Xun Yang

List of Publications by Year
in descending order

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	Self-powered diamond/Î²-Ga₂O₃ photodetectors for solar-blind imaging. Journal of Materials Chemistry C, 2018, 6, 5727-5732.	2.7	270
2	Ultralowâ€Threshold Laser Realized in Zinc Oxide. Advanced Materials, 2009, 21, 1613-1617.	11.1	205
3	Stable Yellow Light-Emitting Devices Based on Ternary Copper Halides with Broadband Emissive Self-Trapped Excitons. ACS Nano, 2020, 14, 4475-4486.	7.3	199
4	Highly stable and spectrum-selective ultraviolet photodetectors based on lead-free copper-based perovskites. Materials Horizons, 2020, 7, 530-540.	6.4	164
5	Silica coating enhances the stability of inorganic perovskite nanocrystals for efficient and stable down-conversion in white light-emitting devices. Nanoscale, 2018, 10, 20131-20139.	2.8	147
6	In Situ Fabrication of PdSe₂/GaN Schottky Junction for Polarization-Sensitive Ultraviolet Photodetection with High Dichroic Ratio. ACS Nano, 2022, 16, 5545-5555.	7.3	139
7	Self-powered spectrum-selective photodetectors fabricated from n-ZnO/p-NiO coreâ€“shell nanowire arrays. Journal of Materials Chemistry C, 2013, 1, 4445.	2.7	134
8	Lowâ€Threshold Electrically Pumped Random Lasers. Advanced Materials, 2010, 22, 1877-1881.	11.1	124
9	3D Solarâ€Blind Ga₂O₃ Photodetector Array Realized Via Origami Method. Advanced Functional Materials, 2019, 29, 1906040.	7.8	120
10	Solution-processed one-dimensional CsCu₂I₃ nanowires for polarization-sensitive and flexible ultraviolet photodetectors. Materials Horizons, 2020, 7, 1613-1622.	6.4	120
11	Diamondâ€Based Allâ€Carbon Photodetectors for Solarâ€Blind Imaging. Advanced Optical Materials, 2018, 6, 1800068.	3.6	117
12	Ga₂O₃ photodetector arrays for solar-blind imaging. Journal of Materials Chemistry C, 2019, 7, 2557-2562.	2.7	97
13	Optoelectronic Diamond: Growth, Properties, and Photodetection Applications. Advanced Optical Materials, 2018, 6, 1800359.	3.6	91
14	Constructing a tunable defect structure in TiO₂ for photocatalytic nitrogen fixation. Journal of Materials Chemistry A, 2020, 8, 334-341.	5.2	73
15	Mechanical Properties of 2D Materials Studied by In Situ Microscopy Techniques. Advanced Materials Interfaces, 2018, 5, 1701246.	1.9	71
16	Nanodiamonds: Synthesis, properties, and applications in nanomedicine. Materials and Design, 2021, 210, 110091.	3.3	68
17	Electrically pumped random lasers fabricated from ZnO nanowire arrays. Nanoscale, 2012, 4, 2843.	2.8	66
18	Diamond based photodetectors for solar-blind communication. Optics Express, 2019, 27, 29962.	1.7	65

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19	Ultrastable Leadâ€Free Double Perovskite Photodetectors with Imaging Capability. Advanced Materials Interfaces, 2019, 6, 1900188.	1.9	62
20	Surface plasmon enhanced electrically pumped random lasers. Nanoscale, 2013, 5, 513-517.	2.8	57
21	Flexible and Biocompatible Physical Unclonable Function Antiâ€Counterfeiting Label. Advanced Functional Materials, 2021, 31, 2102108.	7.8	52
22	1D Piezoelectric Material Based Nanogenerators: Methods, Materials and Property Optimization. Nanomaterials, 2018, 8, 188.	1.9	46
23	Broadband photodetection of 2D Bi2O2Seâ€“MoSe2 heterostructure. Journal of Materials Science, 2019, 54, 14742-14751.	1.7	46
24	Recent advances toward environment-friendly photodetectors based on lead-free metal halide perovskites and perovskite derivatives. Materials Horizons, 2021, 8, 1367-1389.	6.4	46
25	Electrically pumped Fabryâ€“Perot microlasers from single Ga-doped ZnO microbelt based heterostructure diodes. Nanoscale, 2018, 10, 18774-18785.	2.8	45
26	Bandgap engineering of Gallium oxides by crystalline disorder. Materials Today Physics, 2021, 18, 100369.	2.9	44
27	Solar-blind photodetectors based on MXenesâ€“Î²-Ga₂O₃ Schottky junctions. Journal Physics D: Applied Physics, 2020, 53, 484001.	1.3	44
28	Ultra-sensitive flexible Ga2O3 solar-blind photodetector array realized via ultra-thin absorbing medium. Nano Research, 2022, 15, 3711-3719.	5.8	44
29	Solar-blind imaging based on 2-inch polycrystalline diamond photodetector linear array. Carbon, 2021, 173, 427-432.	5.4	39
30	Carbon-ZnO alternating quantum dot chains: electrostatic adsorption assembly and white light-emitting device application. Nanoscale, 2018, 10, 7155-7162.	2.8	38
31	ZnO-based deep-ultraviolet light-emitting devices. Chinese Physics B, 2017, 26, 047703.	0.7	37
32	Piezophototronicâ€Effectâ€Enhanced Electrically Pumped Lasing. Advanced Materials, 2017, 29, 1602832.	11.1	35
33	Pure ultraviolet emission from ZnO nanowire-based p-n heterostructures. Optics Letters, 2014, 39, 422.	1.7	30
34	Electrically driven lasers from van der Waals heterostructures. Nanoscale, 2018, 10, 9602-9607.	2.8	28
35	Room Temperature Electrically Driven Ultraviolet Plasmonic Lasers. Advanced Optical Materials, 2019, 7, 1801681.	3.6	27
36	Ga₂O₃-Based Solar-Blind Position-Sensitive Detector for Noncontact Measurement and Optoelectronic Demodulation. Nano Letters, 2022, 22, 4888-4896.	4.5	27

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37	Ga2O3 solar-blind position-sensitive detectors. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	26
38	Pressure-induced photoluminescence enhancement and ambient retention in confined carbon dots. Nano Research, 2022, 15, 2545-2551.	5.8	26
39	High-performance solar-blind photodetector arrays constructed from Sn-doped Ga2O3 microwires via patterned electrodes. Nano Research, 2022, 15, 7631-7638.	5.8	26
40	Pressure-Induced Ultra-Broad-Band Emission of a Cs₂AgBiBr₆ Perovskite Thin Film. Journal of Physical Chemistry C, 2020, 124, 1732-1738.	1.5	25
41	Efficient chemiluminescent ZnO nanoparticles for cellular imaging. Journal of Luminescence, 2020, 221, 117111.	1.5	25
42	High-performance Î²-Ga₂O₃-based solar-blind photodetector with ultralow dark current and fast photoresponse for deep-ultraviolet communication. Optical Materials Express, 2022, 12, 327.	1.6	25
43	Self-powered NiO@ZnO-nanowire-heterojunction ultraviolet micro-photodetectors. Optical Materials Express, 2019, 9, 2775.	1.6	24
44	Phonon-Assisted Photoluminescence Up-Conversion of Silicon-Vacancy Centers in Diamond. Journal of Physical Chemistry Letters, 2018, 9, 6656-6661.	2.1	21
45	Ultrasensitive fully transparent amorphous Ga₂O₃ solar-blind deep-ultraviolet photodetector for corona discharge detection. Journal Physics D: Applied Physics, 2022, 55, 305104.	1.3	21
46	Intense emission from ZnO nanocolumn Schottky diodes. Nanoscale, 2013, 5, 7746.	2.8	20
47	Efficient phosphorescence from synthetic diamonds. Carbon, 2018, 130, 384-389.	5.4	20
48	Degradation and mechanism of microcystin-LR by PbCrO4 nanorods driven by visible light. Chemosphere, 2020, 239, 124739.	4.2	19
49	Ga₂O₃based multilevel solar-blind photomemory array with logic, arithmetic, and image storage functions. Materials Horizons, 2021, 8, 3368-3376.	6.4	19
50	Fabry-Perot interference and piezo-phototronic effect enhanced flexible MoS2 photodetector. Nano Research, 2022, 15, 4395-4402.	5.8	19
51	Light-Emitting Devices Modulated by Multilevel Resistive Memories. ACS Photonics, 2018, 5, 1006-1011.	3.2	18
52	Humidity Sensors Realized via Negative Photoconductivity Effect in Nanodiamonds. Journal of Physical Chemistry Letters, 2021, 12, 4079-4084.	2.1	18
53	2D Ultrawide Bandgap Semiconductors: Odyssey and Challenges. Small Methods, 2022, 6, e2101348.	4.6	18
54	Improved performance of ZnO light-emitting devices by introducing a hole-injection layer. Optics Express, 2014, 22, 17524.	1.7	14

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55	Intense electroluminescence from ZnO nanowires. Journal of Materials Chemistry C, 2015, 3, 5292-5296.	2.7	14
56	Computational Prediction of a Novel Superhard sp ³ Trigonal Carbon Allotrope with Bandgap Larger than Diamond. Chinese Physics Letters, 2021, 38, 076101.	1.3	14
57	Wafer-sized polycrystalline diamond photodetector planar arrays for solar-blind imaging. Journal of Materials Chemistry C, 2022, 10, 6488-6496.	2.7	14
58	Crystallographic-orientation dependent Li ion migration and reactions in layered MoSe ₂. 2D Materials, 2019, 6, 035027.	2.0	13
59	Transparent ultraviolet photovoltaic cells. Optics Letters, 2016, 41, 685.	1.7	11
60	Hybrid MoS2-gap-mode metasurface photodetectors. Journal Physics D: Applied Physics, 2019, 52, 374001.	1.3	11
61	Construction of Defective Zincâ€“Cadmiumâ€“Sulfur Nanorods for Visibleâ€Lightâ€Driven Hydrogen Evolution Without the Use of Sacrificial Agents or Cocatalysts. ChemSusChem, 2020, 13, 756-762.	3.6	11
62	Zero-biased solar-blind photodetectors based on AlN/Î²-Ga₂O₃ heterojunctions. Semiconductor Science and Technology, 2021, 36, 065007.	1.0	11
63	Solarâ€Blind Positionâ€Sensitive Detectors Fabricated from Î²â€Ga₂O₃/Polycrystalline Diamond Heterojunctions. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100347.	1.2	11
64	Donorâ€“Acceptor Cyanocarbazoleâ€Based Supramolecular Photocatalysts for Visibleâ€Lightâ€Driven H₂ Production. ChemSusChem, 2019, 12, 5070-5074.	3.6	9
65	Electron-hole plasma Fabry-Perot lasing in a Ga-incorporated ZnO microbelt via Ag nanoparticle deposition. Optics Express, 2022, 30, 740.	1.7	3
66	Revealing the Anisotropic Structural and Electrical Stabilities of 2D SnSe under Harsh Environments: Alkaline Environment and Mechanical Strain. ACS Applied Materials & Interfaces, 2022, 14, 9824-9832.	4.0	3
67	Multiframe Superresolution Reconstruction Based on Self-Learning Method. Mathematical Problems in Engineering, 2015, 2015, 1-12.	0.6	1
68	Association of APEX1 and XRCC1 Gene Polymorphisms With HIV-1 Infection Susceptibility and AIDS Progression in a Northern Chinese MSM Population. Frontiers in Genetics, 2022, 13, 861355.	1.1	1
69	A new temperature treatment method of near-space crew capsule using phase change material. Science and Technology for the Built Environment, 2017, 23, 421-429.	0.8	0
70	Pentaheptite diamond: a new carbon allotrope. Journal of Physics Condensed Matter, 2022, 34, 184003.	0.7	0