

Zuyong Yan

List of Publications by Year in descending order

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19
papers

912
citations

567281

15
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all docs

19
docs citations

19
times ranked

445
citing authors

#	ARTICLE	IF	CITATIONS
1	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 & Interfaces</i> , 2019, 11, 35105-35114.	8.0	161
2	A self-powered solar-blind photodetector with large V_{oc} enhancing performance based on the PEDOT:PSS/ Ga_2O_3 organic-inorganic hybrid heterojunction. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1292-1300.	5.5	94
3	Broadband Ultraviolet Self-Powered Photodetector Constructed on Exfoliated $\text{In}^{2-}\text{Ga}_2\text{O}_3/\text{CuI}$ Core-Shell Microwire Heterojunction with Superior Reliability. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 447-453.	4.6	90
4	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
5	Ultrasensitive Flexible Solar-Blind Photodetectors Based on Graphene/Amorphous Ga_2O_3 van der Waals Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47714-47720.	8.0	73
6	High sensitivity and fast response self-powered solar-blind ultraviolet photodetector with a $\text{In}^{2-}\text{Ga}_2\text{O}_3/\text{Spiro-MeOTAD}$ p-n heterojunction. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4502-4509.	5.5	69
7	Oxygen vacancies modulating the photodetector performances in $\mu\text{-Ga}_2\text{O}_3$ thin films. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5437-5444.	5.5	66
8	Construction of a $\text{In}^{2-}\text{Ga}_2\text{O}_3$ -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
9	Comparison of optoelectrical characteristics between Schottky and Ohmic contacts to $\text{In}^{2-}\text{Ga}_2\text{O}_3$ thin film. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 085105.	2.8	40
10	A broadband UV-visible photodetector based on a $\text{Ga}_2\text{O}_3/\text{BFO}$ heterojunction. <i>Physica Scripta</i> , 2021, 96, 125823.	2.5	22
11	Reinforcement of double built-in electric fields in spiro-MeOTAD/ $\text{Ga}_2\text{O}_3/\text{Si}$ p-n structure for a high-sensitivity solar-blind UV photovoltaic detector. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14788-14798.	5.5	21
12	Self-Powered Ultraviolet Photodetector Based on $\text{In}^{2-}\text{Ga}_2\text{O}_3/\text{WO}_3$ NPs Heterojunction With Low Noise and High Visible Rejection. <i>IEEE Sensors Journal</i> , 2021, 21, 26724-26730.	4.7	20
13	A self-powered $\text{In}^{2-}\text{Ga}_2\text{O}_3/\text{CsCu}_2\text{I}_3$ heterojunction photodiode responding to deep ultraviolet irradiation. <i>Current Applied Physics</i> , 2022, 33, 20-26.	2.4	20
14	Oxygen vacancies modulating self-powered photoresponse in PEDOT:PSS/ $\mu\text{-Ga}_2\text{O}_3$ heterojunction by trapping effect. <i>Science China Technological Sciences</i> , 2022, 65, 704-712.	4.0	20
15	A Spiro-MeOTAD/ $\text{Ga}_2\text{O}_3/\text{Si}$ 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 & Interfaces</i> , 2021, 13, 57619-57628.	8.0	19
16	$\text{Ti}_3\text{C}_2/\mu\text{-Ga}_2\text{O}_3$ Schottky Self-Powered Solar-Blind Photodetector With Robust Responsivity. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-8.	2.9	15
17	Low MOCVD growth temperature controlled phase transition of Ga_2O_3 films for ultraviolet sensing. <i>Vacuum</i> , 2022, 203, 111270.	3.5	13
18	A study for the influences of temperatures on ZnGa_2O_4 films and solar-blind sensing performances. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 405107.	2.8	12

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19	Enhanced deep-ultraviolet sensing by an all-inorganic p-PZT/n-Ga ₂ O ₃ thin-film heterojunction. Journal Physics D: Applied Physics, 2021, 54, 195104.	2.8	11