

# Peigang Li

## List of Publications by Year in descending order

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55  
papers

2,752  
citations

236925

25  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1904  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-sensitive, self-powered deep UV photodetector based on p-CuSCN/n-Ga <sub>2</sub> O <sub>3</sub> thin film heterojunction. Optics Communications, 2022, 504, 127483.	2.1	22
2	Ti <sub>3</sub> C <sub>2</sub> /Îµ-Ga <sub>2</sub> O <sub>3</sub> Schottky Self-Powered Solar-Blind Photodetector With Robust Responsivity. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-8.	2.9	15
3	Enhancement-mode normally-off Î²-Ga <sub>2</sub> O <sub>3</sub> ;Si metal-semiconductor field-effect deep-ultraviolet phototransistor. Semiconductor Science and Technology, 2022, 37, 015001.	2.0	13
4	Simply equipped Îµ-Ga <sub>2</sub> O <sub>3</sub> film/ZnO nanoparticle heterojunction for self-powered deep UV sensor. Physica Scripta, 2022, 97, 015808.	2.5	9
5	Enhancing the self-powered performance in VOx/Ga <sub>2</sub> O <sub>3</sub> heterojunction ultraviolet photodetector by hole-transport engineering. Journal of Alloys and Compounds, 2022, 902, 163801.	5.5	17
6	Oxygen vacancies modulating self-powered photoresponse in PEDOT:PSS/Îµ-Ga <sub>2</sub> O <sub>3</sub> heterojunction by trapping effect. Science China Technological Sciences, 2022, 65, 704-712.	4.0	20
7	A self-powered deep-ultraviolet photodetector based on a hybrid organic-inorganic p-P3HT/n-Ga <sub>2</sub> O <sub>3</sub> heterostructure. Physica Scripta, 2022, 97, 075804.	2.5	2
8	Low MOCVD growth temperature controlled phase transition of Ga <sub>2</sub> O <sub>3</sub> films for ultraviolet sensing. Vacuum, 2022, 203, 111270.	3.5	13
9	Ultrahigh-performance planar Î²-Ga <sub>2</sub> O <sub>3</sub> solar-blind Schottky photodiode detectors. Science China Technological Sciences, 2021, 64, 59-64.	4.0	32
10	High sensitive and stable self-powered solar-blind photodetector based on solution-processed all inorganic CuMO <sub>2</sub> /Ga <sub>2</sub> O <sub>3</sub> pn heterojunction. Materials Today Physics, 2021, 17, 100335.	6.0	67
11	Reinforcement of double built-in electric fields in spiro-MeOTAD/Ga <sub>2</sub> O <sub>3</sub> /Si p-i-n structure for a high-sensitivity solar-blind UV photovoltaic detector. Journal of Materials Chemistry C, 2021, 9, 14788-14798.	5.5	21
12	Enhanced deep-ultraviolet sensing by an all-inorganic p-PZT/n-Ga <sub>2</sub> O <sub>3</sub> thin-film heterojunction. Journal Physics D: Applied Physics, 2021, 54, 195104.	2.8	11
13	Photoresponsive characteristics of EFG-grown iron-doped (100) Ga <sub>2</sub> O <sub>3</sub> substrate with low dark current. Physica Scripta, 2021, 96, 065801.	2.5	8
14	Fabrication of a poly(N-vinyl carbazole)/Îµ-Ga <sub>2</sub> O <sub>3</sub> organic-inorganic heterojunction diode for solar-blind sensing applications. Journal Physics D: Applied Physics, 2021, 54, 215104.	2.8	10
15	Electrical Characterizations of Planar Ga <sub>2</sub> O <sub>3</sub> Schottky Barrier Diodes. Micromachines, 2021, 12, 259.	2.9	12
16	Epitaxial Growth and Solar-Blind Photoelectric Characteristic of Ga <sub>2</sub> O <sub>3</sub> Film on Various Oriented Sapphire Substrates by Plasma-Enhanced Chemical Vapor Deposition. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100076.	1.8	6
17	A study for the influences of temperatures on ZnGa <sub>2</sub> O <sub>4</sub> films and solar-blind sensing performances. Journal Physics D: Applied Physics, 2021, 54, 405107.	2.8	12
18	Determination of type-Î³ band alignment Î²-Ga <sub>2</sub> O <sub>3</sub> /GaAs heterojunction interface by x-ray photoelectron spectroscopy. Journal of Applied Physics, 2021, 130, .	2.5	7

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19	A broadband UV-visible photodetector based on a Ga <sub>2</sub> O <sub>3</sub> /BFO heterojunction. <i>Physica Scripta</i> , 2021, 96, 125823.	2.5	22
20	Oxygen vacancies modulating the photodetector performances in $\mu$ -Ga <sub>2</sub> O <sub>3</sub> thin films. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5437-5444.	5.5	66
21	Broadband Ultraviolet Self-Powered Photodetector Constructed on Exfoliated $\text{Ga}_2\text{O}_3/\text{CuI}$ Core-Shell Microwire Heterojunction with Superior Reliability. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 447-453.	4.6	90
22	A Spiro-MeOTAD/Ga <sub>2</sub> O <sub>3</sub> /Si p-i-n Junction Featuring Enhanced Self-Powered Solar-Blind Sensing via Balancing Absorption of Photons and Separation of Photogenerated Carriers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 57619-57628.	8.0	19
23	A study on the effects of mixed organic cations on the structure and properties in lead halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3105-3111.	2.8	19
24	A self-powered solar-blind photodetector with large $V_{oc}$ enhancing performance based on the PEDOT:PSS/Ga <sub>2</sub> O <sub>3</sub> organic-inorganic hybrid heterojunction. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1292-1300.	5.5	94
25	Fe doping-stabilized $\beta$ -Ga <sub>2</sub> O <sub>3</sub> thin films with a high room temperature saturation magnetic moment. <i>Journal of Materials Chemistry C</i> , 2020, 8, 536-542.	5.5	28
26	Comparison of optoelectrical characteristics between Schottky and Ohmic contacts to $\beta$ -Ga <sub>2</sub> O <sub>3</sub> thin film. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 085105.	2.8	40
27	Fabrication and characterization of Mg-doped $\mu$ -Ga <sub>2</sub> O <sub>3</sub> solar-blind photodetector. <i>Vacuum</i> , 2020, 177, 109425.	3.5	33
28	All-Oxide NiO/Ga <sub>2</sub> O <sub>3</sub> p-n Junction for Self-Powered UV Photodetector. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2032-2038.	4.3	135
29	Phase junction enhanced photocatalytic activity of Ga <sub>2</sub> O <sub>3</sub> nanorod arrays on flexible glass fiber fabric. <i>RSC Advances</i> , 2020, 10, 11499-11506.	3.6	10
30	Construction of a $\beta$ -Ga <sub>2</sub> O <sub>3</sub> -based metal-oxide-semiconductor-structured photodiode for high-performance dual-mode solar-blind detector applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5071-5081.	5.5	58
31	High sensitivity and fast response self-powered solar-blind ultraviolet photodetector with a $\beta$ -Ga <sub>2</sub> O <sub>3</sub> /spiro-MeOTAD p-n heterojunction. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4502-4509.	5.5	69
32	Fabrication of $\mu$ -Ga <sub>2</sub> O <sub>3</sub> solar-blind photodetector with symmetric interdigital Schottky contacts responding to low intensity light signal. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 295109.	2.8	43
33	X-ray photoelectron spectroscopy study for band alignments of BaTiO <sub>3</sub> /Ga <sub>2</sub> O <sub>3</sub> and In <sub>2</sub> O <sub>3</sub> /Ga <sub>2</sub> O <sub>3</sub> heterostructures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	2.1	8
34	Self-Powered $\beta$ -Ga <sub>2</sub> O <sub>3</sub> Solar-Blind Photodetector Based on the Planar Au/Ga <sub>2</sub> O <sub>3</sub> Schottky Junction. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 065011.	1.8	28
35	Energy-band alignments at ZnO/Ga <sub>2</sub> O <sub>3</sub> and Ta <sub>2</sub> O <sub>5</sub> /Ga <sub>2</sub> O <sub>3</sub> heterointerfaces by X-ray photoelectron spectroscopy and electron affinity rule. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	38
36	Rectifying Effect of the Sr <sub>3</sub> Al <sub>2</sub> O <sub>6</sub> /Ga <sub>2</sub> O <sub>3</sub> Heterojunction. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900570.	1.8	8

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37	Ultrasensitive, Superhigh Signal-to-Noise Ratio, Self-Powered Solar-Blind Photodetector Based on $\text{In-Ga}_2\text{O}_3/\text{p-CuSCN}$ Core-Shell Microwire Heterojunction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35105-35114.	8.0	161
38	Preliminary study for the effects of temperatures on optoelectrical properties of $\text{In}_2\text{Ga}_2\text{O}_3$ thin films. <i>Vacuum</i> , 2019, 166, 79-83.	3.5	25
39	Band alignments of $\text{In}_2\text{Ga}_2\text{O}_3$ with $\text{MgO}$ , $\text{Al}_2\text{O}_3$ and $\text{MgAl}_2\text{O}_4$ measured by x-ray photoelectron spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 295104.	2.8	28
40	$\text{In}_2\text{Ga}_2\text{O}_3$ nanorod arrays with high light-to-electron conversion for solar-blind deep ultraviolet photodetection. <i>RSC Advances</i> , 2019, 9, 6064-6069.	3.6	23
41	A high-performance ultraviolet solar-blind photodetector based on a $\text{In}_2\text{Ga}_2\text{O}_3$ Schottky photodiode. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13920-13929.	5.5	88
42	Self-Powered Ultraviolet Photodetector with Superhigh Photoresponsivity (3.05 A/W) Based on the $\text{GaN/Sn:Ga}_2\text{O}_3$ pn Junction. <i>ACS Nano</i> , 2018, 12, 12827-12835.	14.6	405
43	Optimizing the performance of a $\text{In}_2\text{Ga}_2\text{O}_3$ solar-blind UV photodetector by compromising between photoabsorption and electric field distribution. <i>Optical Materials Express</i> , 2018, 8, 2918.	3.0	47
44	Superconductivity in $\text{Ca}_0.5\text{La}_0.5\text{FBiSe}_2$ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 305-309.	1.8	7
45	Zero-Power-Consumption Solar-Blind Photodetector Based on $\text{In}_2\text{Ga}_2\text{O}_3/\text{NSTO}$ Heterojunction. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 1619-1628.	8.0	308
46	Construction of $\text{GaN/Ga}_2\text{O}_3$ pn junction for an extremely high responsivity self-powered UV photodetector. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10562-10570.	5.5	234
47	Decrease of oxygen vacancy by Zn-doped for improving solar-blind photoelectric performance in $\text{In}_2\text{Ga}_2\text{O}_3$ thin films. <i>Electronic Materials Letters</i> , 2017, 13, 483-488.	2.2	53
48	Fast-response solar-blind ultraviolet photodetector with a graphene/ $\text{In}_2\text{Ga}_2\text{O}_3$ /graphene hybrid structure. <i>Journal of Alloys and Compounds</i> , 2017, 692, 634-638.	5.5	84
49	Superb Electrically Conductive Graphene Fibers via Doping Strategy. <i>Advanced Materials</i> , 2016, 28, 7941-7947.	21.0	140
50	Characterization of hexagonal $\text{Ga}_{1.8}\text{Sn}_{0.2}\text{O}_3$ thin films for solar-blind ultraviolet applications. <i>Optical Materials</i> , 2016, 62, 651-654.	3.6	25
51	Large and anisotropic linear magnetoresistance in bulk stoichiometric $\text{Cd}_3\text{As}_2$ crystals. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1-6.	5.1	4
52	Composition tuning of rectifying polarity of colloidal $\text{CdS}_{1-x}\text{Se}_x$ nanocrystal-based devices. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	1
53	The size effect on transport properties of colossal magnetoresistance materials $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ . <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2008, 51, 251-257.	0.2	2
54	Preparation and electromagnetic characteristics of silica coated $\text{Fe-Ni-Mo}$ alloy flakes. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 481-486.	2.2	12

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55	Factors affecting the superconductivity in the process of depositing Nd <sub>1.85</sub> Ce <sub>0.15</sub> CuO <sub>4</sub> by the pulsed electron deposition technique. Science in China Series G: Physics, Mechanics and Astronomy, 2007, 50, 747-752.	0.2	0