Yueheng Zhang

List of Publications by Year in descending order

27 papers	289 citations	840776 11 h-index	940533 16 g-index
27 all docs	27 docs citations	27 times ranked	261 citing authors

#	Article	IF	Citations
1	Broadband and photovoltaic THz/IR response in the GaAs-based ratchet photodetector. Science Advances, 2022, 8, .	10.3	11
2	Quantum ratchet broadband THz detector. , 2021, , .		0
3	Optimization of the Cryogenic Light-Emitting Diodes for High-Performance Broadband Terahertz Upconversion Imaging. Frontiers in Physics, 2021, 9, .	2.1	3
4	Optical coupling enhancement of multi-color terahertz quantum well detector. Journal of Applied Physics, 2021, 130, 203102.	2.5	5
5	Ultra-broadband THz/IR upconversion and photovoltaic response in semiconductor ratchet-based upconverter. Applied Physics Letters, 2021, 119, .	3.3	6
6	Tunable Cherenkov Radiation of Phonon Polaritons in Silver Nanowire/Hexagonal Boron Nitride Heterostructures. Nano Letters, 2020, 20, 2770-2777.	9.1	19
7	Cryogenic characteristics of GaAs-based near-infrared light emitting diodes. Semiconductor Science and Technology, 2020, 35, 035021.	2.0	7
8	Broadband THz to NIR up-converter for photon-type THz imaging. Nature Communications, 2019, 10, 3513.	12.8	28
9	Highâ€Efficiency Interdigitated Back Contact Silicon Solar Cells with Front Floating Emitter. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900445.	1.8	2
10	Optical field simulation of edge coupled terahertz quantum well photodetectors. AIP Advances, 2018, 8, 035214.	1.3	5
11	Realization of the high-performance THz GaAs homojunction detector below the frequency of Reststrahlen band. Applied Physics Letters, 2018, 113, .	3.3	13
12	Infrared single photon detector based on optical up-converter at 1550â€‰nm. Scientific Reports, 2017, 7, 15341.	3.3	14
13	Noise, gain, and capture probability of p-type InAs-GaAs quantum-dot and quantum dot-in-well infrared photodetectors. Journal of Applied Physics, 2017, 121, 244501.	2.5	22
14	Performance of terahertz quantum-well photodetectors. , 2015, , .		0
15	High-Temperature Photon-Noise-Limited Performance Terahertz Quantum-Well Photodetectors. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 715-724.	3.1	12
16	Study of valence-band intersublevel transitions in InAs/GaAs quantum dots-in-well infrared photodetectors. Applied Physics Letters, 2014, 104, .	3.3	11
17	High temperature terahertz response in a p-type quantum dot-in-well photodetector. Applied Physics Letters, 2014, 105, 151107.	3.3	10
18	Dark current mechanism of terahertz quantum-well photodetectors. Journal of Applied Physics, 2014, 116, .	2.5	8

#	Article	IF	Citations
19	Terahertz quantum-well photodetectors: Design, performance, and improvements. Journal of Applied Physics, 2013, 114, 194507.	2.5	15
20	InAs/GaAs p-type quantum dot infrared photodetector with higher efficiency. Applied Physics Letters, 2013, 103, .	3.3	43
21	Quantum well infrared photodetector simultaneously working inÂtwo atmospheric windows. Applied Physics A: Materials Science and Processing, 2010, 100, 415-419.	2.3	2
22	Performance optimization of resonant cavity enhanced n-GaAs homojunction far-infrared detectors: A theoretical study. Journal of Applied Physics, 2009, 105, 084515.	2.5	3
23	Temperature dependence of the optical properties in GaMnN. Journal of Applied Physics, 2006, 99, 113533.	2.5	11
24	Temperature dependence of Raman scattering in GaMnN. Applied Physics Letters, 2006, 89, 161920.	3.3	13
25	Response to â€œComment on â€˜Study on the quantum efficiency of resonant cavity enhanced GaAs far-infrared detectorsâ€â€™ [J. Appl. Phys.93, 786 (2003)]. Journal of Applied Physics, 2003, 93, 788-788.	2.5	0
26	Demonstration of bottom mirrors for resonant-cavity-enhanced GaAs homojunction far-infrared detectors. Applied Physics Letters, 2003, 82, 1129-1131.	3.3	12
27	Study on the quantum efficiency of resonant cavity enhanced GaAs far-infrared detectors. Journal of Applied Physics, 2002, 91, 5538-5544.	2.5	14