Weichang Zhou

List of Publications by Year
in descending order

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46	1,520	394421	302126
papers	citations	19 h-index	39 g-index

47	47	47	1944
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Efficient Blue Emission from Self-Trapped Excitons in Stable Sb³⁺-Doped Cs₂NaInCl₆ Double Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 2053-2061.	4.6	259
2	Continuous Alloy-Composition Spatial Grading and Superbroad Wavelength-Tunable Nanowire Lasers on a Single Chip. Nano Letters, 2009, 9, 784-788.	9.1	191
3	Boosting triplet self-trapped exciton emission in Te(IV)-doped Cs2SnCl6 perovskite variants. Nano Research, 2021, 14, 1551-1558.	10.4	127
4	Homo- and Heterovalent Doping-Mediated Self-Trapped Exciton Emission and Energy Transfer in Mn-Doped Cs₂Na_{1â€“x}Ag_xBiCl₆ Double Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 340-348.	4.6	104
5	Highly Robust Nonâ€Noble Alkaline Hydrogenâ€Evolving Electrocatalyst from Seâ€Doped Molybdenum Disulfide Particles on Interwoven CoSe₂ Nanowire Arrays. Small, 2020, 16, e1906629.	10.0	70
6	Bound Exciton and Optical Properties of SnO₂ One-Dimensional Nanostructures. Journal of Physical Chemistry C, 2009, 113, 1719-1726.	3.1	66
7	Controlled Structural Transformation in Sbâ€Doped Indium Halides A₃InCl₆ and A₂InCl₅â‹…H₂O Yields Reversible Greenâ€toâ€Yellow Emission Switch. Advanced Optical Materials, 2021, 9, 2002267.	7.3	55
8	Broad spectral response photodetector based on individual tin-doped CdS nanowire. AIP Advances, 2014, 4, .	1.3	47
9	Simultaneous Triplet Excitonâ€“Phonon and Excitonâ€“Photon Photoluminescence in the Individual Weak Confinement CsPbBr₃ Micro/Nanowires. Journal of Physical Chemistry C, 2019, 123, 25349-25358.	3.1	47
10	Ultrathin MoO2 nanosheets with good thermal stability and high conductivity. AIP Advances, 2017, 7, .	1.3	37
11	Structure and Photoluminescence of Pure and Indium-Doped ZnTe Microstructures. Journal of Physical Chemistry C, 2011, 115, 1415-1421.	3.1	33
12	Tinâ€Assisted Sb₂S₃ Nanoparticles Uniformly Grafted on Graphene Effectively Improves Sodiumâ€Ion Storage Performance. ChemElectroChem, 2018, 5, 811-816.	3.4	33
13	Spinâ€“exciton interaction and related micro-photoluminescence spectra of ZnSe:Mn DMS nanoribbon. Nanotechnology, 2017, 28, 105202.	2.6	29
14	In-Plane Anisotropic Raman Response and Electrical Conductivity with Robust Electronâ€“Photon and Electronâ€“Phonon Interactions of Air Stable MoO₂ Nanosheets. Journal of Physical Chemistry Letters, 2019, 10, 2182-2190.	4.6	28
15	Multi-layered MoS₂ phototransistors as high performance photovoltaic cells and self-powered photodetectors. RSC Advances, 2015, 5, 45239-45248.	3.6	27
16	Luminescence and local photonic confinement of single ZnSe:Mn nanostructure and the shape dependent lasing behavior. Nanotechnology, 2013, 24, 055201.	2.6	24
17	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
18	Modulating memristive performance of hexagonal WO3 nanowire by water-oxidized hydrogen ion implantation. Scientific Reports, 2016, 6, 32712.	3.3	21

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19	Synthesis and photoluminescence of pure and Mn doped CdS nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 47, 162-166.	2.7	19
20	Temperature-Dependent Raman Scattering of Large Size Hexagonal Bi2Se3 Single-Crystal Nanoplates. Applied Sciences (Switzerland), 2018, 8, 1794.	2.5	19
21	TiO2 Nanosheet Arrays with Layered SnS2 and CoOx Nanoparticles for Efficient Photoelectrochemical Water Splitting. Nanoscale Research Letters, 2019, 14, 342.	5.7	18
22	Reconfigurable resistive switching devices based on individual tungsten trioxide nanowires. AIP Advances, 2013, 3, .	1.3	17
23	Ultrahigh sensitivity and gain white light photodetector based on GaTe/Sn : CdS nanoflake/nanowire heterostructures. Nanotechnology, 2014, 25, 445202.	2.6	17
24	Surface polarons and optical micro-cavity modulated broad range multi-mode emission of Te-doped CdS nanowires. Nanotechnology, 2018, 29, 465709.	2.6	17
25	Raman investigation of layered ZrGeTe4 semiconductor. Applied Physics Letters, 2019, 114, .	3.3	17
26	Ultrafast hydrogen-ion storage in MoO3 nanoribbons. Solid State Ionics, 2020, 353, 115380.	2.7	17
27	1D ZnSSeâ€ZnSe Axial Heterostructure and its Application for Photodetectors. Advanced Electronic Materials, 2019, 5, 1800770.	5.1	16
28	Amorphous Coâ€“Pi anchored on CdSe/TiO2 nanowire arrays for efficient photoelectrochemical hydrogen production. Journal of Materials Science, 2019, 54, 3284-3293.	3.7	16
29	High-performance photodetectors based on bandgap engineered novel layer GaSe_{0.5}Te_{0.5} nanoflakes. RSC Advances, 2016, 6, 60862-60868.	3.6	15
30	Branched TiO₂ Nanorod Arrays Decorated with Au Nanostructure for Plasmon-Enhanced Photoelectrochemical Water Splitting. Journal of the Electrochemical Society, 2020, 167, 026509.	2.9	15
31	Positive and Negative Photoconductivity Conversion Induced by H2O Molecule Adsorption in WO3 Nanowire. Nanoscale Research Letters, 2019, 14, 144.	5.7	14
32	Structure and optical properties of pure and doped ZnO 1D nanostructures. Materials Letters, 2013, 91, 369-371.	2.6	13
33	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
34	Electrical characterization of H2S adsorption on hexagonal WO3 nanowire at room temperature. Journal of Applied Physics, 2014, 116, 164310.	2.5	10
35	Cavity-Enhanced Microphotoluminescence in a Coreâ€“Shell nâ€“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
36	High-performance near-infrared photodetector based on quasi one-dimensional layered (TaSe4)2I. Applied Physics Letters, 2021, 119, .	3.3	8

#	Article	IF	Citations
37	Temperature dependent Raman of BiTe nanotubes. AIP Advances, 2018, 8, .	1.3	7
38	Effect of hydrogen ions in the adsorbed water layer on the resistive switching properties of hexagonal WO3 nanowire. Journal of Applied Physics, 2019, 126, 054303.	2.5	5
39	Colorâ€Tunable Photoluminescence and Whispering Gallery Mode Lasing of Alloyed CsPbCl_{3(1â€“}_x₎Br₃_x Microstructures. Advanced Materials Interfaces, 2020, 7, 1902126.	3.7	5
40	Surface polarity induced three-dimensional wurtzite ZnS/ZnSxSe1â^'x nano-heterostructures with integrating emission property. CrystEngComm, 2013, 15, 9988.	2.6	3
41	Strong temperature-strain coupling in the interface of Sb thin film on flexible PDMS substrate. Applied Physics Letters, 2019, 115, .	3.3	3
42	Optimization of hydrogen-ion storage performance of tungsten trioxide nanowires by niobium doping. Nanotechnology, 2022, 33, 105403.	2.6	3
43	Stable green and red dual-color emission in all-inorganic halide-mixed perovskite single microsheets. RSC Advances, 2020, 10, 18368-18376.	3.6	2
44	Photoluminescence and Boosting Electronâ€“Phonon Coupling in CdS Nanowires with Variable Sn(IV) Dopant Concentration. Nanoscale Research Letters, 2021, 16, 19.	5.7	2
45	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
46	Emission enhancement and exciton species modulation in monolayer WS₂ via decoration of CdTe quantum dots. Applied Physics Letters, 2022, 120, 261105.	3.3	0