Hong Zhou

List of Publications by Year
in descending order

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59 papers	3,273 citations	159358 30 h-index	143772 57 g-index
59 all docs	59 docs citations	59 times ranked	5143 citing authors

#	Article	IF	Citations
1	Growth of Alloy MoS_{2x}Se_{2(1â€“x)} Nanosheets with Fully Tunable Chemical Compositions and Optical Properties. Journal of the American Chemical Society, 2014, 136, 3756-3759.	6.6	444
2	Directional Growth of Ultralong CsPbBr₃ Perovskite Nanowires for High-Performance Photodetectors. Journal of the American Chemical Society, 2017, 139, 15592-15595.	6.6	260
3	Vapor Growth and Tunable Lasing of Band Gap Engineered Cesium Lead Halide Perovskite Micro/Nanorods with Triangular Cross Section. ACS Nano, 2017, 11, 1189-1195.	7.3	245
4	Lateral Growth of Composition Graded Atomic Layer MoS_{2(1â€“x)}Se_{2x} Nanosheets. Journal of the American Chemical Society, 2015, 137, 5284-5287.	6.6	191
5	Room-Temperature Near-Infrared Photodetectors Based on Single Heterojunction Nanowires. Nano Letters, 2014, 14, 694-698.	4.5	134
6	Perovskiteâ€“Erbium Silicate Nanosheet Hybrid Waveguide Photodetectors at the Nearâ€Infrared Telecommunication Band. Advanced Materials, 2017, 29, 1604431.	11.1	132
7	Broken Symmetry Induced Strong Nonlinear Optical Effects in Spiral WS₂ Nanosheets. ACS Nano, 2017, 11, 4892-4898.	7.3	123
8	Highâ€Performance Flexible Photodetectors based on Highâ€Quality Perovskite Thin Films by a Vaporâ€“Solution Method. Advanced Materials, 2017, 29, 1703256.	11.1	121
9	Direct Vapor Growth of Perovskite CsPbBr₃ Nanoplate Electroluminescence Devices. ACS Nano, 2017, 11, 9869-9876.	7.3	117
10	Cesium lead halide perovskite triangular nanorods as high-gain medium and effective cavities for multiphoton-pumped lasing. Nano Research, 2017, 10, 3385-3395.	5.8	113
11	Single-Crystalline InGaAs Nanowires for Room-Temperature High-Performance Near-Infrared Photodetectors. Nano-Micro Letters, 2016, 8, 29-35.	14.4	101
12	Composition-Modulated Two-Dimensional Semiconductor Lateral Heterostructures via Layer-Selected Atomic Substitution. ACS Nano, 2017, 11, 961-967.	7.3	99
13	Semiconductor Alloy Nanoribbon Lateral Heterostructures for Highâ€Performance Photodetectors. Advanced Materials, 2014, 26, 2844-2849.	11.1	70
14	Low-Threshold Nanowire Laser Based on Composition-Symmetric Semiconductor Nanowires. Nano Letters, 2013, 13, 1251-1256.	4.5	67
15	Bandâ€Selective Infrared Photodetectors with Completeâ€Compositionâ€Range InAs_xP_{1â€x} Alloy Nanowires. Advanced Materials, 2014, 26, 7444-7449.	11.1	67
16	Vapor growth and interfacial carrier dynamics of high-quality CdS-CdSSe-CdS axial nanowire heterostructures. Nano Energy, 2017, 32, 28-35.	8.2	62
17	Strong thickness-dependent quantum confinement in all-inorganic perovskite Cs₂PbI₄with a Ruddlesdenâ€“Popper structure. Journal of Materials Chemistry C, 2019, 7, 7433-7441.	2.7	62
18	Oriented tuning the photovoltaic properties ofÎ³-RbGeX₃by strain-induced electron effective mass mutation. Journal Physics D: Applied Physics, 2017, 50, 465101.	1.3	50

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19	Significantly Enhanced Red Photoluminescence Properties of Nanocomposite Films Composed of a Ferroelectric Bi3.6Eu0.4Ti3O12 Matrix and Highly c-Axis-Oriented ZnO Nanorods on Si Substrates Prepared by a Hybrid Chemical Solution Method. Journal of the American Chemical Society, 2010, 132, 1790-1791.	6.6	49
20	Nanolaser arrays based on individual waved CdS nanoribbons. Laser and Photonics Reviews, 2016, 10, 458-464.	4.4	49
21	Strong upconversion luminescence properties of Yb3+ and Er3+ codoped Bi4Ti3O12 ferroelectric thin films. Journal of Applied Physics, 2009, 106, 126104.	1.1	46
22	Strong red emission in lead-free ferroelectric Pr3+-doped Na0.5Bi0.5TiO3 thin films without the need of charge compensation. Journal of Applied Physics, 2011, 110, 034102.	1.1	46
23	Up-conversion luminescence and optical temperature-sensing properties of Er3+-doped perovskite Na0.5Bi0.5TiO3 nanocrystals. Journal of Physics and Chemistry of Solids, 2016, 98, 28-31.	1.9	44
24	High Gain Submicrometer Optical Amplifier at Near-Infrared Communication Band. Physical Review Letters, 2015, 115, 027403.	2.9	43
25	Nonlinear photoluminescence in monolayer WS₂: parabolic emission and excitation fluence-dependent recombination dynamics. Nanoscale, 2017, 9, 7235-7241.	2.8	41
26	First-principles investigations of electronic and optical properties in the MoS2/CsPbBr3 heterostructure. Journal of Physics and Chemistry of Solids, 2019, 135, 109060.	1.9	39
27	Room-temperature high-performance CsPbBr₃ perovskite tetrahedral microlasers. Nanoscale, 2019, 11, 2393-2400.	2.8	38
28	Dual Enhancement of Photoluminescence and Ferroelectric Polarization in Pr³⁺/La³⁺â€Codoped Bismuth Titanate Thin Films. Journal of the American Ceramic Society, 2010, 93, 2109-2112.	1.9	37
29	Improved Electrical Properties and Strong Red Emission of <scp><scp>Pr³⁺</scp></scp>â€Doped x<scp><scp>K</scp></scp>_{0.5}<scp><scp>Bi</scp></scp>_{0.5}<scp><scp>TiO</scp></scp><sub>3</sub â Lead‐Free Ferroelectric Thin Films. Journal of the American Ceramic Society, 2012, 95, 483-486.	1.9	35
30	Bright up-conversion photoluminescence of Bi4â^'xErxTi3O12 ferroelectric thin films. Journal of Applied Physics, 2011, 109, 043106-043106-5.	1.1	33
31	Lateral composition-graded semiconductor nanoribbons for multi-color nanolasers. Nano Research, 2016, 9, 933-941.	5.8	33
32	Combination of Strong Blue Up-Conversion Photoluminescence and Greatly Enhanced Ferroelectric Polarization in Tm3+-Yb3+-W6+- Doped Bi4Ti3O12 Thin Films. Journal of the Electrochemical Society, 2011, 158, G128.	1.3	26
33	Synthesis and Diameter-dependent Thermal Conductivity of InAs Nanowires. Nano-Micro Letters, 2014, 6, 301-306.	14.4	25
34	Epitaxial growth of CsPbBr3-PbS vertical and lateral heterostructures for visible to infrared broadband photodetection. Nano Research, 2021, 14, 3879-3885.	5.8	25
35	Surface plasmon resonance enhanced band-edge emission of CdSâ€“SiO₂coreâ€“shell nanowires with gold nanoparticles attached. Journal of Materials Chemistry C, 2013, 1, 566-571.	2.7	23
36	Effective shape-controlled synthesis of gallium selenide nanosheets by vapor phase deposition. Nano Research, 2020, 13, 557-563.	5.8	22

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37	Colossal resistive switching behavior and its physical mechanism of Pt/p-NiO/n-Mg0.6Zn0.4O/Pt thin films. Applied Physics A: Materials Science and Processing, 2011, 104, 477-481.	1.1	16
38	Microphotoluminescence of individual ZnSe nanoribbons. Materials Letters, 2014, 129, 118-121.	1.3	15
39	Bandgap broadly tunable GaZnSeAs alloy nanowires. Physical Chemistry Chemical Physics, 2013, 15, 2912.	1.3	13
40	Self-catalytic VLS growth one dimensional layered GaSe nanobelts for high performance photodetectors. Journal of Physics and Chemistry of Solids, 2018, 118, 186-191.	1.9	13
41	Growth and Electrical Properties of 25%Bi(Ni1/2Ti1/2)O3-75%PbTiO3 Thin Films on Pt/TiO2/SiO2/Si Substrates Using Pulsed Laser Deposition Method. Journal of the American Ceramic Society, 2011, 94, 1675-1678.	1.9	10
42	Down-conversion luminescence and its temperature-sensing properties from Er3+-doped sodium bismuth titanate ferroelectric thin films. Applied Physics A: Materials Science and Processing, 2015, 121, 773-777.	1.1	10
43	Synthesis and optical properties of InP quantum dot/nanowire heterostructures. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1898-1902.	0.8	9
44	Er3+-doped Na0.5Bi0.5TiO3 ferroelectric thin films with enhanced electrical properties and strong green up-conversion luminescence. Applied Physics A: Materials Science and Processing, 2015, 119, 937-940.	1.1	9
45	Large photoluminescence redshift of ZnTe nanostructures: The effect of twin structures. Chemical Physics Letters, 2013, 576, 26-30.	1.2	8
46	Complete composition tunability of Cd1â˜'Zn Te alloy nanostructures along a single substrate. Materials Letters, 2013, 105, 90-94.	1.3	8
47	Dielectric properties and bright red emission of Y3+/Eu3+-codoped ZrO2 thin films prepared by chemical solution deposition. Ceramics International, 2013, 39, 1335-1340.	2.3	7
48	Structural, Dielectric, and Ferroelectric Properties of BiAlO₃â€“PbTiO₃ Solid Solution Thin Films on Indium Tin Oxideâ€Coated Glass Substrates. Journal of the American Ceramic Society, 2010, 93, 925-927.	1.9	6
49	Optical characteristics of Bi4-xEuxTi3O12 ferroelectric thin films on fused silica substrates. Journal of Electroceramics, 2012, 29, 37-41.	0.8	6
50	Second harmonic generation and waveguide properties in perovskite Na_05Bi_05TiO_3 nanowires. Optics Letters, 2016, 41, 3803.	1.7	6
51	Improved photoluminescence and ferroelectric properties of (Bi3.6Eu0.4)Ti3O12thin films via Li+doping. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2134-2137.	1.7	5
52	Improved Red Photoluminescence and Ferroelectricity in Layered Composite (Bi,Eu)4Ti3O12/ZnO Thin Films. Applied Physics Express, 2011, 4, 032103.	1.1	5
53	Preparation and Photoluminescence of Praseodymium-Doped Bismuth Titanate Ferroelectric Thin Films. Ferroelectrics, 2010, 406, 108-113.	0.3	4
54	Silicon-erbium ytterbium silicate nanowire waveguides with optimized optical gain. Frontiers of Physics, 2017, 12, 1.	2.4	4

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55	Color-tunable photoluminescence in Bi3.6Eu0.4Ti3O12/ZnO nanorods composite films. Ceramics International, 2013, 39, S507-S511.	2.3	2
56	WangetÂal.Reply:. Physical Review Letters, 2016, 117, 219702.	2.9	2
57	Photoluminescence and Raman spectroscopy characterization of highly c-axis oriented MgxZn1âˆ'xO thin films on Pt-coated silicon substrates. Journal of Electroceramics, 2011, 27, 162-168.	0.8	1
58	Comparative investigation of unipolar resistance switching effect of Pt/Mg0.6Zn0.4O/Pt devices with different electrode patterns for nonvolatile memory application. Applied Physics A: Materials Science and Processing, 2012, 108, 503-508.	1.1	1
59	Scalable Fabrication of Bi2O2Se Polycrystalline Thin Film for Near-infrared Optoelectronic Devices Applications. Chinese Physics B, 0, , .	0.7	1