Weijie Zhao

List of Publications by Year
in descending order

44 papers	10,809 citations	147566 31 h-index	243296 44 g-index
44 all docs	44 docs citations	44 times ranked	15566 citing authors

#	Article	IF	Citations
1	Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. Nature, 2018, 562, 245-248.	13.7	2,589
2	Evolution of Electronic Structure in Atomically Thin Sheets of WS₂ and WSe₂. ACS Nano, 2013, 7, 791-797.	7.3	1,690
3	Lattice dynamics in mono- and few-layer sheets of WS2 and WSe2. Nanoscale, 2013, 5, 9677.	2.8	724
4	The shear mode of multilayer graphene. Nature Materials, 2012, 11, 294-300.	13.3	568
5	Color-stable highly luminescent sky-blue perovskite light-emitting diodes. Nature Communications, 2018, 9, 3541.	5.8	536
6	Origin of Indirect Optical Transitions in Few-Layer MoS₂, WS₂, and WSe₂. Nano Letters, 2013, 13, 5627-5634.	4.5	435
7	Transport Properties of Monolayer MoS₂ Grown by Chemical Vapor Deposition. Nano Letters, 2014, 14, 1909-1913.	4.5	431
8	Photocarrier relaxation pathway in two-dimensional semiconducting transition metal dichalcogenides. Nature Communications, 2014, 5, 4543.	5.8	372
9	Halide-assisted atmospheric pressure growth of large WSe2 and WS2 monolayer crystals. Applied Materials Today, 2015, 1, 60-66.	2.3	372
10	Vapourâ€“liquidâ€“solid growth of monolayer MoS2 nanoribbons. Nature Materials, 2018, 17, 535-542.	13.3	286
11	Recent Progress on Two-Dimensional Materials. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2021, .	2.2	269
12	Giant photoluminescence enhancement in tungsten-diselenideâ€“gold plasmonic hybrid structures. Nature Communications, 2016, 7, 11283.	5.8	244
13	Intercalation of Few-Layer Graphite Flakes with FeCl₃: Raman Determination of Fermi Level, Layer by Layer Decoupling, and Stability. Journal of the American Chemical Society, 2011, 133, 5941-5946.	6.6	239
14	Nonlinear photoluminescence in atomically thin layered<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> from diffusion-assisted exciton-exciton annihilation. Physical Review B, 2014, 90, .	3.7	234
15	Correlated fluorescence blinking in two-dimensional semiconductor heterostructures. Nature, 2017, 541, 62-67.	13.7	158
16	Electronic Structure and Optical Signatures of Semiconducting Transition Metal Dichalcogenide Nanosheets. Accounts of Chemical Research, 2015, 48, 91-99.	7.6	149
17	An innovative way of etching MoS2: Characterization and mechanistic investigation. Nano Research, 2013, 6, 200-207.	5.8	140
18	Photoelectrochemical properties of chemically exfoliated MoS2. Journal of Materials Chemistry A, 2013, 1, 8935.	5.2	137

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19	Reconfiguring crystal and electronic structures of MoS2 by substitutional doping. Nature Communications, 2018, 9, 199.	5.8	128
20	Engineering Bandgaps of Monolayer MoS₂ and WS₂ on Fluoropolymer Substrates by Electrostatically Tuned Manyâ€Body Effects. Advanced Materials, 2016, 28, 6457-6464.	11.1	116
21	Excitonâ€“Plasmon Coupling and Electromagnetically Induced Transparency in Monolayer Semiconductors Hybridized with Ag Nanoparticles. Advanced Materials, 2016, 28, 2709-2715.	11.1	115
22	Room temperature long-range coherent exciton polariton condensate flow in lead halide perovskites. Science Advances, 2018, 4, eaau0244.	4.7	111
23	Charge transfer and optical phonon mixing in few-layer graphene chemically doped with sulfuric acid. Physical Review B, 2010, 82, .	1.1	87
24	Heterointerface Screening Effects between Organic Monolayers and Monolayer Transition Metal Dichalcogenides. ACS Nano, 2016, 10, 2476-2484.	7.3	87
25	Efficient Carrier-to-Exciton Conversion in Field Emission Tunnel Diodes Based on MIS-Type van der Waals Heterostack. Nano Letters, 2017, 17, 5156-5162.	4.5	71
26	Effect of oxygen and ozone on p-type doping of ultra-thin WSe₂ and MoSe₂ field effect transistors. Physical Chemistry Chemical Physics, 2016, 18, 4304-4309.	1.3	68
27	Ultralow Threshold Polariton Condensate in a Monolayer Semiconductor Microcavity at Room Temperature. Nano Letters, 2021, 21, 3331-3339.	4.5	66
28	Plasmonic Hot Carriers-Controlled Second Harmonic Generation in WSe₂ Bilayers. Nano Letters, 2018, 18, 1686-1692.	4.5	64
29	Ultrafast Modulation of Excitonâ€“Plasmon Coupling in a Monolayer WS₂â€“Ag Nanodisk Hybrid System. ACS Photonics, 2019, 6, 2832-2840.	3.2	52
30	Manipulating Charge and Energy Transfer between 2D Atomic Layers via Heterostructure Engineering. Nano Letters, 2020, 20, 5359-5366.	4.5	51
31	Determination of Crystal Axes in Semimetallic Tâ€²â€MoTe₂ by Polarized Raman Spectroscopy. Advanced Functional Materials, 2017, 27, 1604799.	7.8	47
32	Gateâ€Tunable Resonant Raman Spectroscopy of Bilayer MoS₂. Small, 2017, 13, 1701039.	5.2	32
33	Transient circular dichroism and exciton spin dynamics in all-inorganic halide perovskites. Nature Communications, 2020, 11, 5665.	5.8	29
34	Trion-Mediated FÃ¶rster Resonance Energy Transfer and Optical Gating Effect in WS₂/hBN/MoSe₂ Heterojunction. ACS Nano, 2020, 14, 13470-13477.	7.3	29
35	Ultralow-frequency shear modes of 2-4 layer graphene observed in scroll structures at edges. Physical Review B, 2014, 89, .	1.1	28
36	Dynamics of exciton energy renormalization in monolayer transition metal disulfides. Nano Research, 2020, 13, 1399-1405.	5.8	27

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37	Raman study of ultrathin Fe₃O₄ films on GaAs(001) substrate: stoichiometry, epitaxial orientation and strain. Journal of Raman Spectroscopy, 2011, 42, 1388-1391.	1.2	17
38	Enhanced Plasmonic Hot-Carrier Transfer in Au/WS₂ Heterojunctions under Nonequilibrium Condition. ACS Photonics, 2022, 9, 1522-1528.	3.2	9
39	Spectroscopic Perception of Trap States on the Performance of Methylammonium and Formamidinium Lead Iodide Perovskite Solar Cells. Advanced Materials, 2021, 33, 2102241.	11.1	7
40	Correlated Dynamics of Free and Selfâ€Trapped Excitons and Broadband Photodetection in BEA₂PbBr₄ Layered Crystals. Advanced Optical Materials, 2022, 10, .	3.6	5
41	Activation of CdSe Quantum Dots after Exposure to Polysulfide. Journal of Physical Chemistry C, 2014, 118, 14555-14561.	1.5	3
42	Potassium Iodide Doping Strategy for High-Efficiency Perovskite Solar Cells Revealed by Ultrafast Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 711-717.	2.1	3
43	Nanoscale interfaces made easily. Nature, 2018, 553, 32-34.	13.7	2
44	Raman spectra of monoand bi-layer graphenes with ion-induced defects-and its dispersive frequency on the excitation energy. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 137801.	0.2	2