

Fangyu Yue

List of Publications by Year in descending order

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-Field-Induced Room-Temperature Antiferroelectricâ€“Ferroelectric Phase Transition in van der Waals Layered GeSe. ACS Nano, 2022, 16, 1308-1317.	14.6	30
2	Ferro-electric and magnetic properties in Bi ₅ Ti ₃ FeO ₁₅ films by Mn doping. Journal of Materials Chemistry C, 2022, 10, 1003-1009.	5.5	0
3	Influence of selenium growth condition on the photovoltaic conversion efficiency of Sb ₂ Se ₃ as the solar cell absorption layer. Journal of Materials Science: Materials in Electronics, 2022, 33, 10335-10342.	2.2	4
4	Positive Role of Inhibiting CZTSSe Decomposition on Intrinsic Defects and Interface Recombination of 12.03% Efficient Kesterite Solar Cells. Solar Rrl, 2022, 6, .	5.8	16
5	Bandgap narrowing and ferroic modulation in KNbO ₃ ceramics composited by spinel AFe ₂ O ₄ (A = Mg, Tj ETQq1 1.0, 784314, rgBT / Over	5.5	2
6	A â€œTurn-onâ€ fluorescence perovskite sensor based on MAPbBr ₃ /mesoporous TiO ₂ for NH ₃ and amine vapor detections. Sensors and Actuators B: Chemical, 2021, 327, 128918.	7.8	26
7	A flexible polypyrrole/silk-fiber ammonia sensor assisted by silica nanosphere template. Sensors and Actuators A: Physical, 2021, 317, 112436.	4.1	29
8	MGa ₂ B ₂ O ₇ :Bi ³⁺ , Al ³⁺ (M = Sr, Ba) blue phosphors with a quantum yield of 99% and negative thermal quenching. Inorganic Chemistry Frontiers, 2021, 8, 4257-4266.	6.0	7
9	Atomic Insights into Ti Doping on the Stability Enhancement of Truncated Octahedron LiMn ₂ O ₄ Nanoparticles. Nanomaterials, 2021, 11, 508.	4.1	18
10	Room temperature preparation of highly stable cesium lead halide perovskite nanocrystals by ligand modification for white light-emitting diodes. Nano Research, 2021, 14, 2770-2775.	10.4	28
11	Stimulated emission at 1.54â€µm from erbium/oxygen-doped silicon-based light-emitting diodes. Photonics Research, 2021, 9, 714.	7.0	9
12	Broadband Photodetectors: Broadband Bi ₂ O ₂ Se Photodetectors from Infrared to Terahertz (Adv. Funct. Mater. 14/2021). Advanced Functional Materials, 2021, 31, 2170093.	14.9	3
13	Electric-field modulated photovoltaic effect of ferroelectric double-perovskite Bi ₂ FeMnO ₆ films. Applied Physics Letters, 2021, 119, .	3.3	7
14	Broadband Bi ₂ O ₂ Se Photodetectors from Infrared to Terahertz. Advanced Functional Materials, 2021, 31, 2009554.	14.9	65
15	Carrier Transfer of Deepâ€Level Localized States in Typeâ€ In _x Ga _{1-x} As/GaN _y As _{1-y} Shortâ€Period Superlattice. Physica Status Solidi (B): Basic Research, 2020, 257, 1900258.	1.5	3
16	Effect of CZTS/CdS interfaces deposited with sputtering and CBD methods on Voc deficit and efficiency of CZTS solar cells. Journal of Alloys and Compounds, 2020, 817, 153329.	5.5	23
17	Transmission behaviors of metallic ATR mid-infrared hollow waveguide at low temperature and performance improvement. Optics Communications, 2020, 458, 124821.	2.1	3
18	Field dependent ultrafast carrier dynamics in InGaN/GaN p-i(MQW)-n structure. Superlattices and Microstructures, 2020, 137, 106354.	3.1	0

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19	Efficient Er/O ²⁺ -Doped Silicon Light-Emitting Diodes at Communication Wavelength by Deep Cooling. <i>Advanced Optical Materials</i> , 2020, 8, 2000720.	7.3	23
20	A flexible paper sensor based on polyaniline/germanium film for NH ₃ detection. <i>Materials Letters</i> , 2020, 278, 128438.	2.6	9
21	High-speed ultraviolet photodetectors based on 2D layered CuInP ₂ S ₆ nanoflakes. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	42
22	Stable fluorescent NH ₃ sensor based on MAPbBr ₃ encapsulated by tetrabutylammonium cations. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155386.	5.5	23
23	Infrared emission bands and thermal effects for 440-nm-emitting GaN-based laser diodes. <i>AIP Advances</i> , 2020, 10, .	1.3	3
24	Phase transitions and electrical/optical properties in (1-x)KNbO ₃ -x(Ba _{0.5} Bi _{0.5})(Nb _{0.5} Zn _{0.5})O ₃ ceramics. <i>Ceramics International</i> , 2020, 46, 18026-18031.	4.8	5
25	NIR-Emitting Erbium/Oxygen-Doped Silicon by Self-Assembled Techniques. , 2019, , .		0
26	Solution-processed SnO ₂ interfacial layer for highly efficient Sb ₂ Se ₃ thin film solar cells. <i>Nano Energy</i> , 2019, 60, 802-809.	16.0	111
27	Thin-wall cyclic olefin copolymer tube waveguide for broadband terahertz transmission. <i>Optical Materials</i> , 2019, 98, 109490.	3.6	13
28	Origin of Band-Tail and Deep-Donor States in Cu ₂ ZnSnS ₄ Solar Cells and Their Suppression through Sn-Poor Composition. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7929-7936.	4.6	64
29	Origin of yellow emissions from (In,Ga,Al)N based 450-nm emitting diode lasers. <i>OSA Continuum</i> , 2019, 2, 1496.	1.8	3
30	Emission Kinetics from PbSe Quantum Dots in Glass Matrix at High Excitation Levels. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800012.	2.4	1
31	Compositional dependence of photovoltaic properties of Cu ₂ ZnSnSe ₄ thin film solar cell: Experiment and simulation. <i>Solar Energy</i> , 2018, 159, 572-578.	6.1	13
32	Comprehensive understanding of heat-induced degradation of triple-cation mixed halide perovskite for a robust solar cell. <i>Nano Energy</i> , 2018, 54, 218-226.	16.0	72
33	Metallic hollow waveguide based on GeO ₂ -NaOH precursor solution for transmission of CO ₂ laser radiations. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	3
34	Strategic improvement of Cu ₂ SnS ₃ thin film by different heating rates and photoluminescence investigation. <i>Materials Science in Semiconductor Processing</i> , 2018, 84, 124-130.	4.0	10
35	Thermal oxidation-resistant GeO ₂ ATR hollow waveguide based on NiCr capillary tube and its thermal effects. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	0
36	Optical homogeneity analysis of Hg _{1-x} Cd _x Te epitaxial layers: How to circumvent the influence of impurity absorption bands?. <i>Infrared Physics and Technology</i> , 2017, 82, 1-7.	2.9	11

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37	Thermal behaviors of stainless steel tube based GeO ₂ ATR hollow fibers for transmitting CO ₂ laser radiations. <i>Optics and Laser Technology</i> , 2017, 95, 42-45.	4.6	8
38	The synthesis and microstructural, optical, magnetic characterizations of m ⁰ 0-oriented epitaxial Bi ₂ Fe ₄ O ₉ thin film by pulsed laser deposition. <i>Materials Letters</i> , 2017, 204, 81-84.	2.6	9
39	Synthesis, Structure and Properties of Formamide-templated Metal Formate Crystals. <i>Crystal Research and Technology</i> , 2017, 52, 1700195.	1.3	3
40	Investigation of Cu ₂ ZnSnS ₄ thin films with controllable Cu composition and its influence on photovoltaic properties for solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 694, 833-840.	5.5	25
41	Antimony-induced grain growth and properties modification of Cu(In, Al)Se ₂ thin films fabricated by selenization of sputtered stacked precursors. <i>Journal of Alloys and Compounds</i> , 2016, 689, 21-29.	5.5	8
42	Preparation and transmission characteristics of a mid-infrared attenuated total reflection hollow waveguide based on a stainless steel capillary tube. <i>Applied Optics</i> , 2016, 55, 6404.	2.1	11
43	Temperature dependence of the fundamental excitonic resonance in lead-salt quantum dots. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	9
44	Charge character in the double-barrier quantum dots in well hybrid structure. <i>Micro and Nano Letters</i> , 2015, 10, 533-536.	1.3	1
45	Microstructure tuning and magnetism switching of ferroelectric barium titanate. <i>Materials Characterization</i> , 2015, 107, 1-6.	4.4	5
46	Short-wavelength infrared defect emission as probe for degradation effects in diode lasers. , 2015, , .		1
47	Structural and optical tunability by reaction time of selenization in Cu ₂ FeSnSe ₄ thin films. <i>Journal of Alloys and Compounds</i> , 2015, 646, 68-72.	5.5	5
48	Influence of annealing temperature on structural and optical properties of Cu ₂ MnSnS ₄ thin films fabricated by sol-gel technique. <i>Journal of Alloys and Compounds</i> , 2015, 640, 23-28.	5.5	53
49	Synthesis and characterization of Cu-based selenide photovoltaic materials: Cu ₂ FeSnSe ₄ and Cu(In, Tj)ETQq1. <i>Optics and Photonics</i> , 2015, 13, 0784314.	5.5	13
50	Investigation of microstructural and optical properties of Cu(In, Al)Se ₂ thin films with various copper content. <i>Journal of Alloys and Compounds</i> , 2015, 651, 208-213.	5.5	12
51	Narrow-Gap Semiconductors and Low-Dimensional Structures for Optoelectronic Applications. <i>Scientific World Journal</i> , The, 2014, 2014, 1-2.	2.1	1
52	Experimental observation of exciton splitting and relaxation dynamics from PbS quantum dots in a glass matrix. <i>Physical Review B</i> , 2014, 89, .	3.2	6
53	Short-wavelength infrared defect emission as a probe of degradation processes in 980 nm single-mode diode lasers. <i>Laser and Photonics Reviews</i> , 2014, 8, L59-L64.	8.7	7
54	Stimulated emission from PbS-quantum dots in glass matrix. <i>Laser and Photonics Reviews</i> , 2013, 7, L1.	8.7	11

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55	PbS:Glass as broad-bandwidth near-infrared light source material. Optics Express, 2013, 21, 2287.	3.4	20
56	Spontaneous and stimulated emission dynamics of PbS quantum dots in a glass matrix. Physical Review B, 2013, 87, .	3.2	15
57	The determination of the x value in doped $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ by transmission spectra. Chinese Physics B, 2012, 21, 017804.	1.4	0
58	Comparative study on $\text{Cu}_2\text{ZnSnS}_4$ thin films deposited by sputtering and pulsed laser deposition from a single quaternary sulfide target. Journal of Crystal Growth, 2012, 361, 147-151.	1.5	52
59	Structure, composition and optical properties of $\text{Cu}_2\text{ZnSnS}_4$ thin films deposited by Pulsed Laser Deposition method. Solar Energy Materials and Solar Cells, 2011, 95, 2907-2913.	6.2	176
60	Preparation and characterization of $\text{BiFeO}_3/\text{LaNiO}_3$ heterostructure films grown on silicon substrate. Journal of Crystal Growth, 2010, 312, 617-620.	1.5	10
61	Influence of annealing conditions on impurity species in arsenic-doped HgCdTe grown by molecular beam epitaxy. Chinese Physics B, 2010, 19, 117106.	1.4	5
62	Impurity Activation in MBE-Grown As-Doped HgCdTe by Modulated Photoluminescence Spectra. Chinese Physics Letters, 2009, 26, 047804.	3.3	2
63	Effects of deposition temperature and post-annealing on structure and electrical properties in $(\text{La}_{0.5}\text{Sr}_{0.5})\text{CoO}_3$ films grown on silicon substrate. Applied Physics A: Materials Science and Processing, 2009, 95, 721-725.	2.3	8
64	Effect of thickness on the dielectric property and nonlinear current-voltage behavior of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ thin films. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2389-2392.	2.1	15
65	Influence of substitution of Nd^{3+} for Bi^{3+} on structure and piezoelectric properties of $\text{SrBi}_{2-x}\text{Nd}_x\text{Nb}_2\text{O}_9$ ($x=0, 0.1, 0.2$ and 0.4). Transactions of Nonferrous Metals Society of China, 2009, 19, 1459-1463.	4.2	16
66	Oxygen-vacancy-related dielectric relaxation in BiFeO_3 films grown by pulsed laser deposition. Journal Physics D: Applied Physics, 2008, 41, 215403.	2.8	30
67	Deep/shallow levels in arsenic-doped HgCdTe determined by modulated photoluminescence spectra. Applied Physics Letters, 2008, 93, 131909.	3.3	28
68	Modulated photoluminescence of shallow levels in arsenic-doped $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ ($x=0.3$) grown by molecular beam epitaxy. Applied Physics Letters, 2008, 92, .	3.3	28
69	Growth and ellipsometric characterizations of highly (111)-oriented $\text{Bi}_2\text{Ti}_2\text{O}_7$ films on platinized silicon by metal organic decomposition method. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 1287-1292.	2.1	5
70	Temperature dependence of optical band gap in ferroelectric $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ films determined by ultraviolet transmittance measurements. Applied Physics Letters, 2007, 91, .	3.3	28
71	Properties of highly (100) oriented $\text{Pb}(\text{Mg}_{1-x}\text{Nb}_x)_3\text{O}_3$ PbTiO_3 films on LaNiO_3 bottom electrodes. Applied Physics Letters, 2007, 91, .	3.3	16
72	Photoreflectance spectroscopy with a step-scan Fourier-transform infrared spectrometer: Technique and applications. Review of Scientific Instruments, 2007, 78, 013111.	1.3	47

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73	Cutoff wavelength of Hg _{1-x} CdxTe epilayers by infrared photoreflectance spectroscopy. Applied Physics Letters, 2007, 90, 171101.	3.3	14
74	Modulated photoluminescence spectroscopy with a step-scan Fourier transform infrared spectrometer. Review of Scientific Instruments, 2006, 77, 063104.	1.3	105
75	Electromagnetic wave propagation and heat radiative effect in metal particle cloud. , 2006, , .		0
76	Photomodulated infrared spectroscopy by a step-scan Fourier transform infrared spectrometer. Applied Physics Letters, 2006, 89, 182121.	3.3	32
77	Anomalous temperature dependence of absorption edge in narrow-gap HgCdTe semiconductors. Applied Physics Letters, 2006, 89, 021912.	3.3	25
78	Magnetophotoluminescence study of GaxIn _{1-x} P quantum wells with CuPt-type long-range ordering. Journal of Applied Physics, 2006, 100, 053522.	2.5	16