

# Fangyu Yue

## List of Publications by Year in descending order

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78  
papers

1,566  
citations

304743

22  
h-index

330143

37  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1786  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure, composition and optical properties of Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films deposited by Pulsed Laser Deposition method. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2907-2913.	6.2	176
2	Solution-processed SnO <sub>2</sub> interfacial layer for highly efficient Sb <sub>2</sub> Se <sub>3</sub> thin film solar cells. <i>Nano Energy</i> , 2019, 60, 802-809.	16.0	111
3	Modulated photoluminescence spectroscopy with a step-scan Fourier transform infrared spectrometer. <i>Review of Scientific Instruments</i> , 2006, 77, 063104.	1.3	105
4	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
5	Broadband Bi <sub>2</sub> O <sub>2</sub> Se Photodetectors from Infrared to Terahertz. <i>Advanced Functional Materials</i> , 2021, 31, 2009554.	14.9	65
6	Origin of Band-Tail and Deep-Donor States in Cu <sub>2</sub> ZnSnS <sub>4</sub> Solar Cells and Their Suppression through Sn-Poor Composition. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7929-7936.	4.6	64
7	Influence of annealing temperature on structural and optical properties of Cu <sub>2</sub> MnSnS <sub>4</sub> thin films fabricated by sol-gel technique. <i>Journal of Alloys and Compounds</i> , 2015, 640, 23-28.	5.5	53
8	Comparative study on Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films deposited by sputtering and pulsed laser deposition from a single quaternary sulfide target. <i>Journal of Crystal Growth</i> , 2012, 361, 147-151.	1.5	52
9	Photoreflectance spectroscopy with a step-scan Fourier-transform infrared spectrometer: Technique and applications. <i>Review of Scientific Instruments</i> , 2007, 78, 013111.	1.3	47
10	High-speed ultraviolet photodetectors based on 2D layered CuInP <sub>2</sub> S <sub>6</sub> nanoflakes. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	42
11	Photomodulated infrared spectroscopy by a step-scan Fourier transform infrared spectrometer. <i>Applied Physics Letters</i> , 2006, 89, 182121.	3.3	32
12	Oxygen-vacancy-related dielectric relaxation in BiFeO <sub>3</sub> films grown by pulsed laser deposition. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 215403.	2.8	30
13	Electric-Field-Induced Room-Temperature Antiferroelectric-Ferroelectric Phase Transition in van der Waals Layered GeSe. <i>ACS Nano</i> , 2022, 16, 1308-1317.	14.6	30
14	A flexible polypyrrole/silk-fiber ammonia sensor assisted by silica nanosphere template. <i>Sensors and Actuators A: Physical</i> , 2021, 317, 112436.	4.1	29
15	Temperature dependence of optical band gap in ferroelectric Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> films determined by ultraviolet transmittance measurements. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	28
16	Deep/shallow levels in arsenic-doped HgCdTe determined by modulated photoluminescence spectra. <i>Applied Physics Letters</i> , 2008, 93, 131909.	3.3	28
17	Modulated photoluminescence of shallow levels in arsenic-doped Hg <sub>1-x</sub> Cd <sub>x</sub> Te (x~0.3) grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	28
18	Room temperature preparation of highly stable cesium lead halide perovskite nanocrystals by ligand modification for white light-emitting diodes. <i>Nano Research</i> , 2021, 14, 2770-2775.	10.4	28

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19	A "Turn-on" fluorescence perovskite sensor based on MAPbBr <sub>3</sub> /mesoporous TiO <sub>2</sub> for NH <sub>3</sub> and amine vapor detections. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128918.	7.8	26
20	Anomalous temperature dependence of absorption edge in narrow-gap HgCdTe semiconductors. <i>Applied Physics Letters</i> , 2006, 89, 021912.	3.3	25
21	Investigation of Cu <sub>2</sub> ZnSnS <sub>4</sub> 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
22	Effect of CZTS/CdS interfaces deposited with sputtering and CBD methods on Voc deficit and efficiency of CZTS solar cells. <i>Journal of Alloys and Compounds</i> , 2020, 817, 153329.	5.5	23
23	Efficient Er/O-Doped Silicon Light-Emitting Diodes at Communication Wavelength by Deep Cooling. <i>Advanced Optical Materials</i> , 2020, 8, 2000720.	7.3	23
24	Stable fluorescent NH <sub>3</sub> sensor based on MAPbBr <sub>3</sub> encapsulated by tetrabutylammonium cations. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155386.	5.5	23
25	PbS:Glass as broad-bandwidth near-infrared light source material. <i>Optics Express</i> , 2013, 21, 2287.	3.4	20
26	Atomic Insights into Ti Doping on the Stability Enhancement of Truncated Octahedron LiMn <sub>2</sub> O <sub>4</sub> Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 508.	4.1	18
27	Magnetophotoluminescence study of GaIn <sub>1-x</sub> P quantum wells with CuPt-type long-range ordering. <i>Journal of Applied Physics</i> , 2006, 100, 053522.	2.5	16
28	Properties of highly (100) oriented Pb(Mg <sub>1-x</sub> Nb <sub>2x-3</sub> )O <sub>3</sub> PbTiO <sub>3</sub> films on LaNiO <sub>3</sub> bottom electrodes. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	16
29	Influence of substitution of Nd <sup>3+</sup> for Bi <sup>3+</sup> on structure and piezoelectric properties of SrBi <sub>2-x</sub> Nd <sub>x</sub> Nb <sub>2</sub> O <sub>9</sub> (x=0, 0.1, 0.2 and 0.4). <i>Transactions of Nonferrous Metals Society of China</i> , 2009, 19, 1459-1463.	4.2	16
30	Positive Role of Inhibiting CZTSSe Decomposition on Intrinsic Defects and Interface Recombination of 12.03% Efficient Kesterite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	5.8	16
31	Effect of thickness on the dielectric property and nonlinear current-voltage behavior of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 2389-2392.	2.1	15
32	Spontaneous and stimulated emission dynamics of PbS quantum dots in a glass matrix. <i>Physical Review B</i> , 2013, 87, .	3.2	15
33	Cutoff wavelength of Hg <sub>1-x</sub> CdxTe epilayers by infrared photoreflectance spectroscopy. <i>Applied Physics Letters</i> , 2007, 90, 171101.	3.3	14
34	Synthesis and characterization of Cu-based selenide photovoltaic materials: Cu <sub>2</sub> FeSnSe <sub>4</sub> and Cu(In, Tl)ETe. <i>Journal of Applied Physics</i> , 2007, 102, 043702.	3.5	13
35	Compositional dependence of photovoltaic properties of Cu <sub>2</sub> ZnSnSe <sub>4</sub> thin film solar cell: Experiment and simulation. <i>Solar Energy</i> , 2018, 159, 572-578.	6.1	13
36	Thin-wall cyclic olefin copolymer tube waveguide for broadband terahertz transmission. <i>Optical Materials</i> , 2019, 98, 109490.	3.6	13

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37	Investigation of microstructural and optical properties of Cu(In, Al)Se <sub>2</sub> thin films with various copper content. <i>Journal of Alloys and Compounds</i> , 2015, 651, 208-213.	5.5	12
38	Stimulated emission from PbS quantum dots in glass matrix. <i>Laser and Photonics Reviews</i> , 2013, 7, L1.	8.7	11
39	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
40	Optical homogeneity analysis of Hg <sub>1-x</sub> Cd <sub>x</sub> 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
41	Preparation and characterization of BiFeO <sub>3</sub> /LaNiO <sub>3</sub> heterostructure films grown on silicon substrate. <i>Journal of Crystal Growth</i> , 2010, 312, 617-620.	1.5	10
42	Strategic improvement of Cu <sub>2</sub> SnS <sub>3</sub> thin film by different heating rates and photoluminescence investigation. <i>Materials Science in Semiconductor Processing</i> , 2018, 84, 124-130.	4.0	10
43	Temperature dependence of the fundamental excitonic resonance in lead-salt quantum dots. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	9
44	The synthesis and microstructural, optical, magnetic characterizations of m 0 0-oriented epitaxial Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> thin film by pulsed laser deposition. <i>Materials Letters</i> , 2017, 204, 81-84.	2.6	9
45	A flexible paper sensor based on polyaniline/germanium film for NH <sub>3</sub> detection. <i>Materials Letters</i> , 2020, 278, 128438.	2.6	9
46	Stimulated emission at 1.54 μm from erbium/oxygen-doped silicon-based light-emitting diodes. <i>Photonics Research</i> , 2021, 9, 714.	7.0	9
47	Effects of deposition temperature and post-annealing on structure and electrical properties in (La <sub>0.5</sub> Sr <sub>0.5</sub> )CoO <sub>3</sub> films grown on silicon substrate. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 721-725.	2.3	8
48	Antimony-induced grain growth and properties modification of Cu(In, Al)Se <sub>2</sub> thin films fabricated by selenization of sputtered stacked precursors. <i>Journal of Alloys and Compounds</i> , 2016, 689, 21-29.	5.5	8
49	Thermal behaviors of stainless steel tube based GeO <sub>2</sub> ATR hollow fibers for transmitting CO <sub>2</sub> laser radiations. <i>Optics and Laser Technology</i> , 2017, 95, 42-45.	4.6	8
50	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
51	MGa <sub>2</sub> B <sub>2</sub> O <sub>7</sub> :Bi <sup>3+</sup> , Al <sup>3+</sup> (M = Sr, Ba) blue phosphors with a quantum yield of 99% and negative thermal quenching. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4257-4266.	6.0	7
52	Electric-field modulated photovoltaic effect of ferroelectric double-perovskite Bi <sub>2</sub> FeMnO <sub>6</sub> films. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	7
53	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
54	Growth and ellipsometric characterizations of highly (111)-oriented Bi <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> films on platinized silicon by metal organic decomposition method. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 1287-1292.	2.1	5



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73	Electromagnetic wave propagation and heat radiative effect in metal particle cloud. , 2006, , .		0
74	The determination of the $\chi$ value in doped $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ by transmission spectra. Chinese Physics B, 2012, 21, 017804.	1.4	0
75	Thermal oxidation-resistant $\text{GeO}_2$ ATR hollow waveguide based on NiCr capillary tube and its thermal effects. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	0
76	NIR-Emitting Erbium/Oxygen-Doped Silicon by Self-Assembled Techniques. , 2019, , .		0
77	Field dependent ultrafast carrier dynamics in InGaN/GaN p-i(MQW)-n structure. Superlattices and Microstructures, 2020, 137, 106354.	3.1	0
78	Ferro-electric and magnetic properties in $\text{Bi}_5\text{Ti}_3\text{FeO}_{15}$ films by Mn doping. Journal of Materials Chemistry C, 2022, 10, 1003-1009.	5.5	0