

# Ziyu Wang

## List of Publications by Year in descending order

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43  
papers

3,557  
citations

218677

26  
h-index

276875

41  
g-index

46  
all docs

46  
docs citations

46  
times ranked

6198  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extremely Anisotropic Thermoelectric Properties of SnSe Under Pressure. Energy and Environmental Materials, 2023, 6, .	12.8	8
2	3D Printing of Nacre-Inspired Structures with Exceptional Mechanical and Flame-Retardant Properties. Research, 2022, 2022, 9840574.	5.7	18
3	Strong Anisotropy and Bipolar Conduction-Dominated Thermoelectric Transport Properties in the Polycrystalline Topological Phase of ZrTe <sub>5</sub> . Inorganic Chemistry, 2021, 60, 8890-8897.	4.0	4
4	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
5	Thermoelectric Properties of Strained $\hat{\Gamma}^2$ -Cu <sub>2</sub> Se. ACS Applied Materials & Interfaces, 2021, 13, 34367-34373.	8.0	20
6	Self-healing: A new skill unlocked for ultrasound transducer. Nano Energy, 2020, 68, 104348.	16.0	22
7	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. Light: Science and Applications, 2020, 9, 137.	16.6	65
8	Metafluids beyond the Bulk Modulus. Physical Review Letters, 2020, 125, 185502.	7.8	4
9	Stretchable Nanolayered Thermoelectric Energy Harvester on Complex and Dynamic Surfaces. Nano Letters, 2020, 20, 4445-4453.	9.1	106
10	Flat Lenses Based on 2D Perovskite Nanosheets. Advanced Materials, 2020, 32, e2001388.	21.0	26
11	Interface engineering in CeO <sub>2</sub> (1 1 1) facets decorated with CdSe quantum dots for photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2020, 579, 707-713.	9.4	41
12	Enhanced photoresponse behavior of Au@Bi <sub>2</sub> Te <sub>3</sub> based photoelectrochemical-type photodetector at solid-solid-liquid joint interface. Materials Today Energy, 2020, 16, 100401.	4.7	17
13	Role of lone pair electrons in n-type thermoelectric properties of tin oxides <sup>**</sup> . Journal of Physics Condensed Matter, 2020, 33, 065504.	1.8	1
14	Synergistical Tuning Interface Barrier and Phonon Propagation in Au@Sb <sub>2</sub> Te <sub>3</sub> Nanoplate for Boosting Thermoelectric Performance. Journal of Physical Chemistry Letters, 2019, 10, 4903-4909.	4.6	26
15	Highly stable hybrid perovskite light-emitting diodes based on Dion-Jacobson structure. Science Advances, 2019, 5, eaaw8072.	10.3	188
16	Silver Nanoparticle Modified Polyimide for Multiple Artificial Skin Sensing Applications. Advanced Materials Technologies, 2019, 4, 1900426.	5.8	32
17	Fabrication of bismuth titanate nanosheets with tunable crystal facets for photocatalytic degradation of antibiotic. Journal of Materials Science, 2019, 54, 13740-13752.	3.7	35
18	One-pot nitridation route synthesis of SrTaO <sub>2</sub> N/Ta <sub>3</sub> N <sub>5</sub> type II heterostructure with enhanced visible-light photocatalytic activity. Journal of Colloid and Interface Science, 2019, 554, 74-79.	9.4	19

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19	Ultralow thermal conductivity and high thermoelectric performance of Cu <sub>2</sub> Se/TiO <sub>2</sub> nanocomposite. Applied Physics Letters, 2019, 115, .	3.3	18
20	Capillary-bridge mediated assembly of aligned perovskite quantum dots for high-performance photodetectors. Journal of Materials Chemistry C, 2019, 7, 5954-5961.	5.5	41
21	Improvement of the thermoelectric properties of a MoO <sub>3</sub> monolayer through oxygen vacancies. Beilstein Journal of Nanotechnology, 2019, 10, 2031-2038.	2.8	7
22	Superscattering of Sound by a Deep-Subwavelength Solid Mazelike Rod. Physical Review Applied, 2019, 12, .	3.8	10
23	Synergetic utilization of photoabsorption and surface facet in crystalline/amorphous contacted BiOCl-Bi <sub>2</sub> S <sub>3</sub> composite for photocatalytic degradation. Journal of Alloys and Compounds, 2019, 780, 907-916.	5.5	46
24	Construction of porous N-doped graphene layer for efficient oxygen reduction reaction. Chemical Engineering Science, 2019, 194, 36-44.	3.8	34
25	Strong Depletion in Hybrid Perovskite p-n Junctions Induced by Local Electronic Doping. Advanced Materials, 2018, 30, e1705792.	21.0	141
26	Reliable Synthesis of Large-Area Monolayer WS <sub>2</sub> Single Crystals, Films, and Heterostructures with Extraordinary Photoluminescence Induced by Water Intercalation. Advanced Optical Materials, 2018, 6, 1701347.	7.3	28
27	Dramatically improving thermoelectric performance of topological half-Heusler compound LuPtSb <i>via</i> hydrostatic pressure. Journal of Materials Chemistry A, 2018, 6, 20069-20075.	10.3	31
28	Role of Surface Recombination in Halide Perovskite Nanoplatelets. ACS Applied Materials & Interfaces, 2018, 10, 31586-31593.	8.0	41
29	Back-contact perovskite solar cells with honeycomb-like charge collecting electrodes. Nano Energy, 2018, 50, 710-716.	16.0	44
30	Degradation of Two-Dimensional CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite and CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /Graphene Heterostructure. ACS Applied Materials & Interfaces, 2018, 10, 24258-24265.	8.0	40
31	Controlled Growth of Monocrystalline Organo-Lead Halide Perovskite and Its Application in Photonic Devices. Angewandte Chemie - International Edition, 2017, 56, 12486-12491.	13.8	54
32	Controlled Growth of Monocrystalline Organo-Lead Halide Perovskite and Its Application in Photonic Devices. Angewandte Chemie, 2017, 129, 12660-12665.	2.0	10
33	Titelbild: Controlled Growth of Monocrystalline Organo-Lead Halide Perovskite and Its Application in Photonic Devices (Angew. Chem. 41/2017). Angewandte Chemie, 2017, 129, 12547-12547.	2.0	0
34	Phase Segregation Enhanced Ion Movement in Efficient Inorganic CsPbI <sub>2</sub> Solar Cells. Advanced Energy Materials, 2017, 7, 1700946.	19.5	318
35	Reversible Structural Swell-Shrink and Recoverable Optical Properties in Hybrid Inorganic-Organic Perovskite. ACS Nano, 2016, 10, 7031-7038.	14.6	68
36	Synthesis, properties, and optical applications of low-dimensional perovskites. Chemical Communications, 2016, 52, 13637-13655.	4.1	252

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37	Atomically thin lateral p-n junction photodetector with large effective detection area. 2D Materials, 2016, 3, 041001.	4.4	78
38	Strain Relaxation of Monolayer WS <sub>2</sub> on Plastic Substrate. Advanced Functional Materials, 2016, 26, 8707-8714.	14.9	97
39	Scalable Production of a Few-Layer MoS <sub>2</sub> /WS <sub>2</sub> Vertical Heterojunction Array and Its Application for Photodetectors. ACS Nano, 2016, 10, 573-580.	14.6	362
40	Two-Dimensional CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite: Synthesis and Optoelectronic Application. ACS Nano, 2016, 10, 3536-3542.	14.6	359
41	Wavelength-tunable waveguides based on polycrystalline organic-inorganic perovskite microwires. Nanoscale, 2016, 8, 6258-6264.	5.6	76
42	Growth of nano-textured graphene coatings across highly porous stainless steel supports towards corrosion resistant coatings. Carbon, 2015, 87, 395-408.	10.3	65
43	Revealing the Relationship between Design and Performance of Back-Contact Perovskite Solar Cells with Honeycomb Charge Collecting Electrode. , 0, , .		0