Saien Xie

List of Publications by Year in Descending Order

26 papers	2,504 citations	12 h-index	26 g-index
26 ext. papers	3,033 ext. citations	14.3 avg, IF	4.91 L-index

#	Paper	IF	Citations
26	Resist-Free Lithography for Monolayer Transition Metal Dichalcogenides.. *Nano Letters*, **2022**,	11.5	3
25	Strong interlayer interactions in bilayer and trilayer moir superlattices.. *Science Advances*, **2022**, 8, eabk1911	14.3	1
24	Utilizing complex oxide substrates to control carrier concentration in large-area monolayer MoS2 films. *Applied Physics Letters*, **2021**, 118, 093103	3.4	7
23	Local Electronic Properties of Coherent Single-Layer WS/WSe Lateral Heterostructures. *Nano Letters*, **2021**, 21, 2363-2369	11.5	4
22	Interfacial Electron-Phonon Coupling Constants Extracted from Intrinsic Replica Bands in Monolayer FeSe/SrTiO_{3}. *Physical Review Letters*, **2021**, 127, 016803	7.4	4
21	Impact of 2D-3D Heterointerface on Remote Epitaxial Interaction through Graphene. *ACS Nano*, **2021**, 15, 10587-10596	16.7	15
20	Tuning Electrical Conductance of MoS Monolayers through Substitutional Doping. *Nano Letters*, **2020**, 20, 4095-4101	11.5	59
19	Evidence for the Dominance of Carrier-Induced Band Gap Renormalization over Biexciton Formation in Cryogenic Ultrafast Experiments on MoS Monolayers. *Journal of Physical Chemistry Letters*, **2020**, 11, 2658-2666	6.4	11
18	Imaging Polarity in Two Dimensional Materials by Breaking Friedel's Law. *Ultramicroscopy*, **2020**, 215, 113019	3.1	8
17	Heterogeneous integration of single-crystalline complex-oxide membranes. *Nature*, **2020**, 578, 75-81	50.4	107
16	Uncovering Atomic and Nano-scale Deformations in Two-dimensional Lateral Heterojunctions. *Microscopy and Microanalysis*, **2020**, 26, 1630-1631	0.5	
15	Coherent, atomically thin transition-metal dichalcogenide superlattices with engineered strain. *Science*, **2018**, 359, 1131-1136	33.3	170
14	Electron ptychography of 2D materials to deep sub-ngstrm resolution. *Nature*, **2018**, 559, 343-349	50.4	269
13	Real-space Demonstration of 0.4 Angstrom Resolution at 80 keV via Electron Ptychography with a High Dynamic Range Pixel Array Detector. *Microscopy and Microanalysis*, **2018**, 24, 194-195	0.5	
12	Mapping Strain and Relaxation in 2D Heterojunctions with Sub-picometer Precision. *Microscopy and Microanalysis*, **2018**, 24, 1588-1589	0.5	
11	Strain Mapping of Two-Dimensional Heterostructures with Subpicometer Precision. *Nano Letters*, **2018**, 18, 3746-3751	11.5	50
10	Absence of a Band Gap at the Interface of a Metal and Highly Doped Monolayer MoS. *Nano Letters*, **2017**, 17, 5962-5968	11.5	27

9	Layer-by-layer assembly of two-dimensional materials into wafer-scale heterostructures. *Nature*, **2017**, 550, 229-233	50.4	305
8	Picometer-Precision Strain Mapping of Two-Dimensional Heterostructures using an Electron Microscope Pixel Array Detector (EMPAD). *Microscopy and Microanalysis*, **2017**, 23, 1712-1713	0.5	
7	Breaking Friedel's Law in Polar Two Dimensional Materials. *Microscopy and Microanalysis*, **2017**, 23, 1738-1739	0.5	1
6	Electron Diffraction from a Single Atom and Optimal Signal Detection. *Microscopy and Microanalysis* , **2016**, 22, 846-847	0.5	3
5	Atomically Thin Ohmic Edge Contacts Between Two-Dimensional Materials. *ACS Nano*, **2016**, 10, 6392-9	16.7	144
4	Strain Accommodation and Coherency in Laterally-Stitched WSe 2 /WS 2 Junctions. *Microscopy and Microanalysis*, **2016**, 22, 870-871	0.5	5
3	Atomic-Scale Spectroscopy of Gated Monolayer MoS2. *Nano Letters*, **2016**, 16, 3148-54	11.5	23
2	Long-Lived Hole Spin/Valley Polarization Probed by Kerr Rotation in Monolayer WSe2. *Nano Letters*, **2016**, 16, 5010-4	11.5	64
1	High-mobility three-atom-thick semiconducting films with wafer-scale homogeneity. *Nature*, **2015**, 520, 656-60	50.4	1224