Zhigang Yin

List of Publications by Year
in descending order

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56	9,988	236612	149479
papers	citations	25 h-index	56 g-index

58	58	58	10429
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Domain matching epitaxy stabilized metastable, tetragonal BiFeO3 on symmetry-mismatched c-plane ZnO. Japanese Journal of Applied Physics, 2022, 61, 025501.	0.8	0
2	Low-Temperature Direct Growth of Few-Layer Hexagonal Boron Nitride on Catalyst-Free Sapphire Substrates. ACS Applied Materials & Interfaces, 2022, 14, 7004-7011.	4.0	24
3	Amplified Spontaneous Emission with a Low Threshold from Quasiâ€2D Perovskite Films via Phase Engineering and Surface Passivation. Advanced Optical Materials, 2022, 10, .	3.6	15
4	Epitaxial growth of large area ZrS2 2D semiconductor films on sapphire for optoelectronics. Nano Research, 2022, 15, 6628-6635.	5.8	9
5	Perovskite Lightâ€Emitting Diodes with External Quantum Efficiency Exceeding 22% via Smallâ€Molecule Passivation. Advanced Materials, 2021, 33, e2007169.	11.1	211
6	Metastable Tetragonal BiFeO3 Stabilized on Anisotropic a-Plane ZnO. Crystal Growth and Design, 2021, 21, 4372-4379.	1.4	3
7	Epitaxial growth of ZrSe₂nanosheets on sapphireviachemical vapor deposition for optoelectronic application. Journal of Materials Chemistry C, 2021, 9, 13954-13962.	2.7	7
8	Stabilization of thick, rhombohedral Hf0.5Zr0.5O2 epilayer on c-plane ZnO. Applied Physics Letters, 2021, 119, .	1.5	9
9	Direct growth of hexagonal boron nitride films on dielectric sapphire substrates by pulsed laser deposition for optoelectronic applications. Fundamental Research, 2021, 1, 677-683.	1.6	23
10	Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue light-emitting diodes. Nature Communications, 2020, 11, 4165.	5.8	217
11	Deep Ultraviolet Photodetectors Based on Carbon-Doped Two-Dimensional Hexagonal Boron Nitride. ACS Applied Materials & Interfaces, 2020, 12, 27361-27367.	4.0	37
12	Compositional Engineering of Mixed-Cation Lead Mixed-Halide Perovskites for High-Performance Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 28005-28012.	4.0	27
13	Cesium Lead Inorganic Solar Cell with Efficiency beyond 18% via Reduced Charge Recombination. Advanced Materials, 2019, 31, e1905143.	11.1	202
14	Effects of Organic Cations on the Structure and Performance of Quasi-Two-Dimensional Perovskite-Based Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2019, 10, 2892-2897.	2.1	56
15	Two-dimensional hexagonal boronâ€“carbonâ€“nitrogen atomic layers. Nanoscale, 2019, 11, 10454-10462.	2.8	34
16	Epitaxial Liftoff of Waferâ€Scale VO₂ Nanomembranes for Flexible, Ultrasensitive Tactile Sensors. Advanced Materials Technologies, 2019, 4, 1800695.	3.0	30
17	Surface passivation of perovskite film for efficient solar cells. Nature Photonics, 2019, 13, 460-466.	15.6	3,458
18	Catalyst-free growth of two-dimensional hexagonal boron nitride few-layers on sapphire for deep ultraviolet photodetectors. Journal of Materials Chemistry C, 2019, 7, 14999-15006.	2.7	53

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19	Controlled Growth of Unidirectionally Aligned Hexagonal Boron Nitride Domains on Single Crystal Ni (111)/MgO Thin Films. Crystal Growth and Design, 2019, 19, 453-459.	1.4	3
20	High-performance deep ultraviolet photodetectors based on few-layer hexagonal boron nitride. Nanoscale, 2018, 10, 5559-5565.	2.8	144
21	Interface Engineering of High-Performance Perovskite Photodetectors Based on PVP/SnO₂ Electron Transport Layer. ACS Applied Materials & Interfaces, 2018, 10, 6505-6512.	4.0	37
22	Efficient green light-emitting diodes based on quasi-two-dimensional composition and phase engineered perovskite with surface passivation. Nature Communications, 2018, 9, 570.	5.8	763
23	Largeâ€Area Synthesis of Layered HfS_{2(1â^'}_x₎Se₂_x Alloys with Fully Tunable Chemical Compositions and Bandgaps. Advanced Materials, 2018, 30, e1803285.	11.1	41
24	Selective Direct Growth of Atomic Layered HfS₂ on Hexagonal Boron Nitride for High Performance Photodetectors. Chemistry of Materials, 2018, 30, 3819-3826.	3.2	51
25	Solvent-controlled growth of inorganic perovskite films in dry environment for efficient and stable solar cells. Nature Communications, 2018, 9, 2225.	5.8	526
26	Enhanced piezoelectric response of the two-tetragonal-phase-coexisted BiFeO 3 epitaxial film. Solid State Communications, 2017, 252, 68-72.	0.9	9
27	Aligned Growth of Millimeterâ€Size Hexagonal Boron Nitride Singleâ€Crystal Domains on Epitaxial Nickel Thin Film. Small, 2017, 13, 1604179.	5.2	76
28	Ultra-bright and highly efficient inorganic based perovskite light-emitting diodes. Nature Communications, 2017, 8, 15640.	5.8	669
29	Reversible transition between coherently strained BiFeO3 and the metastable pseudotetragonal phase on (LaAlO3)0.3(Sr2AlTaO6)0.7 (001). Journal of Applied Physics, 2017, 121, 054102.	1.1	2
30	Planarâ€Structure Perovskite Solar Cells with Efficiency beyond 21%. Advanced Materials, 2017, 29, 1703852.	11.1	1,003
31	A high-performance photodetector based on an inorganic perovskiteâ€“ZnO heterostructure. Journal of Materials Chemistry C, 2017, 5, 6115-6122.	2.7	107
32	Enhanced electron extraction using SnO2 for high-efficiency planar-structure HC(NH2)2PbI3-based perovskite solar cells. Nature Energy, 2017, 2, .	19.8	1,633
33	Enhancing the Photocurrent of Top-Cell by Ellipsoidal Silver Nanoparticles: Towards Current-Matched GaInP/GaInAs/Ge Triple-Junction Solar Cells. Nanomaterials, 2016, 6, 98.	1.9	6
34	Synthesis of atomic layers of hybridized h-BNC by depositing h-BN on graphene via ion beam sputtering. Applied Physics Letters, 2016, 109, .	1.5	16
35	Regular Hexagonal Gold Nanoprisms Fabricated by a Physical Method: Toward Use as Ultrasensitive Surfaceâ€Enhanced Raman Scattering Substrates. Particle and Particle Systems Characterization, 2016, 33, 254-260.	1.2	5
36	Synthesis of Largeâ€Sized Singleâ€Crystal Hexagonal Boron Nitride Domains on Nickel Foils by Ion Beam Sputtering Deposition. Advanced Materials, 2015, 27, 8109-8115.	11.1	74

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37	Formation and local conduction of nanopits in BiFeO₃ epitaxial films. Journal of Materials Chemistry C, 2015, 3, 11250-11256.	2.7	10
38	Controlled Growth of Fewâ€Layer Hexagonal Boron Nitride on Copper Foils Using Ion Beam Sputtering Deposition. Small, 2015, 11, 1542-1547.	5.2	70
39	Electrical properties of sulfur-implanted cubic boron nitride thin films. Science Bulletin, 2014, 59, 1280-1284.	1.7	8
40	Heteroepitaxy of Tetragonal BiFeO₃ on Hexagonal Sapphire(0001). ACS Applied Materials & Interfaces, 2014, 6, 2639-2646.	4.0	15
41	Tetragonal-tetragonal-monoclinic-rhombohedral transition: Strain relaxation of heavily compressed BiFeO3 epitaxial thin films. Applied Physics Letters, 2014, 104, .	1.5	19
42	Efficiency enhancement of polymer solar cells by localized surface plasmon of Au nanoparticles. Journal of Applied Physics, 2013, 114, 163102.	1.1	14
43	Ag nanoparticles preparation and their light trapping performance. Science China Technological Sciences, 2013, 56, 109-114.	2.0	8
44	Biaxial stressâ€induced giant bandgap shift in BiFeO₃ epitaxial films. Physica Status Solidi - Rapid Research Letters, 2012, 6, 37-39.	1.2	15
45	Persistent photoconductivity in ZnO nanostructures induced by surface oxygen vacancy. Physica Status Solidi - Rapid Research Letters, 2012, 6, 117-119.	1.2	24
46	Improvement of electroluminescent performance of n-ZnO/AlN/p-GaN light-emitting diodes by optimizing the AlN barrier layer. Journal of Applied Physics, 2011, 109, .	1.1	26
47	Electrical transport properties of the Si-doped cubic boron nitride thin films prepared by in situ cosputtering. Journal of Applied Physics, 2011, 109, 023716.	1.1	43
48	L10 FePt nanoparticles with distinct perpendicular magnetic anisotropy prepared on Au buffer layers by a micellar method. Journal of Applied Physics, 2011, 109, 113907.	1.1	4
49	Quantifying the effectiveness of SiO2/Au light trapping nanoshells for thin film poly-Si solar cells. Science China Technological Sciences, 2010, 53, 2228-2231.	2.0	3
50	Evaluating the effect of dislocation on the photovoltaic performance of metamorphic tandem solar cells. Science China Technological Sciences, 2010, 53, 2569-2574.	2.0	8
51	Aluminum induced crystallization of strongly (111) oriented polycrystalline silicon thin film and nucleation analysis. Science China Technological Sciences, 2010, 53, 3002-3005.	2.0	5
52	In-plane stray field induced spin-filtering in a two-dimensional electron gas under the modulation of surface ferromagnetic dual-gate. Journal of Applied Physics, 2010, 108, 073703.	1.1	7
53	Quantum efficiency and temperature coefficients of GaInP/GaAs dual-junction solar cell. Science in China Series D: Earth Sciences, 2009, 52, 1176-1180.	0.9	14
54	Interface as the origin of ferromagnetism in cobalt doped ZnO film grown on silicon substrate. Applied Physics Letters, 2008, 93, 142109.	1.5	9

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55	Structural, electrical, and optical properties of InAs[sub x]Sb[sub 1â^'x] epitaxial films grown by liquid-phase epitaxy. Journal of Applied Physics, 2008, 104, 073712.	1.1	5
56	Absence of auxeticity in CoFe₂O₄ epitaxial films. Japanese Journal of Applied Physics, 0, , .	0.8	1