

Xing Wang Zhang

List of Publications by Year in descending order

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papers

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126907

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docs citations

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times ranked

11392
citing authors

#	ARTICLE	IF	CITATIONS
1	Domain matching epitaxy stabilized metastable, tetragonal BiFeO ₃ on symmetry-mismatched c-plane ZnO. Japanese Journal of Applied Physics, 2022, 61, 025501.	1.5	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.	8.0	24
3	Amplified Spontaneous Emission with a Low Threshold from Quasi-2D Perovskite Films via Phase Engineering and Surface Passivation. Advanced Optical Materials, 2022, 10, .	7.3	15
4	Mode-locking operation of an Er-doped fiber laser with (PEA) ₂ (CsPbBr ₃) _n PbBr ₄ perovskite saturable absorbers. Journal of Materials Chemistry C, 2022, 10, 7504-7510.	5.5	6
5	Epitaxial growth of large area ZrS ₂ 2D semiconductor films on sapphire for optoelectronics. Nano Research, 2022, 15, 6628-6635.	10.4	9
6	Nickel oxide for inverted structure perovskite solar cells. Journal of Energy Chemistry, 2021, 52, 393-411.	12.9	132
7	Emerging Low-Dimensional Crystal Structure of Metal Halide Perovskite Optoelectronic Materials and Devices. Small Structures, 2021, 2, 2000133.	12.0	33
8	Perovskite Light-Emitting Diodes with External Quantum Efficiency Exceeding 22% via Small-Molecule Passivation. Advanced Materials, 2021, 33, e2007169.	21.0	211
9	Persistent spin texture in tetragonal BiFeO ₃ . Japanese Journal of Applied Physics, 2021, 60, 050906.	1.5	5
10	Metastable Tetragonal BiFeO ₃ Stabilized on Anisotropic a-Plane ZnO. Crystal Growth and Design, 2021, 21, 4372-4379.	3.0	3
11	Epitaxial growth of ZrSe ₂ nanosheets on sapphire via chemical vapor deposition for optoelectronic application. Journal of Materials Chemistry C, 2021, 9, 13954-13962.	5.5	7
12	Stabilization of thick, rhombohedral Hf _{0.5} Zr _{0.5} O ₂ epilayer on c-plane ZnO. Applied Physics Letters, 2021, 119, .	3.3	9
13	Direct growth of hexagonal boron nitride films on dielectric sapphire substrates by pulsed laser deposition for optoelectronic applications. Fundamental Research, 2021, 1, 677-683.	3.3	23
14	Recent Progresses on Defect Passivation toward Efficient Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1902650.	19.5	516
15	Stabilizing CsPbI ₃ Perovskite via Phenylethylammonium for Efficient Solar Cells with Open-Circuit Voltage over 1.3 V. Small, 2020, 16, e2005246.	10.0	67
16	Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue light-emitting diodes. Nature Communications, 2020, 11, 4165.	12.8	217
17	Deep Ultraviolet Photodetectors Based on Carbon-Doped Two-Dimensional Hexagonal Boron Nitride. ACS Applied Materials & Interfaces, 2020, 12, 27361-27367.	8.0	37
18	Polymer hole-transport material improving thermal stability of inorganic perovskite solar cells. Frontiers of Optoelectronics, 2020, 13, 265-271.	3.7	10

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19	Research progress in large-area perovskite solar cells. <i>Photonics Research</i> , 2020, 8, A1.	7.0	37
20	Compositional Engineering of Mixed-Cation Lead Mixed-Halide Perovskites for High-Performance Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28005-28012.	8.0	27
21	Recent Progress in High-efficiency Planar-structure Perovskite Solar Cells. <i>Energy and Environmental Materials</i> , 2019, 2, 93-106.	12.8	45
22	Cesium Lead Inorganic Solar Cell with Efficiency beyond 18% via Reduced Charge Recombination. <i>Advanced Materials</i> , 2019, 31, e1905143.	21.0	202
23	Recent progress of boron nitrides. , 2019, , 347-419.		7
24	Stabilizing the black phase of cesium lead halide inorganic perovskite for efficient solar cells. <i>Science China Chemistry</i> , 2019, 62, 810-821.	8.2	40
25	Effects of Organic Cations on the Structure and Performance of Quasi-Two-Dimensional Perovskite-Based Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2892-2897.	4.6	56
26	Remote heteroepitaxy of atomic layered hafnium disulfide on sapphire through hexagonal boron nitride. <i>Nanoscale</i> , 2019, 11, 9310-9318.	5.6	20
27	Two-dimensional hexagonal boron-carbon-nitrogen atomic layers. <i>Nanoscale</i> , 2019, 11, 10454-10462.	5.6	34
28	Epitaxial Liftoff of Wafer-Scale VO ₂ Nanomembranes for Flexible, Ultrasensitive Tactile Sensors. <i>Advanced Materials Technologies</i> , 2019, 4, 1800695.	5.8	30
29	Surface passivation of perovskite film for efficient solar cells. <i>Nature Photonics</i> , 2019, 13, 460-466.	31.4	3,458
30	Homogeneous InGaSb crystal grown under microgravity using Chinese recovery satellite SJ-10. <i>Npj Microgravity</i> , 2019, 5, 8.	3.7	12
31	Catalyst-free growth of two-dimensional hexagonal boron nitride few-layers on sapphire for deep ultraviolet photodetectors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14999-15006.	5.5	53
32	Recent progress in synthesis, properties, and applications of hexagonal boron nitride-based heterostructures. <i>Nanotechnology</i> , 2019, 30, 074003.	2.6	31
33	Controlled Growth of Unidirectionally Aligned Hexagonal Boron Nitride Domains on Single Crystal Ni (111)/MgO Thin Films. <i>Crystal Growth and Design</i> , 2019, 19, 453-459.	3.0	3
34	High-performance deep ultraviolet photodetectors based on few-layer hexagonal boron nitride. <i>Nanoscale</i> , 2018, 10, 5559-5565.	5.6	144
35	Interface Engineering of High-Performance Perovskite Photodetectors Based on PVP/SnO ₂ Electron Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6505-6512.	8.0	37
36	Efficient green light-emitting diodes based on quasi-two-dimensional composition and phase engineered perovskite with surface passivation. <i>Nature Communications</i> , 2018, 9, 570.	12.8	763

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37	Self-Seeded MOCVD Growth and Dramatically Enhanced Photoluminescence of InGaAs/InP Core-Shell Nanowires. <i>Nanoscale Research Letters</i> , 2018, 13, 269.	5.7	5
38	Large-Area Synthesis of Layered $\text{HfS}_2(1-x)\text{Se}_x$ Alloys with Fully Tunable Chemical Compositions and Bandgaps. <i>Advanced Materials</i> , 2018, 30, e1803285.	21.0	41
39	Selective Direct Growth of Atomic Layered HfS_2 on Hexagonal Boron Nitride for High Performance Photodetectors. <i>Chemistry of Materials</i> , 2018, 30, 3819-3826.	6.7	51
40	SnO_2 : A Wonderful Electron Transport Layer for Perovskite Solar Cells. <i>Small</i> , 2018, 14, e1801154.	10.0	639
41	Recent Advances in Properties, Synthesis and Applications of Two-Dimensional HfS_2 . <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 7319-7334.	0.9	19
42	Defect-free InAsSb nanowire arrays on Si substrates grown by selective-area metal-organic chemical vapor deposition. <i>Nanotechnology</i> , 2018, 29, 405601.	2.6	5
43	Solvent-controlled growth of inorganic perovskite films in dry environment for efficient and stable solar cells. <i>Nature Communications</i> , 2018, 9, 2225.	12.8	526
44	Enhanced piezoelectric response of the two-tetragonal-phase-coexisted BiFeO ₃ epitaxial film. <i>Solid State Communications</i> , 2017, 252, 68-72.	1.9	9
45	Aligned Growth of Millimeter-Size Hexagonal Boron Nitride Single-Crystal Domains on Epitaxial Nickel Thin Film. <i>Small</i> , 2017, 13, 1604179.	10.0	76
46	Ultra-bright and highly efficient inorganic based perovskite light-emitting diodes. <i>Nature Communications</i> , 2017, 8, 15640.	12.8	669
47	Planar-Structure Perovskite Solar Cells with Efficiency beyond 21%. <i>Advanced Materials</i> , 2017, 29, 1703852.	21.0	1,003
48	Epitaxial growth of HfS_2 on sapphire by chemical vapor deposition and application for photodetectors. <i>2D Materials</i> , 2017, 4, 031012.	4.4	43
49	A high-performance photodetector based on an inorganic perovskite-ZnO heterostructure. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6115-6122.	5.5	107
50	Enhanced electron extraction using SnO_2 for high-efficiency planar-structure $\text{HC}(\text{NH}_2)_2\text{PbI}_3$ -based perovskite solar cells. <i>Nature Energy</i> , 2017, 2, .	39.5	1,633
51	Controlled-Direction Growth of Planar InAsSb Nanowires on Si Substrates without Foreign Catalysts. <i>Nano Letters</i> , 2016, 16, 877-882.	9.1	29
52	Synthesis of Large-Sized Single-Crystal Hexagonal Boron Nitride Domains on Nickel Foils by Ion Beam Sputtering Deposition. <i>Advanced Materials</i> , 2015, 27, 8109-8115.	21.0	74
53	Enhanced efficiency in polymer solar cells via hydrogen plasma treatment of ZnO electron transport layers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3719-3725.	10.3	16
54	Highly efficient and stable planar heterojunction perovskite solar cells via a low temperature solution process. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12133-12138.	10.3	86

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55	Formation and local conduction of nanopits in BiFeO ₃ epitaxial films. Journal of Materials Chemistry C, 2015, 3, 11250-11256.	5.5	10
56	Self-catalyzed growth mechanism of InAs nanowires and growth of InAs/GaSb heterostructured nanowires on Si substrates. Journal of Crystal Growth, 2015, 426, 287-292.	1.5	25
57	Synthesis of in-plane and stacked graphene/hexagonal boron nitride heterostructures by combining with ion beam sputtering deposition and chemical vapor deposition. Nanoscale, 2015, 7, 16046-16053.	5.6	68
58	Controlled Growth of Few-Layer Hexagonal Boron Nitride on Copper Foils Using Ion Beam Sputtering Deposition. Small, 2015, 11, 1542-1547.	10.0	70
59	Electrical properties of sulfur-implanted cubic boron nitride thin films. Science Bulletin, 2014, 59, 1280-1284.	1.7	8
60	Synthesis of silver quantum dots decorated TiO ₂ nanotubes and their incorporation in organic hybrid solar cells. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	2
61	Conjugated molecule doped polyaniline films as buffer layers in organic solar cells. Synthetic Metals, 2013, 178, 18-21.	3.9	6
62	Ag nanoparticles preparation and their light trapping performance. Science China Technological Sciences, 2013, 56, 109-114.	4.0	8
63	Improved performance of GaAs-based micro-solar cell with novel polyimide/SiO ₂ /TiAu/SiO ₂ structure. Science China Technological Sciences, 2011, 54, 830-834.	4.0	1
64	Analysis of leakage current in GaAs micro-solar cell arrays. Science China Technological Sciences, 2010, 53, 1240-1246.	4.0	9
65	Quantifying the effectiveness of SiO ₂ /Au light trapping nanoshells for thin film poly-Si solar cells. Science China Technological Sciences, 2010, 53, 2228-2231.	4.0	3
66	Evaluating the effect of dislocation on the photovoltaic performance of metamorphic tandem solar cells. Science China Technological Sciences, 2010, 53, 2569-2574.	4.0	8
67	Aluminum induced crystallization of strongly (111) oriented polycrystalline silicon thin film and nucleation analysis. Science China Technological Sciences, 2010, 53, 3002-3005.	4.0	5
68	Electrical bistability and negative differential resistance in diodes based on silver nanoparticle-poly(N-vinylcarbazole) composites. Journal of Applied Physics, 2010, 108, 094320.	2.5	13
69	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
70	Enhanced Proton Conduction in Polymer Electrolyte Membranes as Synthesized by Polymerization of Protic Ionic Liquid-Based Microemulsions. Chemistry of Materials, 2009, 21, 1480-1484.	6.7	142
71	Enhancement of conductivity and photoluminescence in sulphur-doped C60 thin films. Journal of Materials Science Letters, 2001, 20, 449-451.	0.5	1
72	Optical absorption edge characteristics of cubic boron nitride thin films. Applied Physics Letters, 1999, 75, 10-12.	3.3	41

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73	Absence of auxeticity in CoFe_2O_4 epitaxial films. Japanese Journal of Applied Physics, 0, , .	1.5	1