

Weijie Zhao

List of Publications by Year in descending order

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44
papers

10,809
citations

147566

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docs citations

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times ranked

15566
citing authors

#	ARTICLE	IF	CITATIONS
1	Potassium Iodide Doping Strategy for High-Efficiency Perovskite Solar Cells Revealed by Ultrafast Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 711-717.	2.1	3
2	Correlated Dynamics of Free and Self-Trapped Excitons and Broadband Photodetection in $\text{BEA}_{2-x}\text{PbBr}_{4-x}$ Layered Crystals. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	5
3	Enhanced Plasmonic Hot-Carrier Transfer in Au/WS_2 Heterojunctions under Nonequilibrium Condition. <i>ACS Photonics</i> , 2022, 9, 1522-1528.	3.2	9
4	Ultralow Threshold Polariton Condensate in a Monolayer Semiconductor Microcavity at Room Temperature. <i>Nano Letters</i> , 2021, 21, 3331-3339.	4.5	66
5	Spectroscopic Perception of Trap States on the Performance of Methylammonium and Formamidinium Lead Iodide Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, 2102241.	11.1	7
6	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2021, .	2.2	269
7	Transient circular dichroism and exciton spin dynamics in all-inorganic halide perovskites. <i>Nature Communications</i> , 2020, 11, 5665.	5.8	29
8	Trion-Mediated Förster Resonance Energy Transfer and Optical Gating Effect in $\text{WS}_2/\text{hBN}/\text{MoSe}_2$ Heterojunction. <i>ACS Nano</i> , 2020, 14, 13470-13477.	7.3	29
9	Manipulating Charge and Energy Transfer between 2D Atomic Layers via Heterostructure Engineering. <i>Nano Letters</i> , 2020, 20, 5359-5366.	4.5	51
10	Dynamics of exciton energy renormalization in monolayer transition metal disulfides. <i>Nano Research</i> , 2020, 13, 1399-1405.	5.8	27
11	Ultrafast Modulation of Exciton-Plasmon Coupling in a Monolayer WS_2/Ag Nanodisk Hybrid System. <i>ACS Photonics</i> , 2019, 6, 2832-2840.	3.2	52
12	Vapour-liquid-solid growth of monolayer MoS_2 nanoribbons. <i>Nature Materials</i> , 2018, 17, 535-542.	13.3	286
13	Plasmonic Hot Carriers-Controlled Second Harmonic Generation in WSe_2 Bilayers. <i>Nano Letters</i> , 2018, 18, 1686-1692.	4.5	64
14	Reconfiguring crystal and electronic structures of MoS_2 by substitutional doping. <i>Nature Communications</i> , 2018, 9, 199.	5.8	128
15	Perovskite light-emitting diodes with external quantum efficiency exceeding 20 per cent. <i>Nature</i> , 2018, 562, 245-248.	13.7	2,589
16	Room temperature long-range coherent exciton polariton condensate flow in lead halide perovskites. <i>Science Advances</i> , 2018, 4, eaau0244.	4.7	111
17	Color-stable highly luminescent sky-blue perovskite light-emitting diodes. <i>Nature Communications</i> , 2018, 9, 3541.	5.8	536
18	Nanoscale interfaces made easily. <i>Nature</i> , 2018, 553, 32-34.	13.7	2

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19	Determination of Crystal Axes in Semimetallic $Ta^{2+}MoTe_2$ by Polarized Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2017, 27, 1604799.	7.8	47
20	Correlated fluorescence blinking in two-dimensional semiconductor heterostructures. <i>Nature</i> , 2017, 541, 62-67.	13.7	158
21	Efficient Carrier-to-Exciton Conversion in Field Emission Tunnel Diodes Based on MIS-Type van der Waals Heterostack. <i>Nano Letters</i> , 2017, 17, 5156-5162.	4.5	71
22	Gate-Tunable Resonant Raman Spectroscopy of Bilayer MoS_2 . <i>Small</i> , 2017, 13, 1701039.	5.2	32
23	Giant photoluminescence enhancement in tungsten-diselenide-gold plasmonic hybrid structures. <i>Nature Communications</i> , 2016, 7, 11283.	5.8	244
24	Exciton-Plasmon Coupling and Electromagnetically Induced Transparency in Monolayer Semiconductors Hybridized with Ag Nanoparticles. <i>Advanced Materials</i> , 2016, 28, 2709-2715.	11.1	115
25	Engineering Bandgaps of Monolayer MoS_2 and WS_2 on Fluoropolymer Substrates by Electrostatically Tuned Many-Body Effects. <i>Advanced Materials</i> , 2016, 28, 6457-6464.	11.1	116
26	Effect of oxygen and ozone on p-type doping of ultra-thin WSe_2 and $MoSe_2$ field effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4304-4309.	1.3	68
27	Heterointerface Screening Effects between Organic Monolayers and Monolayer Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2016, 10, 2476-2484.	7.3	87
28	Halide-assisted atmospheric pressure growth of large WSe_2 and WS_2 monolayer crystals. <i>Applied Materials Today</i> , 2015, 1, 60-66.	2.3	372
29	Electronic Structure and Optical Signatures of Semiconducting Transition Metal Dichalcogenide Nanosheets. <i>Accounts of Chemical Research</i> , 2015, 48, 91-99.	7.6	149
30	Ultralow-frequency shear modes of 2-4 layer graphene observed in scroll structures at edges. <i>Physical Review B</i> , 2014, 89, .	1.1	28
31	Nonlinear photoluminescence in atomically thin layered WSe_2 from diffusion-assisted exciton-exciton annihilation. <i>Physical Review B</i> , 2014, 90, .	1.1	28
32	Photocarrier relaxation pathway in two-dimensional semiconducting transition metal dichalcogenides. <i>Nature Communications</i> , 2014, 5, 4543.	5.8	372
33	Activation of CdSe Quantum Dots after Exposure to Polysulfide. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14555-14561.	1.5	3
34	Transport Properties of Monolayer MoS_2 Grown by Chemical Vapor Deposition. <i>Nano Letters</i> , 2014, 14, 1909-1913.	4.5	431
35	Photoelectrochemical properties of chemically exfoliated MoS_2 . <i>Journal of Materials Chemistry A</i> , 2013, 1, 8935.	5.2	137
36	Origin of Indirect Optical Transitions in Few-Layer MoS_2 , WS_2 , and WSe_2 . <i>Nano Letters</i> , 2013, 13, 5627-5634.	4.5	435

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37	Lattice dynamics in mono- and few-layer sheets of WS ₂ and WSe ₂ . <i>Nanoscale</i> , 2013, 5, 9677.	2.8	724
38	Evolution of Electronic Structure in Atomically Thin Sheets of WS ₂ and WSe ₂ . <i>ACS Nano</i> , 2013, 7, 791-797.	7.3	1,690
39	An innovative way of etching MoS ₂ : Characterization and mechanistic investigation. <i>Nano Research</i> , 2013, 6, 200-207.	5.8	140
40	Raman spectra of mono and bi-layer graphenes with ion-induced defects and its dispersive frequency on the excitation energy. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013, 62, 137801.	0.2	2
41	The shear mode of multilayer graphene. <i>Nature Materials</i> , 2012, 11, 294-300.	13.3	568
42	Intercalation of Few-Layer Graphite Flakes with FeCl ₃ : Raman Determination of Fermi Level, Layer by Layer Decoupling, and Stability. <i>Journal of the American Chemical Society</i> , 2011, 133, 5941-5946.	6.6	239
43	Raman study of ultrathin Fe ₃ O ₄ films on GaAs(001) substrate: stoichiometry, epitaxial orientation and strain. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1388-1391.	1.2	17
44	Charge transfer and optical phonon mixing in few-layer graphene chemically doped with sulfuric acid. <i>Physical Review B</i> , 2010, 82, .	1.1	87