Luojun Du

List of Publications by Year in Descending Order

46 papers	1,658 citations	19 h-index	40 g-index
49 ext. papers	2,194 ext. citations	9.7 avg, IF	4.49 L-index

#	Paper	IF	Citations
46	Spatially indirect intervalley excitons in bilayer WSe2. *Physical Review B*, **2022**, 105,	3.3	2
45	Switchable Photoresponse Mechanisms Implemented in Single van der Waals Semiconductor/Metal Heterostructure.. *ACS Nano*, **2022**,	16.7	7
44	Interlayer exciton complexes in bilayer MoS2. *Physical Review B*, **2022**, 105,	3.3	3
43	Engineering the Dipole Orientation and Symmetry Breaking with Mixed-Dimensional Heterostructures.. *Advanced Science*, **2022**, e2200082	13.6	1
42	Probing Electronic States in Monolayer Semiconductors through Static and Transient Third-Harmonic Spectroscopies. *Advanced Materials*, **2021**, e2107104	24	0
41	Determining Quasiparticle Bandgap of Two-Dimensional Transition Metal Dichalcogenides by Observation of Hot Carrier Relaxation Dynamics. *Journal of Physical Chemistry Letters*, **2021**, 12, 585-591	6.4	1
40	Thermally induced band hybridization in bilayer-bilayer MoS2/WS2 heterostructure*. *Chinese Physics B*, **2021**, 30, 057801	1.2	2
39	Dual-gated monoBilayer graphene junctions. *Nanoscale Advances*, **2021**, 3, 399-406	5.1	2
38	Engineering symmetry breaking in 2D layered materials. *Nature Reviews Physics*, **2021**, 3, 193-206	23.6	45
37	Giant anisotropic photonics in the 1D van der Waals semiconductor fibrous red phosphorus. *Nature Communications*, **2021**, 12, 4822	17.4	7
36	Ultra-low friction and edge-pinning effect in large-lattice-mismatch van der Waals heterostructures. *Nature Materials*, **2021**,	27	21
35	Comment on "Disentangling Orbital and Valley Hall Effects in Bilayers of Transition Metal Dichalcogenides". *Physical Review Letters*, **2021**, 127, 149701	7.4	1
34	Single-step chemical vapour deposition of anti-pyramid MoS/WS vertical heterostructures. *Nanoscale*, **2021**, 13, 4537-4542	7.7	8
33	Precise control of the interlayer twist angle in large scale MoS homostructures. *Nature Communications*, **2020**, 11, 2153	17.4	55
32	Raman fingerprints and exciton-phonon coupling in 2D ternary layered semiconductor InSeBr. *Applied Physics Letters*, **2020**, 116, 163105	3.4	0
31	Twisting for Tunable Nonlinear Optics. *Matter*, **2020**, 3, 987-988	12.7	9
30	Observation of logarithmic Kohn anomaly in monolayer graphene. *Physical Review B*, **2020**, 102,	3.3	3

29	Large-scale flexible and transparent electronics based on monolayer molybdenum disulfide field-effect transistors. *Nature Electronics*, **2020**, 3, 711-717	28.4	90
28	Enhancing and controlling valley magnetic response in MoS/WS heterostructures by all-optical route. *Nature Communications*, **2019**, 10, 4226	17.4	20
27	Strongly distinct electrical response between circular and valley polarization in bilayer transition metal dichalcogenides. *Physical Review B*, **2019**, 99,	3.3	10
26	Strong and tunable interlayer coupling of infrared-active phonons to excitons in van der Waals heterostructures. *Physical Review B*, **2019**, 99,	3.3	6
25	Boundary activated hydrogen evolution reaction on monolayer MoS. *Nature Communications*, **2019**, 10, 1348	17.4	168
24	Nonvolatile Memory: New Floating Gate Memory with Excellent Retention Characteristics (Adv. Electron. Mater. 4/2019). *Advanced Electronic Materials*, **2019**, 5, 1970018	6.4	3
23	Pressure-mediated contact quality improvement between monolayer MoS 2 and graphite. *Chinese Physics B*, **2019**, 28, 017301	1.2	2
22	Band evolution of two-dimensional transition metal dichalcogenides under electric fields. *Applied Physics Letters*, **2019**, 115, 083104	3.4	4
21	Robust circular polarization of indirect Q-K transitions in bilayer 3R□WS2. *Physical Review B*, **2019**, 100,	3.3	7
20	Lattice Dynamics, Phonon Chirality, and Spin□Phonon Coupling in 2D Itinerant Ferromagnet Fe3GeTe2. *Advanced Functional Materials*, **2019**, 29, 1904734	15.6	33
19	Giant Valley Coherence at Room Temperature in 3R WS with Broken Inversion Symmetry. *Research*, **2019**, 2019, 6494565	7.8	7
18	2D proximate quantum spin liquid state in atomic-thin □RuCl 3. *2D Materials*, **2019**, 6, 015014	5.9	16
17	New Floating Gate Memory with Excellent Retention Characteristics. *Advanced Electronic Materials*, **2019**, 5, 1800726	6.4	25
16	Temperature-driven evolution of critical points, interlayer coupling, and layer polarization in bilayer MoS2. *Physical Review B*, **2018**, 97,	3.3	18
15	Robust spin-valley polarization in commensurate MoS2/graphene heterostructures. *Physical Review B*, **2018**, 97,	3.3	20
14	Twist angle-dependent conductivities across MoS/graphene heterojunctions. *Nature Communications*, **2018**, 9, 4068	17.4	59
13	Electronic structure-dependent magneto-optical Raman effect in atomically thin WS 2. *2D Materials* , **2018**, 5, 035028	5.9	9
12	Strongly enhanced exciton-phonon coupling in two-dimensional WSe2. *Physical Review B*, **2018**, 97,	3.3	21

11	Precisely Aligned Monolayer MoS Epitaxially Grown on h-BN basal Plane. *Small*, **2017**, 13, 1603005	11	73
10	Argon Plasma Induced Phase Transition in Monolayer MoS. *Journal of the American Chemical Society* , **2017**, 139, 10216-10219	16.4	234
9	Graphene-Contacted Ultrashort Channel Monolayer MoS Transistors. *Advanced Materials*, **2017**, 29, 1702522	24	144
8	A facile and efficient dry transfer technique for two-dimensional Van derWaals heterostructure. *Chinese Physics B*, **2017**, 26, 087306	1.2	7
7	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS Continuous Films. *ACS Nano*, **2017**, 11, 12001-12007	16.7	264
6	Study of graphene plasmons in graphene-MoS heterostructures for optoelectronic integrated devices. *Nanoscale*, **2017**, 9, 208-215	7.7	30
5	Modulating PL and electronic structures of MoS2/graphene heterostructures via interlayer twisting angle. *Applied Physics Letters*, **2017**, 111, 263106	3.4	31
4	The Effect of Twin Grain Boundary Tuned by Temperature on the Electrical Transport Properties of Monolayer MoS2. *Crystals*, **2016**, 6, 115	2.3	15
3	Rolling Up a Monolayer MoS2 Sheet. *Small*, **2016**, 12, 3770-4	11	39
2	Highly dispersive {001} facets-exposed nanocrystalline TiO2 on high quality graphene as a high performance photocatalyst. *Journal of Materials Chemistry*, **2012**, 22, 7484		134
1	Rail-to-Rail MoS2 Inverters. *ACS Applied Electronic Materials*,	4	