Tianmeng Wang

List of Publications by Year
in descending order

28	1,201	430442	476904
papers	citations	18 h-index	29 g-index

29	29	29	1818
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revealing the biexciton and trion-exciton complexes in BN encapsulated WSe2. Nature Communications, 2018, 9, 3719.	5.8	175
2	Correlated insulating states at fractional fillings of the WS2/WSe2 moirÃ© lattice. Nature Physics, 2021, 17, 715-719.	6.5	157
3	Emerging photoluminescence from the dark-exciton phonon replica in monolayer WSe2. Nature Communications, 2019, 10, 2469.	5.8	102
4	Vanadium disulfide flakes with nanolayered titanium disulfide coating as cathode materials in lithium-ion batteries. Nature Communications, 2019, 10, 1764.	5.8	73
5	Giant Valley-Zeeman Splitting from Spin-Singlet and Spin-Triplet Interlayer Excitons in WSe₂/MoSe₂ Heterostructure. Nano Letters, 2020, 20, 694-700.	4.5	70
6	Momentum-Dark Intervalley Exciton in Monolayer Tungsten Diselenide Brightened via Chiral Phonon. ACS Nano, 2019, 13, 14107-14113.	7.3	63
7	Strong interaction between interlayer excitons and correlated electrons in WSe2/WS2 moirÃ© superlattice. Nature Communications, 2021, 12, 3608.	5.8	63
8	Direct Observation of Gate-Tunable Dark Trions in Monolayer WSe₂. Nano Letters, 2019, 19, 6886-6893.	4.5	60
9	Metasurface Integrated Monolayer Exciton Polariton. Nano Letters, 2020, 20, 5292-5300.	4.5	44
10	A two-step dry process for Cs₂SnI₆ perovskite thin film. Materials Research Letters, 2017, 5, 540-546.	4.1	40
11	Electrical switching between exciton dissociation to exciton funneling in MoSe2/WS2 heterostructure. Nature Communications, 2020, 11, 2640.	5.8	38
12	Theoretical and Experimental Insight into the Mechanism for Spontaneous Vertical Growth of ReS 2 Nanosheets. Advanced Functional Materials, 2018, 28, 1801286.	7.8	35
13	Enhanced Light Emission from the Ridge of Two-Dimensional InSe Flakes. Nano Letters, 2018, 18, 5078-5084.	4.5	35
14	Catalystâ€Free and Morphologyâ€Controlled Growth of 2D Perovskite Nanowires for Polarized Light Detection. Advanced Optical Materials, 2019, 7, 1900039.	3.6	35
15	A high performance UVâ€“visible dual-band photodetector based on an inorganic Cs₂SnI₆ perovskite/ZnO heterojunction structure. Journal of Materials Chemistry C, 2020, 8, 1819-1825.	2.7	29
16	Fine structures of valley-polarized excitonic states in monolayer transitional metal dichalcogenides. Nanophotonics, 2020, 9, 1811-1829.	2.9	27
17	Excitonic Complexes and Emerging Interlayer Electronâ€“Phonon Coupling in BN Encapsulated Monolayer Semiconductor Alloy: WS0.6Se1.4. Nano Letters, 2019, 19, 299-307.	4.5	20
18	Observation of Quantized Exciton Energies in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> under a Strong Magnetic Field. Physical Review X, 2020, 10, .	2.8	20

#	Article	IF	Citations
19	Communicating Two States in Perovskite Revealed by Time-Resolved Photoluminescence Spectroscopy. Scientific Reports, 2018, 8, 16482.	1.6	18
20	Burn-related Collagen Conformational Changes in ex vivo Porcine Skin using Raman Spectroscopy. Scientific Reports, 2019, 9, 19138.	1.6	18
21	Giant Valley-Polarized Rydberg Excitons in Monolayer WSe₂ Revealed by Magneto-photocurrent Spectroscopy. Nano Letters, 2020, 20, 7635-7641.	4.5	16
22	Phonon-exciton Interactions in WSe2 under a quantizing magnetic field. Nature Communications, 2020, 11, 3104.	5.8	15
23	Large Metallic Vanadium Disulfide Ultrathin Flakes for Spintronic Circuits and Quantum Computing Devices. ACS Applied Nano Materials, 2019, 2, 3684-3694.	2.4	14
24	Anisotropic band structure of TiS3 nanoribbon revealed by polarized photocurrent spectroscopy. Applied Physics Letters, 2020, 117, .	1.5	8
25	Cryogenic characteristics of GaAs-based near-infrared light emitting diodes. Semiconductor Science and Technology, 2020, 35, 035021.	1.0	7
26	Orientation-Controlled Large-Area Epitaxial PbI2 Thin Films with Tunable Optical Properties. ACS Applied Materials & Interfaces, 2021, 13, 32450-32460.	4.0	6
27	Raman spectroscopy accurately classifies burn severity in an ex vivo model. Burns, 2021, 47, 812-820.	1.1	3
28	Reversible engineering of topological insulator surface state conductivity through optical excitation. Nanotechnology, 2021, 32, 17LT01.	1.3	3