

Xun Yang

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,528
citations

136740

32
h-index

138251

58
g-index

70
all docs

70
docs citations

70
times ranked

3174
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-induced photoluminescence enhancement and ambient retention in confined carbon dots. <i>Nano Research</i> , 2022, 15, 2545-2551.	5.8	26
2	Electron-hole plasma Fabry-Perot lasing in a Ga-incorporated ZnO microbelt via Ag nanoparticle deposition. <i>Optics Express</i> , 2022, 30, 740.	1.7	3
3	Ultra-sensitive flexible Ga ₂ O ₃ solar-blind photodetector array realized via ultra-thin absorbing medium. <i>Nano Research</i> , 2022, 15, 3711-3719.	5.8	44
4	Pentaheptite diamond: a new carbon allotrope. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 184003.	0.7	0
5	Revealing the Anisotropic Structural and Electrical Stabilities of 2D SnSe under Harsh Environments: Alkaline Environment and Mechanical Strain. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9824-9832.	4.0	3
6	Wafer-sized polycrystalline diamond photodetector planar arrays for solar-blind imaging. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6488-6496.	2.7	14
7	Association of APEX1 and XRCC1 Gene Polymorphisms With HIV-1 Infection Susceptibility and AIDS Progression in a Northern Chinese MSM Population. <i>Frontiers in Genetics</i> , 2022, 13, 861355.	1.1	1
8	2D Ultrawide Bandgap Semiconductors: Odyssey and Challenges. <i>Small Methods</i> , 2022, 6, e2101348.	4.6	18
9	<i>In Situ</i> Fabrication of PdSe ₂ /GaN Schottky Junction for Polarization-Sensitive Ultraviolet Photodetection with High Dichroic Ratio. <i>ACS Nano</i> , 2022, 16, 5545-5555.	7.3	139
10	High-performance $\hat{\text{I}}^2\text{-Ga}_2\text{O}_3$ -based solar-blind photodetector with ultralow dark current and fast photoresponse for deep-ultraviolet communication. <i>Optical Materials Express</i> , 2022, 12, 327.	1.6	25
11	Fabry-Perot interference and piezo-phototronic effect enhanced flexible MoS ₂ photodetector. <i>Nano Research</i> , 2022, 15, 4395-4402.	5.8	19
12	Ultrasensitive fully transparent amorphous Ga ₂ O ₃ solar-blind deep-ultraviolet photodetector for corona discharge detection. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 305104.	1.3	21
13	High-performance solar-blind photodetector arrays constructed from Sn-doped Ga ₂ O ₃ microwires via patterned electrodes. <i>Nano Research</i> , 2022, 15, 7631-7638.	5.8	26
14	Ga ₂ O ₃ -Based Solar-Blind Position-Sensitive Detector for Noncontact Measurement and Optoelectronic Demodulation. <i>Nano Letters</i> , 2022, 22, 4888-4896.	4.5	27
15	Solar-blind imaging based on 2-inch polycrystalline diamond photodetector linear array. <i>Carbon</i> , 2021, 173, 427-432.	5.4	39
16	Recent advances toward environment-friendly photodetectors based on lead-free metal halide perovskites and perovskite derivatives. <i>Materials Horizons</i> , 2021, 8, 1367-1389.	6.4	46
17	Humidity Sensors Realized via Negative Photoconductivity Effect in Nanodiamonds. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4079-4084.	2.1	18
18	Bandgap engineering of Gallium oxides by crystalline disorder. <i>Materials Today Physics</i> , 2021, 18, 100369.	2.9	44

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19	Zero-biased solar-blind photodetectors based on AlN/ Ga_2O_3 heterojunctions. <i>Semiconductor Science and Technology</i> , 2021, 36, 065007.	1.0	11
20	Flexible and Biocompatible Physical Unclonable Function Anti-Counterfeiting Label. <i>Advanced Functional Materials</i> , 2021, 31, 2102108.	7.8	52
21	Computational Prediction of a Novel Superhard sp^3 Trigonal Carbon Allotrope with Bandgap Larger than Diamond. <i>Chinese Physics Letters</i> , 2021, 38, 076101.	1.3	14
22	Solar-blind Position-Sensitive Detectors Fabricated from $\text{AlN}/\text{Ga}_2\text{O}_3$ /Polycrystalline Diamond Heterojunctions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100347.	1.2	11
23	Nanodiamonds: Synthesis, properties, and applications in nanomedicine. <i>Materials and Design</i> , 2021, 210, 110091.	3.3	68
24	Ga_2O_3 -based multilevel solar-blind photomemory array with logic, arithmetic, and image storage functions. <i>Materials Horizons</i> , 2021, 8, 3368-3376.	6.4	19
25	Degradation and mechanism of microcystin-LR by PbCrO_4 nanorods driven by visible light. <i>Chemosphere</i> , 2020, 239, 124739.	4.2	19
26	Pressure-Induced Ultra-Broad-Band Emission of a $\text{Cs}_2\text{AgBiBr}_6$ Perovskite Thin Film. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1732-1738.	1.5	25
27	Highly stable and spectrum-selective ultraviolet photodetectors based on lead-free copper-based perovskites. <i>Materials Horizons</i> , 2020, 7, 530-540.	6.4	164
28	Construction of Defective Zinc-Cadmium-Sulfur Nanorods for Visible-Light-Driven Hydrogen Evolution Without the Use of Sacrificial Agents or Cocatalysts. <i>ChemSusChem</i> , 2020, 13, 756-762.	3.6	11
29	Constructing a tunable defect structure in TiO_2 for photocatalytic nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 334-341.	5.2	73
30	Ga_2O_3 solar-blind position-sensitive detectors. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	26
31	Stable Yellow Light-Emitting Devices Based on Ternary Copper Halides with Broadband Emissive Self-Trapped Excitons. <i>ACS Nano</i> , 2020, 14, 4475-4486.	7.3	199
32	Efficient chemiluminescent ZnO nanoparticles for cellular imaging. <i>Journal of Luminescence</i> , 2020, 221, 117111.	1.5	25
33	Solution-processed one-dimensional CsCu_2I_3 nanowires for polarization-sensitive and flexible ultraviolet photodetectors. <i>Materials Horizons</i> , 2020, 7, 1613-1622.	6.4	120
34	Solar-blind photodetectors based on MXenes/ Ga_2O_3 Schottky junctions. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 484001.	1.3	44
35	3D Solar-blind Ga_2O_3 Photodetector Array Realized Via Origami Method. <i>Advanced Functional Materials</i> , 2019, 29, 1906040.	7.8	120
36	Broadband photodetection of 2D $\text{Bi}_2\text{O}_2\text{Se}/\text{MoSe}_2$ heterostructure. <i>Journal of Materials Science</i> , 2019, 54, 14742-14751.	1.7	46

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37	Hybrid MoS ₂ -gap-mode metasurface photodetectors. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 374001.	1.3	11
38	Crystallographic-orientation dependent Li ion migration and reactions in layered MoSe ₂ . <i>2D Materials</i> , 2019, 6, 035027.	2.0	13
39	Ultrastable Lead-Free Double Perovskite Photodetectors with Imaging Capability. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900188.	1.9	62
40	Room Temperature Electrically Driven Ultraviolet Plasmonic Lasers. <i>Advanced Optical Materials</i> , 2019, 7, 1801681.	3.6	27
41	Donor-Acceptor Cyanocarbazole-Based Supramolecular Photocatalysts for Visible-Light-Driven H ₂ Production. <i>ChemSusChem</i> , 2019, 12, 5070-5074.	3.6	9
42	Ga ₂ O ₃ photodetector arrays for solar-blind imaging. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2557-2562.	2.7	97
43	Diamond based photodetectors for solar-blind communication. <i>Optics Express</i> , 2019, 27, 29962.	1.7	65
44	Self-powered NiO@ZnO-nanowire-heterojunction ultraviolet micro-photodetectors. <i>Optical Materials Express</i> , 2019, 9, 2775.	1.6	24
45	Electrically driven lasers from van der Waals heterostructures. <i>Nanoscale</i> , 2018, 10, 9602-9607.	2.8	28
46	Efficient phosphorescence from synthetic diamonds. <i>Carbon</i> , 2018, 130, 384-389.	5.4	20
47	Mechanical Properties of 2D Materials Studied by In Situ Microscopy Techniques. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701246.	1.9	71
48	Light-Emitting Devices Modulated by Multilevel Resistive Memories. <i>ACS Photonics</i> , 2018, 5, 1006-1011.	3.2	18
49	Carbon-ZnO alternating quantum dot chains: electrostatic adsorption assembly and white light-emitting device application. <i>Nanoscale</i> , 2018, 10, 7155-7162.	2.8	38
50	Silica coating enhances the stability of inorganic perovskite nanocrystals for efficient and stable down-conversion in white light-emitting devices. <i>Nanoscale</i> , 2018, 10, 20131-20139.	2.8	147
51	Phonon-Assisted Photoluminescence Up-Conversion of Silicon-Vacancy Centers in Diamond. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6656-6661.	2.1	21
52	Electrically pumped Fabry-Perot microlasers from single Ga-doped ZnO microbelt based heterostructure diodes. <i>Nanoscale</i> , 2018, 10, 18774-18785.	2.8	45
53	Diamond-Based All-Carbon Photodetectors for Solar-Blind Imaging. <i>Advanced Optical Materials</i> , 2018, 6, 1800068.	3.6	117
54	Optoelectronic Diamond: Growth, Properties, and Photodetection Applications. <i>Advanced Optical Materials</i> , 2018, 6, 1800359.	3.6	91

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55	1D Piezoelectric Material Based Nanogenerators: Methods, Materials and Property Optimization. <i>Nanomaterials</i> , 2018, 8, 188.	1.9	46
56	Self-powered diamond/ $\text{In}^{2-}\text{Ga}^{2-}\text{O}^{3-}$ photodetectors for solar-blind imaging. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5727-5732.	2.7	270
57	ZnO-based deep-ultraviolet light-emitting devices. <i>Chinese Physics B</i> , 2017, 26, 047703.	0.7	37
58	A new temperature treatment method of near-space crew capsule using phase change material. <i>Science and Technology for the Built Environment</i> , 2017, 23, 421-429.	0.8	0
59	Piezophototronic Effect Enhanced Electrically Pumped Lasing. <i>Advanced Materials</i> , 2017, 29, 1602832.	11.1	35
60	Transparent ultraviolet photovoltaic cells. <i>Optics Letters</i> , 2016, 41, 685.	1.7	11
61	Multiframe Superresolution Reconstruction Based on Self-Learning Method. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-12.	0.6	1
62	Intense electroluminescence from ZnO nanowires. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5292-5296.	2.7	14
63	Improved performance of ZnO light-emitting devices by introducing a hole-injection layer. <i>Optics Express</i> , 2014, 22, 17524.	1.7	14
64	Pure ultraviolet emission from ZnO nanowire-based p-n heterostructures. <i>Optics Letters</i> , 2014, 39, 422.	1.7	30
65	Intense emission from ZnO nanocolumn Schottky diodes. <i>Nanoscale</i> , 2013, 5, 7746.	2.8	20
66	Surface plasmon enhanced electrically pumped random lasers. <i>Nanoscale</i> , 2013, 5, 513-517.	2.8	57
67	Self-powered spectrum-selective photodetectors fabricated from n-ZnO/p-NiO core-shell nanowire arrays. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4445.	2.7	134
68	Electrically pumped random lasers fabricated from ZnO nanowire arrays. <i>Nanoscale</i> , 2012, 4, 2843.	2.8	66
69	Low-Threshold Electrically Pumped Random Lasers. <i>Advanced Materials</i> , 2010, 22, 1877-1881.	11.1	124
70	Ultralow-Threshold Laser Realized in Zinc Oxide. <i>Advanced Materials</i> , 2009, 21, 1613-1617.	11.1	205