

# Weichang Zhou

## List of Publications by Year in descending order

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46  
papers

1,520  
citations

394421

19  
h-index

302126

39  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1944  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of hydrogen-ion storage performance of tungsten trioxide nanowires by niobium doping. Nanotechnology, 2022, 33, 105403.	2.6	3
2	Emission enhancement and exciton species modulation in monolayer WS <sub>2</sub> via decoration of CdTe quantum dots. Applied Physics Letters, 2022, 120, 261105.	3.3	0
3	Boosting triplet self-trapped exciton emission in Te(IV)-doped Cs <sub>2</sub> SnCl <sub>6</sub> perovskite variants. Nano Research, 2021, 14, 1551-1558.	10.4	127
4	Photoluminescence and Boosting Electron-Phonon Coupling in CdS Nanowires with Variable Sn(IV) Dopant Concentration. Nanoscale Research Letters, 2021, 16, 19.	5.7	2
5	Controlled Structural Transformation in Sb-Doped Indium Halides A <sub>3</sub> InCl <sub>6</sub> and A <sub>2</sub> InCl <sub>5</sub> ™H <sub>2</sub> O Yields Reversible Green-to-Yellow Emission Switch. Advanced Optical Materials, 2021, 9, 2002267.	7.3	55
6	High-performance near-infrared photodetector based on quasi one-dimensional layered (TaSe <sub>4</sub> ) <sub>2</sub> I. Applied Physics Letters, 2021, 119, .	3.3	8
7	Homo- and Heterovalent Doping-Mediated Self-Trapped Exciton Emission and Energy Transfer in Mn-Doped Cs <sub>2</sub> NaAgBiCl <sub>6</sub> Double Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 340-348.	4.6	104
8	Wide spectrum multi-sub-band modulation of excitons and defect state emission simultaneously in surface oxidized CdS micro/nano-wires. AIP Advances, 2020, 10, 125213.	1.3	0
9	Stable green and red dual-color emission in all-inorganic halide-mixed perovskite single microsheets. RSC Advances, 2020, 10, 18368-18376.	3.6	2
10	Ultrafast hydrogen-ion storage in MoO <sub>3</sub> nanoribbons. Solid State Ionics, 2020, 353, 115380.	2.7	17
11	Highly Robust Non-Noble Alkaline Hydrogen-Evolving Electrocatalyst from Se-Doped Molybdenum Disulfide Particles on Interwoven CoSe <sub>2</sub> Nanowire Arrays. Small, 2020, 16, e1906629.	10.0	70
12	Highly Efficient Blue Emission from Self-Trapped Excitons in Stable Sb <sup>3+</sup> -Doped Cs <sub>2</sub> NaInCl <sub>6</sub> Double Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 2053-2061.	4.6	259
13	Color-Tunable Photoluminescence and Whispering Gallery Mode Lasing of Alloyed CsPbCl <sub>3</sub> (1-x)Br <sub>3</sub> x Microstructures. Advanced Materials Interfaces, 2020, 7, 1902126.	3.7	5
14	Branched TiO <sub>2</sub> Nanorod Arrays Decorated with Au Nanostructure for Plasmon-Enhanced Photoelectrochemical Water Splitting. Journal of the Electrochemical Society, 2020, 167, 026509.	2.9	15
15	Effect of hydrogen ions in the adsorbed water layer on the resistive switching properties of hexagonal WO <sub>3</sub> nanowire. Journal of Applied Physics, 2019, 126, 054303.	2.5	5
16	Positive and Negative Photoconductivity Conversion Induced by H <sub>2</sub> O Molecule Adsorption in WO <sub>3</sub> Nanowire. Nanoscale Research Letters, 2019, 14, 144.	5.7	14
17	Strong temperature-strain coupling in the interface of Sb thin film on flexible PDMS substrate. Applied Physics Letters, 2019, 115, .	3.3	3
18	Simultaneous Triplet Exciton-Phonon and Exciton-Photon Photoluminescence in the Individual Weak Confinement CsPbBr <sub>3</sub> Micro/Nanowires. Journal of Physical Chemistry C, 2019, 123, 25349-25358.	3.1	47

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19	Raman investigation of layered ZrGeTe <sub>4</sub> semiconductor. Applied Physics Letters, 2019, 114, .	3.3	17
20	1D ZnSSe/ZnSe Axial Heterostructure and its Application for Photodetectors. Advanced Electronic Materials, 2019, 5, 1800770.	5.1	16
21	In-Plane Anisotropic Raman Response and Electrical Conductivity with Robust Electron-Photon and Electron-Phonon Interactions of Air Stable MoO <sub>2</sub> Nanosheets. Journal of Physical Chemistry Letters, 2019, 10, 2182-2190.	4.6	28
22	TiO <sub>2</sub> Nanosheet Arrays with Layered SnS <sub>2</sub> and CoO <sub>x</sub> Nanoparticles for Efficient Photoelectrochemical Water Splitting. Nanoscale Research Letters, 2019, 14, 342.	5.7	18
23	Amorphous Co-Pi anchored on CdSe/TiO <sub>2</sub> nanowire arrays for efficient photoelectrochemical hydrogen production. Journal of Materials Science, 2019, 54, 3284-3293.	3.7	16
24	Tin-Assisted Sb <sub>2</sub> S <sub>3</sub> Nanoparticles Uniformly Grafted on Graphene Effectively Improves Sodium-Ion Storage Performance. ChemElectroChem, 2018, 5, 811-816.	3.4	33
25	Temperature dependent Raman of BiTe nanotubes. AIP Advances, 2018, 8, .	1.3	7
26	Temperature-Dependent Raman Scattering of Large Size Hexagonal Bi <sub>2</sub> Se <sub>3</sub> Single-Crystal Nanoplates. Applied Sciences (Switzerland), 2018, 8, 1794.	2.5	19
27	Anomalous Temperature-Dependent Raman Scattering of Vapor-Deposited Two-Dimensional Bi Thin Films. Journal of Physical Chemistry C, 2018, 122, 24459-24466.	3.1	22
28	Surface polarons and optical micro-cavity modulated broad range multi-mode emission of Te-doped CdS nanowires. Nanotechnology, 2018, 29, 465709.	2.6	17
29	Spin-exciton interaction and related micro-photoluminescence spectra of ZnSe:Mn DMS nanoribbon. Nanotechnology, 2017, 28, 105202.	2.6	29
30	Ultrathin MoO <sub>2</sub> nanosheets with good thermal stability and high conductivity. AIP Advances, 2017, 7, .	1.3	37
31	Cavity-Enhanced Microphotoluminescence in a Core-Shell p CdS/CdO Micrometer Wire and Its Efficient Surface Photovoltage Responses in the Whole Visible Range. Journal of Physical Chemistry C, 2017, 121, 14349-14358.	3.1	10
32	Modulating memristive performance of hexagonal WO <sub>3</sub> nanowire by water-oxidized hydrogen ion implantation. Scientific Reports, 2016, 6, 32712.	3.3	21
33	High-performance photodetectors based on bandgap engineered novel layer GaSe <sub>0.5</sub> Te <sub>0.5</sub> nanoflakes. RSC Advances, 2016, 6, 60862-60868.	3.6	15
34	Multi-layered MoS <sub>2</sub> phototransistors as high performance photovoltaic cells and self-powered photodetectors. RSC Advances, 2015, 5, 45239-45248.	3.6	27
35	Electrical characterization of H <sub>2</sub> S adsorption on hexagonal WO <sub>3</sub> nanowire at room temperature. Journal of Applied Physics, 2014, 116, 164310.	2.5	10
36	Broad spectral response photodetector based on individual tin-doped CdS nanowire. AIP Advances, 2014, 4, .	1.3	47

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37	Ultrahigh sensitivity and gain white light photodetector based on GaTe/Sn : CdS nanoflake/nanowire heterostructures. Nanotechnology, 2014, 25, 445202.	2.6	17
38	The effect of dopant and optical micro-cavity on the photoluminescence of Mn-doped ZnSe nanobelts. Nanoscale Research Letters, 2013, 8, 314.	5.7	12
39	Surface polarity induced three-dimensional wurtzite ZnS/ZnSxSe1~x nano-heterostructures with integrating emission property. CrystEngComm, 2013, 15, 9988.	2.6	3
40	Structure and optical properties of pure and doped ZnO 1D nanostructures. Materials Letters, 2013, 91, 369-371.	2.6	13
41	Synthesis and photoluminescence of pure and Mn doped CdS nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 47, 162-166.	2.7	19
42	Luminescence and local photonic confinement of single ZnSe:Mn nanostructure and the shape dependent lasing behavior. Nanotechnology, 2013, 24, 055201.	2.6	24
43	Reconfigurable resistive switching devices based on individual tungsten trioxide nanowires. AIP Advances, 2013, 3, .	1.3	17
44	Structure and Photoluminescence of Pure and Indium-Doped ZnTe Microstructures. Journal of Physical Chemistry C, 2011, 115, 1415-1421.	3.1	33
45	Continuous Alloy-Composition Spatial Grading and Superbroad Wavelength-Tunable Nanowire Lasers on a Single Chip. Nano Letters, 2009, 9, 784-788.	9.1	191
46	Bound Exciton and Optical Properties of SnO<sub>2</sub> One-Dimensional Nanostructures. Journal of Physical Chemistry C, 2009, 113, 1719-1726.	3.1	66