

A G Unil Perera

List of Publications by Year in descending order

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44
papers

595
citations

687363

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46
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46
docs citations

46
times ranked

772
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable hot-carrier photodetection beyond the bandgap spectral limit. <i>Nature Photonics</i> , 2014, 8, 412-418.	31.4	66
2	ATR-FTIR spectral discrimination between normal and tumorous mouse models of lymphoma and melanoma from serum samples. <i>Scientific Reports</i> , 2017, 7, 16993.	3.3	49
3	A multicolor, broadband (5â€“20â€“m), quaternary-capped InAs/GaAs quantum dot infrared photodetector. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	47
4	InAs/GaAs <i>n-i-p</i> -type quantum dot infrared photodetector with higher efficiency. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	43
5	Temperature-dependent internal photoemission probe for band parameters. <i>Physical Review B</i> , 2012, 86, .	3.2	30
6	Protein Conformational Changes in Breast Cancer Sera Using Infrared Spectroscopic Analysis. <i>Cancers</i> , 2020, 12, 1708.	3.7	29
7	Minimally invasive screening for colitis using attenuated total internal reflectance fourier transform infrared spectroscopy. <i>Journal of Biophotonics</i> , 2017, 10, 465-472.	2.3	28
8	Protein secondary structure analysis of dried blood serum using infrared spectroscopy to identify markers for colitis screening. <i>Journal of Biophotonics</i> , 2018, 11, e201700057.	2.3	27
9	Simultaneous detection of ultraviolet and infrared radiation in a single GaN/GaN heterojunction. <i>Optics Letters</i> , 2008, 33, 2422.	3.3	23
10	Dielectric function model for <i>n-i-p</i> -type semiconductor inter-valence band transitions. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	23
11	Effect of quantum dot size and size distribution on the intersublevel transitions and absorption coefficients of III-V semiconductor quantum dot. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	22
12	Noise, gain, and capture probability of p-type InAs-GaAs quantum-dot and quantum dot-in-well infrared photodetectors. <i>Journal of Applied Physics</i> , 2017, 121, 244501.	2.5	22
13	Room temperature plasmon-enhanced InAs _{0.91} Sb _{0.09} -based heterojunction <i>n-i-p</i> mid-wave infrared photodetector. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	21
14	Band offsets and carrier dynamics of type-II InAs/GaSb superlattice photodetectors studied by internal photoemission spectroscopy. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	13
15	Early detection of cell activation events by means of attenuated total reflection Fourier transform infrared spectroscopy. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	13
16	Study of valence-band intersublevel transitions in InAs/GaAs quantum dots-in-well infrared photodetectors. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	11
17	Polarization Sensitivity of Quantum Well Infrared Photodetector Coupled to a Metallic Diffraction Grid. <i>IEEE Journal of Quantum Electronics</i> , 2010, 46, 877-883.	1.9	10
18	High temperature terahertz response in a p-type quantum dot-in-well photodetector. <i>Applied Physics Letters</i> , 2014, 105, 151107.	3.3	10

#	ARTICLE	IF	CITATIONS
19	Large circular dichroism and optical rotation in titanium doped chiral silver nanorods. <i>Annalen Der Physik</i> , 2016, 528, 677-683.	2.4	10
20	Extended wavelength infrared photodetectors. <i>Optical Engineering</i> , 2017, 56, 091605.	1.0	9
21	Analysis of Dark Current Mechanisms for Split-Off Band Infrared Detectors at High Temperatures. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 1230-1236.	3.0	8
22	Design of resonant-cavity-enhanced multi-band photodetectors. <i>Journal of Applied Physics</i> , 2011, 110, 043112.	2.5	8
23	Direct observation of spin-orbit splitting and phonon-assisted optical transitions in the valence band by internal photoemission spectroscopy. <i>Physical Review B</i> , 2013, 88, .	3.2	6
24	Temperature-dependent far-infrared response of epitaxial multilayer graphene. <i>Applied Physics Letters</i> , 2013, 102, 231906.	3.3	6
25	Band-offset non-commutativity of GaAs/AlGaAs interfaces probed by internal photoemission spectroscopy. <i>Applied Physics Letters</i> , 2014, 105, 171603.	3.3	6
26	Wavelength-extended photovoltaic infrared photodetectors. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	6
27	Recent Progress on Extended Wavelength and Split-Off Band Heterostructure Infrared Detectors. <i>Micromachines</i> , 2020, 11, 547.	2.9	6
28	Low-Cost ZnO-Based Ultraviolet-Infrared Dual-Band Detector Sensitized With PbS Quantum Dots. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 2756-2760.	3.0	5
29	Optical study of HgCdTe infrared photodetectors using internal photoemission spectroscopy. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	5
30	Analysis of Extended Threshold Wavelength Photoresponse in Nonsymmetrical p-GaAs/AlGaAs Heterostructure Photodetectors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-7.	2.9	5
31	Effects of Barrier Energy Offset and Gradient in Extended Wavelength Infrared Detectors. , 2018, 2, 1-4.		5
32	Dopant Migration-Induced Interface Dipole Effect in n-Doped GaAs/AlGaAs Terahertz Detectors. <i>IEEE Electron Device Letters</i> , 2008, 29, 1090-1093.	3.9	4
33	Optimizing infrared spectral discrimination to enhance disease diagnostics: monitoring the signatures of inflammatory bowel diseases with anti-TNF \pm therapy. <i>Biomedical Optics Express</i> , 2020, 11, 4679.	2.9	4
34	Infrared spectrometric biomarkers for ulcerative colitis screening using human serum samples. <i>Journal of Biophotonics</i> , 2022, 15, e202100307.	2.3	4
35	Mid-infrared photodetectors operating over an extended wavelength range up to 90 μ m. <i>Optics Letters</i> , 2016, 41, 285.	3.3	3
36	Analysis of Barrier Parameters on the Extended Threshold Wavelength of Infrared Detectors. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1617-1620.	2.5	3

#	ARTICLE	IF	CITATIONS
37	Reduced Dark Current With a Specific Detectivity Advantage in Extended Threshold Wavelength Infrared Detector. , 2019, 3, 1-4.		3
38	Mid-infrared detection in p-GaAs/AlGaAs heterostructures with a current blocking barrier. , 2017, , .		1
39	Colitis screening using IR spectroscopy of serum samples. , 2017, , .		1
40	III-V based room temperature THz detectors. , 2008, , .		0
41	Tunable hot-carrier photodetector. , 2015, , .		0
42	GaMnAs for Mid-Wave Infrared Photodetection. IEEE Photonics Technology Letters, 2016, 28, 2261-2264.	2.5	0
43	Editorial for the Special Issue on Semiconductor Infrared Devices and Applications. Micromachines, 2021, 12, 1069.	2.9	0
44	Threshold wavelength extension with dark current reduction in infrared detectors. , 2019, , .		0