Peigang Li

List of Publications by Year
in descending order

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	Self-Powered Ultraviolet Photodetector with Superhigh Photoresponsivity (3.05 A/W) Based on the GaN/Sn:Ga₂O₃ pn Junction. ACS Nano, 2018, 12, 12827-12835.	14.6	405
2	Zero-Power-Consumption Solar-Blind Photodetector Based on Î²-Ga₂O₃/NSTO Heterojunction. ACS Applied Materials & Interfaces, 2017, 9, 1619-1628.	8.0	308
3	Construction of GaN/Ga₂O₃ pâ€“n junction for an extremely high responsivity self-powered UV photodetector. Journal of Materials Chemistry C, 2017, 5, 10562-10570.	5.5	234
4	Ultrasensitive, Superhigh Signal-to-Noise Ratio, Self-Powered Solar-Blind Photodetector Based on <i>n</i>-Ga₂O₃/<i>p</i>-CuSCN Coreâ€“Shell Microwire Heterojunction. ACS Applied Materials & Interfaces, 2019, 11, 35105-35114.	8.0	161
5	Superb Electrically Conductive Graphene Fibers via Doping Strategy. Advanced Materials, 2016, 28, 7941-7947.	21.0	140
6	All-Oxide NiO/Ga₂O₃ pâ€“n Junction for Self-Powered UV Photodetector. ACS Applied Electronic Materials, 2020, 2, 2032-2038.	4.3	135
7	A self-powered solar-blind photodetector with large<i>V</i>_{oc}enhancing performance based on the PEDOT:PSS/Ga₂O₃organicâ€“inorganic hybrid heterojunction. Journal of Materials Chemistry C, 2020, 8, 1292-1300.	5.5	94
8	Broadband Ultraviolet Self-Powered Photodetector Constructed on Exfoliated <i>Î²-</i>Ga₂O₃/CuI Coreâ€“Shell Microwire Heterojunction with Superior Reliability. Journal of Physical Chemistry Letters, 2021, 12, 447-453.	4.6	90
9	A high-performance ultraviolet solar-blind photodetector based on a Î²-Ga₂O₃ Schottky photodiode. Journal of Materials Chemistry C, 2019, 7, 13920-13929.	5.5	88
10	Fast-response solar-blind ultraviolet photodetector with a graphene/Î²-Ga2O3/graphene hybrid structure. Journal of Alloys and Compounds, 2017, 692, 634-638.	5.5	84
11	High sensitivity and fast response self-powered solar-blind ultraviolet photodetector with a Î²-Ga₂O₃/spiro-MeOTAD pâ€“n heterojunction. Journal of Materials Chemistry C, 2020, 8, 4502-4509.	5.5	69
12	High sensitive and stable self-powered solar-blind photodetector based on solution-processed all inorganic CuMO2/Ga2O3 pn heterojunction. Materials Today Physics, 2021, 17, 100335.	6.0	67
13	Oxygen vacancies modulating the photodetector performances in Îµ-Ga₂O₃ thin films. Journal of Materials Chemistry C, 2021, 9, 5437-5444.	5.5	66
14	Construction of a Î²-Ga₂O₃-based metalâ€“oxideâ€“semiconductor-structured photodiode for high-performance dual-mode solar-blind detector applications. Journal of Materials Chemistry C, 2020, 8, 5071-5081.	5.5	58
15	Decrease of oxygen vacancy by Zn-doped for improving solar-blind photoelectric performance in Î²-Ga2O3 thin films. Electronic Materials Letters, 2017, 13, 483-488.	2.2	53
16	Optimizing the performance of a Î²-Ga₂O₃ solar-blind UV photodetector by compromising between photoabsorption and electric field distribution. Optical Materials Express, 2018, 8, 2918.	3.0	47
17	Fabrication of Îµ-Ga₂O₃ solar-blind photodetector with symmetric interdigital Schottky contacts responding to low intensity light signal. Journal Physics D: Applied Physics, 2020, 53, 295109.	2.8	43
18	Comparison of optoelectrical characteristics between Schottky and Ohmic contacts to <i>Î²</i>-Ga₂O₃ thin film. Journal Physics D: Applied Physics, 2020, 53, 085105.	2.8	40

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19	Energy-band alignments at ZnO/Ga2O3 and Ta2O5/Ga2O3 heterointerfaces by X-ray photoelectron spectroscopy and electron affinity rule. Journal of Applied Physics, 2019, 126, .	2.5	38
20	Fabrication and characterization of Mg-doped Îµ-Ga2O3 solar-blind photodetector. Vacuum, 2020, 177, 109425.	3.5	33
21	Ultrahigh-performance planar Î²-Ga2O3 solar-blind Schottky photodiode detectors. Science China Technological Sciences, 2021, 64, 59-64.	4.0	32
22	Band alignments of <i>Î²</i>-Ga₂O₃ with MgO, Al₂O₃ and MgAl₂O₄ measured by x-ray photoelectron spectroscopy. Journal Physics D: Applied Physics, 2019, 52, 295104.	2.8	28
23	Fe doping-stabilized Î³-Ga₂O₃thin films with a high room temperature saturation magnetic moment. Journal of Materials Chemistry C, 2020, 8, 536-542.	5.5	28
24	Self-Powered <i>Î²</i>-Ga₂O₃ Solar-Blind Photodetector Based on the Planar Au/Ga₂O₃ Schottky Junction. ECS Journal of Solid State Science and Technology, 2020, 9, 065011.	1.8	28
25	Characterization of hexagonal É›-Ga1.8Sn0.2O3 thin films for solar-blind ultraviolet applications. Optical Materials, 2016, 62, 651-654.	3.6	25
26	Preliminary study for the effects of temperatures on optoelectrical properties of Î²-Ga2O3 thin films. Vacuum, 2019, 166, 79-83.	3.5	25
27	Î²-Ga₂O₃ nanorod arrays with high light-to-electron conversion for solar-blind deep ultraviolet photodetection. RSC Advances, 2019, 9, 6064-6069.	3.6	23
28	A broadband UV-visible photodetector based on a Ga₂O₃/BFO heterojunction. Physica Scripta, 2021, 96, 125823.	2.5	22
29	High-sensitive, self-powered deep UV photodetector based on p-CuSCN/n-Ga2O3 thin film heterojunction. Optics Communications, 2022, 504, 127483.	2.1	22
30	Reinforcement of double built-in electric fields in spiro-MeOTAD/Ga₂O₃/Si pâ€"iâ€"n structure for a high-sensitivity solar-blind UV photovoltaic detector. Journal of Materials Chemistry C, 2021, 9, 14788-14798.	5.5	21
31	Oxygen vacancies modulating self-powered photoresponse in PEDOT:PSS/Îµ-Ga2O3 heterojunction by trapping effect. Science China Technological Sciences, 2022, 65, 704-712.	4.0	20
32	A study on the effects of mixed organic cations on the structure and properties in lead halide perovskites. Physical Chemistry Chemical Physics, 2020, 22, 3105-3111.	2.8	19
33	A Spiro-MeOTAD/Ga₂O₃/Si p-i-n Junction Featuring Enhanced Self-Powered Solar-Blind Sensing via Balancing Absorption of Photons and Separation of Photogenerated Carriers. ACS Applied Materials & Interfaces, 2021, 13, 57619-57628.	8.0	19
34	Enhancing the self-powered performance in VOx/Ga2O3 heterojunction ultraviolet photodetector by hole-transport engineering. Journal of Alloys and Compounds, 2022, 902, 163801.	5.5	17
35	Ti₃C₂/Îµ-Ga₂O₃Schottky Self-Powered Solar-Blind Photodetector With Robust Responsivity. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-8.	2.9	15
36	Enhancement-mode normally-off Î²-Ga₂O₃:Si metal-semiconductor field-effect deep-ultraviolet phototransistor. Semiconductor Science and Technology, 2022, 37, 015001.	2.0	13

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37	Low MOCVD growth temperature controlled phase transition of Ga2O3 films for ultraviolet sensing. Vacuum, 2022, 203, 111270.	3.5	13
38	Preparation and electromagnetic characteristics of silica coated Feâ€“Niâ€“Mo alloy flakes. Journal of Materials Science: Materials in Electronics, 2007, 18, 481-486.	2.2	12
39	Electrical Characterizations of Planar Ga2O3 Schottky Barrier Diodes. Micromachines, 2021, 12, 259.	2.9	12
40	A study for the influences of temperatures on ZnGa₂O₄ films and solar-blind sensing performances. Journal Physics D: Applied Physics, 2021, 54, 405107.	2.8	12
41	Enhanced deep-ultraviolet sensing by an all-inorganic p-PZT/n-Ga₂O₃ thin-film heterojunction. Journal Physics D: Applied Physics, 2021, 54, 195104.	2.8	11
42	Phase junction enhanced photocatalytic activity of Ga₂O₃ nanorod arrays on flexible glass fiber fabric. RSC Advances, 2020, 10, 11499-11506.	3.6	10
43	Fabrication of a poly(N-vinyl carbazole)/Îµ-Ga₂O₃ organicâ€“inorganic heterojunction diode for solar-blind sensing applications. Journal Physics D: Applied Physics, 2021, 54, 215104.	2.8	10
44	Simply equipped Îµ-Ga₂O₃ film/ZnO nanoparticle heterojunction for self-powered deep UV sensor. Physica Scripta, 2022, 97, 015808.	2.5	9
45	Rectifying Effect of the Sr₃Al₂O₆/Ga₂O₃ Heterojunction. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900570.	1.8	8
46	Photoresponsive characteristics of EFG-grown iron-doped (100) Ga₂O₃ substrate with low dark current. Physica Scripta, 2021, 96, 065801.	2.5	8
47	X-ray photoelectron spectroscopy study for band alignments of BaTiO3/Ga2O3 and In2O3/Ga2O3 heterostructures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	8
48	Superconductivity in Ca0.5La0.5FBiSe2. Journal of Superconductivity and Novel Magnetism, 2017, 30, 305-309.	1.8	7
49	Determination of type-Î™Î™ band alignment <i>Î²</i>-Ga2O3/GaAs heterojunction interface by x-ray photoelectron spectroscopy. Journal of Applied Physics, 2021, 130, .	2.5	7
50	Epitaxial Growth and Solarâ€Blind Photoelectric Characteristic of Ga 2 O 3 Film on Various Oriented Sapphire Substrates by Plasmaâ€Enhanced Chemical Vapor Deposition. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100076.	1.8	6
51	Large and anisotropic linear magnetoresistance in bulk stoichiometric Cd3As2 crystals. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1-6.	5.1	4
52	The size effect on transport properties of colossal magnetoresistance materials La0.67Ca0.33MnO3. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 251-257.	0.2	2
53	A self-powered deep-ultraviolet photodetector based on a hybrid organic-inorganic p-P3HT/n-Ga₂O₃ heterostructure. Physica Scripta, 2022, 97, 075804.	2.5	2
54	Composition tuning of rectifying polarity of colloidal CdS1âˆ’x Se x nanocrystal-based devices. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	1

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55	Factors affecting the superconductivity in the process of depositing Nd1.85Ce0.15CuO4â^'Î´ by the pulsed electron deposition technique. Science in China Series G: Physics, Mechanics and Astronomy, 2007, 50, 747-752.	0.2	0