

# Hong Zhou

## List of Publications by Citations

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57  
papers

2,659  
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51  
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59  
ext. papers

2,995  
ext. citations

8.2  
avg, IF

4.73  
L-index

#	Paper	IF	Citations
57	Growth of alloy MoS(2x)Se2(1-x) nanosheets with fully tunable chemical compositions and optical properties. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 3756-9	16.4	362
56	Vapor Growth and Tunable Lasing of Band Gap Engineered Cesium Lead Halide Perovskite Micro/Nanorods with Triangular Cross Section. <i>ACS Nano</i> , <b>2017</b> , 11, 1189-1195	16.7	199
55	Directional Growth of Ultralong CsPbBr Perovskite Nanowires for High-Performance Photodetectors. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15592-15595	16.4	195
54	Lateral Growth of Composition Graded Atomic Layer MoS(2(1-x))Se(2x) Nanosheets. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5284-7	16.4	155
53	Room-temperature near-infrared photodetectors based on single heterojunction nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 694-8	11.5	118
52	Perovskite-Erbium Silicate Nanosheet Hybrid Waveguide Photodetectors at the Near-Infrared Telecommunication Band. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604431	24	99
51	High-Performance Flexible Photodetectors based on High-Quality Perovskite Thin Films by a Vapor-Solution Method. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703256	24	96
50	Direct Vapor Growth of Perovskite CsPbBr Nanoplate Electroluminescence Devices. <i>ACS Nano</i> , <b>2017</b> , 11, 9869-9876	16.7	96
49	Cesium lead halide perovskite triangular nanorods as high-gain medium and effective cavities for multiphoton-pumped lasing. <i>Nano Research</i> , <b>2017</b> , 10, 3385-3395	10	89
48	Composition-Modulated Two-Dimensional Semiconductor Lateral Heterostructures via Layer-Selected Atomic Substitution. <i>ACS Nano</i> , <b>2017</b> , 11, 961-967	16.7	86
47	Broken Symmetry Induced Strong Nonlinear Optical Effects in Spiral WS Nanosheets. <i>ACS Nano</i> , <b>2017</b> , 11, 4892-4898	16.7	79
46	Single-Crystalline InGaAs Nanowires for Room-Temperature High-Performance Near-Infrared Photodetectors. <i>Nano-Micro Letters</i> , <b>2016</b> , 8, 29-35	19.5	71
45	Semiconductor alloy nanoribbon lateral heterostructures for high-performance photodetectors. <i>Advanced Materials</i> , <b>2014</b> , 26, 2844-9	24	65
44	Band-selective infrared photodetectors with complete-composition-range InAs(x)P(1-x) alloy nanowires. <i>Advanced Materials</i> , <b>2014</b> , 26, 7444-9	24	64
43	Low-threshold nanowire laser based on composition-symmetric semiconductor nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 1251-6	11.5	62
42	Vapor growth and interfacial carrier dynamics of high-quality CdS-CdSSe-CdS axial nanowire heterostructures. <i>Nano Energy</i> , <b>2017</b> , 32, 28-35	17.1	53
41	Strong thickness-dependent quantum confinement in all-inorganic perovskite Cs <sub>2</sub> PbI <sub>4</sub> with a Ruddlesden-Popper structure. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 7433-7441	7.1	47

40	Significantly enhanced red photoluminescence properties of nanocomposite films composed of a ferroelectric Bi <sub>3.6</sub> Eu <sub>0.4</sub> Ti <sub>3</sub> O <sub>12</sub> matrix and highly c-axis-oriented ZnO nanorods on Si substrates prepared by a hybrid chemical solution method. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 1790-1	16.4	47
39	Strong red emission in lead-free ferroelectric Pr <sup>3+</sup> -doped Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> thin films without the need of charge compensation. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 034102	2.5	42
38	Nanolaser arrays based on individual wavy CdS nanoribbons. <i>Laser and Photonics Reviews</i> , <b>2016</b> , 10, 458-464	8.3	42
37	High Gain Submicrometer Optical Amplifier at Near-Infrared Communication Band. <i>Physical Review Letters</i> , <b>2015</b> , 115, 027403	7.4	38
36	Oriented tuning the photovoltaic properties of FeRbGeX <sub>3</sub> by strain-induced electron effective mass mutation. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 465101	3	37
35	Up-conversion luminescence and optical temperature-sensing properties of Er <sup>3+</sup> -doped perovskite Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> nanocrystals. <i>Journal of Physics and Chemistry of Solids</i> , <b>2016</b> , 98, 28-31	3.9	35
34	Improved Electrical Properties and Strong Red Emission of Pr <sup>3+</sup> -Doped x K <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> (1-x)Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> Lead-Free Ferroelectric Thin Films. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 483-486	3.8	35
33	Dual Enhancement of Photoluminescence and Ferroelectric Polarization in Pr <sup>3+</sup> /La <sup>3+</sup> -Codoped Bismuth Titanate Thin Films. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2109-2112	3.8	32
32	First-principles investigations of electronic and optical properties in the MoS <sub>2</sub> /CsPbBr <sub>3</sub> heterostructure. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 135, 109060	3.9	31
31	Bright up-conversion photoluminescence of Bi <sub>4</sub> Er <sub>x</sub> Ti <sub>3</sub> O <sub>12</sub> ferroelectric thin films. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 043106-043106-5	2.5	31
30	Nonlinear photoluminescence in monolayer WS <sub>2</sub> : parabolic emission and excitation fluence-dependent recombination dynamics. <i>Nanoscale</i> , <b>2017</b> , 9, 7235-7241	7.7	30
29	Room-temperature high-performance CsPbBr <sub>3</sub> perovskite tetrahedral microlasers. <i>Nanoscale</i> , <b>2019</b> , 11, 2393-2400	7.7	29
28	Combination of Strong Blue Up-Conversion Photoluminescence and Greatly Enhanced Ferroelectric Polarization in Tm <sup>3+</sup> -Yb <sup>3+</sup> -W <sup>6+</sup> -Doped Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Thin Films. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, G128	3.9	25
27	Lateral composition-graded semiconductor nanoribbons for multi-color nanolasers. <i>Nano Research</i> , <b>2016</b> , 9, 933-941	10	24
26	Surface plasmon resonance enhanced band-edge emission of CdS@BiO <sub>2</sub> core-shell nanowires with gold nanoparticles attached. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 566-571	7.1	20
25	Synthesis and Diameter-dependent Thermal Conductivity of InAs Nanowires. <i>Nano-Micro Letters</i> , <b>2014</b> , 6, 301-306	19.5	20
24	Microphotoluminescence of individual ZnSe nanoribbons. <i>Materials Letters</i> , <b>2014</b> , 129, 118-121	3.3	15
23	Self-catalytic VLS growth one dimensional layered GaSe nanobelts for high performance photodetectors. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 118, 186-191	3.9	11

22	Bandgap broadly tunable GaZnSeAs alloy nanowires. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 2912-2966	11
21	Colossal resistive switching behavior and its physical mechanism of Pt/p-NiO/n-Mg <sub>0.6</sub> Zn <sub>0.4</sub> O/Pt thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 104, 477-481	2.6 11
20	Effective shape-controlled synthesis of gallium selenide nanosheets by vapor phase deposition. <i>Nano Research</i> , <b>2020</b> , 13, 557-563	10 10
19	Growth and Electrical Properties of 25%Bi(Ni <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> 5%PbTiO <sub>3</sub> Thin Films on Pt/TiO <sub>2</sub> /SiO <sub>2</sub> /Si Substrates Using Pulsed Laser Deposition Method. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 1675-1678	3.8 10
18	Er <sup>3+</sup> -doped Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ferroelectric thin films with enhanced electrical properties and strong green up-conversion luminescence. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 119, 937-940	2.6 9
17	Down-conversion luminescence and its temperature-sensing properties from Er <sup>3+</sup> -doped sodium bismuth titanate ferroelectric thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 121, 773-777	2.6 9
16	Large photoluminescence redshift of ZnTe nanostructures: The effect of twin structures. <i>Chemical Physics Letters</i> , <b>2013</b> , 576, 26-30	2.5 8
15	Synthesis and optical properties of InP quantum dot/nanowire heterostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2013</b> , 210, 1898-1902	1.6 8
14	Complete composition tunability of Cd <sub>1-x</sub> Zn <sub>x</sub> Te alloy nanostructures along a single substrate. <i>Materials Letters</i> , <b>2013</b> , 105, 90-94	3.3 7
13	Epitaxial growth of CsPbBr <sub>3</sub> -PbS vertical and lateral heterostructures for visible to infrared broadband photodetection. <i>Nano Research</i> , <b>2021</b> , 14, 3879	10 7
12	Dielectric properties and bright red emission of Y <sup>3+</sup> /Eu <sup>3+</sup> -codoped ZrO <sub>2</sub> thin films prepared by chemical solution deposition. <i>Ceramics International</i> , <b>2013</b> , 39, 1335-1340	5.1 6
11	Optical characteristics of Bi <sub>4-x</sub> Eu <sub>x</sub> Ti <sub>3</sub> O <sub>12</sub> ferroelectric thin films on fused silica substrates. <i>Journal of Electroceramics</i> , <b>2012</b> , 29, 37-41	1.5 6
10	Structural, Dielectric, and Ferroelectric Properties of BiAlO <sub>3</sub> 5%PbTiO <sub>3</sub> Solid Solution Thin Films on Indium Tin Oxide-Coated Glass Substrates. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 925-927	3.8 6
9	Improved Red Photoluminescence and Ferroelectricity in Layered Composite (Bi,Eu) <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> /ZnO Thin Films. <i>Applied Physics Express</i> , <b>2011</b> , 4, 032103	2.4 5
8	Second harmonic generation and waveguide properties in perovskite Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> nanowires. <i>Optics Letters</i> , <b>2016</b> , 41, 3803-5	3 5
7	Silicon-erbium ytterbium silicate nanowire waveguides with optimized optical gain. <i>Frontiers of Physics</i> , <b>2017</b> , 12, 1	3.7 4
6	Preparation and Photoluminescence of Praseodymium-Doped Bismuth Titanate Ferroelectric Thin Films. <i>Ferroelectrics</i> , <b>2010</b> , 406, 108-113	0.6 4
5	Improved photoluminescence and ferroelectric properties of (Bi <sub>3.6</sub> Eu <sub>0.4</sub> )Ti <sub>3</sub> O <sub>12</sub> thin films via Li <sup>+</sup> doping. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2010</b> , 57, 2134-7	3.2 3

4	Color-tunable photoluminescence in Bi <sub>3.6</sub> Eu <sub>0.4</sub> Ti <sub>3</sub> O <sub>12</sub> /ZnO nanorods composite films. <i>Ceramics International</i> , <b>2013</b> , 39, S507-S511	5.1	2
3	Wang et al. Reply. <i>Physical Review Letters</i> , <b>2016</b> , 117, 219702	7.4	1
2	Comparative investigation of unipolar resistance switching effect of Pt/Mg <sub>0.6</sub> Zn <sub>0.4</sub> O/Pt devices with different electrode patterns for nonvolatile memory application. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 108, 503-508	2.6	1
1	Photoluminescence and Raman spectroscopy characterization of highly c-axis oriented Mg <sub>x</sub> Zn <sub>1-x</sub> O thin films on Pt-coated silicon substrates. <i>Journal of Electroceramics</i> , <b>2011</b> , 27, 162-168	1.5	1