1034.	6.5	100
13	Nonlinear optical selection rule based on valley-exciton locking in monolayer ws ₂ . Light: Science and Applications, 2015, 4, e366-e366.	7.7	99
14	Epitaxial Single-Layer MoS ₂ on GaN with Enhanced Valley Helicity. Advanced Materials, 2018, 30, 1703888.	11.1	80
15	Strong optical response and light emission from a monolayer molecular crystal. Nature Communications, 2019, 10, 5589.	5.8	59
16	Second harmonic generation spectroscopy on two-dimensional materials [Invited]. Optical Materials Express, 2019, 9, 1136.	1.6	45
17	Vertical Self-Assembly of Polarized Phage Nanostructure for Energy Harvesting. Nano Letters, 2019, 19, 2661-2667.	4.5	39
18	Twist-Angle-Dependent Ultrafast Charge Transfer in MoS ₂ -Graphene van der Waals Heterostructures. Nano Letters, 2021, 21, 8051-8057.	4.5	30

#	ARTICLE	IF	CITATIONS
19	Polymer bonded magnets. II. Effect of liquid crystal polymer and surface modification on magneto-mechanical properties. <i>Polymer Composites</i> , 2000, 21, 332-342.	2.3	26
20	Ultrafast Spontaneous Emission from a Slot-Antenna Coupled WSe ₂ Monolayer. <i>ACS Photonics</i> , 2018, 5, 2701-2705.	3.2	17
21	Direct electrical modulation of second-order optical susceptibility via phase transitions. <i>Nature Electronics</i> , 2021, 4, 725-730.	13.1	16
22	Polymer-bonded magnets: Part I. Analytic thermogravimetry to determine the effect of surface modification on dispersion of Nd-Fe-B fillers. <i>Journal of Materials Research</i> , 1999, 14, 2893-2896.	1.2	15
23	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> , 2017, 114, 10017-10022.	3.3	14
24	scp, a Modern GPU-Accelerated Computational Framework for (Time-Dependent) Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7447-7467.	2.3	7
25	High Performance, Light weight Thermoplastic/Rare Earth Alloy Magnets. <i>Materials Research Society Symposia Proceedings</i> , 1999, 577, 75.	0.1	3
26	Enhanced Spontaneous Emission from an Optical Antenna Coupled WSe ₂ Monolayer. , 2015, , .		3
27	Classifying tachycardias via high dimensional linear discriminant function and perceptron with multi-piece domain activation function. , 2015, , .		2
28	Optical slot antennas for enhancement of WSe ₂ spontaneous emission rate. , 2015, , .		0
29	Spectroscopic signature of chiral phonons in 2D materials. , 2018, , .		0
30	Experimental observation of chiral phonons in monolayer WSe ₂ . , 2019, , .		0