

David Zy Ting

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

797

citations

16

h-index

25

g-index

85

ext. papers

980

ext. citations

2.8

avg, IF

3.92

L-index

#	Paper	IF	Citations
66	Technology Maturation Efforts for the Next Generation of Grating Spectrometer Hyperspectral Infrared Sounders. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022 , 1-1	4.7	1
65	Type-II Superlattice Mid-Wavelength Infrared Focal Plane Arrays for CubeSat Hyperspectral Imaging. <i>IEEE Photonics Technology Letters</i> , 2022 , 34, 329-332	2.2	0
64	Development of type-II superlattice long wavelength infrared focal plane arrays for land imaging. <i>Infrared Physics and Technology</i> , 2022 , 123, 104133	2.7	0
63	Long wavelength InAs/InAsSb superlattice barrier infrared detectors with p-type absorber quantum efficiency enhancement. <i>Applied Physics Letters</i> , 2021 , 118, 133503	3.4	10
62	Ambient performance testing of the CubeSat Infrared Atmospheric Sounder (CIRAS) 2021 ,		2
61	Temperature dependence of diffusion length and mobility in mid-wavelength InAs/InAsSb superlattice infrared detectors. <i>Applied Physics Letters</i> , 2020 , 117, 231103	3.4	5
60	InAs/InAsSb Type-II Strained-Layer Superlattice Infrared Photodetectors. <i>Micromachines</i> , 2020 , 11,	3.3	16
59	Long Wavelength InAs/InAsSb Infrared Superlattice Challenges: A Theoretical Investigation. <i>Journal of Electronic Materials</i> , 2020 , 49, 6936-6945	1.9	7
58	Mid-wavelength infrared InAsSb/InAs nBn detectors and FPAs with very low dark current density. <i>Applied Physics Letters</i> , 2019 , 114, 161103	3.4	23
57	Development of InAs/InAsSb Type II Strained-Layer Superlattice Unipolar Barrier Infrared Detectors. <i>Journal of Electronic Materials</i> , 2019 , 48, 6145-6151	1.9	12
56	The emergence of InAs/InAsSb type-II strained layer superlattice barrier infrared detectors 2019 ,		6
55	Type-II strained-layer superlattice digital focal plane arrays for earth remote sensing instruments 2019 ,		1
54	Advances in III-V semiconductor infrared absorbers and detectors. <i>Infrared Physics and Technology</i> , 2019 , 97, 210-216	2.7	33
53	Modulation transfer function measurements of Type-II mid- wavelength and long-wavelength infrared superlattice focal plane arrays. <i>Infrared Physics and Technology</i> , 2019 , 96, 251-261	2.7	1
52	High operating temperature nBn detector with monolithically integrated microlens. <i>Applied Physics Letters</i> , 2018 , 112, 041105	3.4	23
51	Mid-wavelength high operating temperature barrier infrared detector and focal plane array. <i>Applied Physics Letters</i> , 2018 , 113, 021101	3.4	72
50	Antimonide e-SWIR, MWIR, and LWIR barrier infrared detector and focal plane array development 2018 ,		4

49	InAs/InAsSb Type-II Superlattice Mid-Wavelength Infrared Focal Plane Array With Significantly Higher Operating Temperature Than InSb. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-6	1.8	22
48	Solid-immersion metalenses for infrared focal plane arrays. <i>Applied Physics Letters</i> , 2018 , 113, 111104	3.4	38
47	Theoretical analysis of nBn infrared photodetectors. <i>Optical Engineering</i> , 2017 , 56, 091606	1.1	3
46	Evidence of carrier localization in InAsSb/InSb digital alloy nBn detector 2017 ,		1
45	Antimonide type-II superlattice barrier infrared detectors 2017 ,		7
44	Type-II superlattice hole effective masses. <i>Infrared Physics and Technology</i> , 2017 , 84, 102-106	2.7	20
43	Carrier transport in nBn infrared detectors 2016 ,		2
42	Hole effective masses and subband splitting in type-II superlattice infrared detectors. <i>Applied Physics Letters</i> , 2016 , 108, 183504	3.4	27
41	Mid-wavelength infrared InAsSb/InSb nBn detector with extended cut-off wavelength. <i>Applied Physics Letters</i> , 2016 , 109, 103505	3.4	29
40	High-Temperature Characteristics of an InAsSb/AlAsSb n+Bn Detector. <i>Journal of Electronic Materials</i> , 2016 , 45, 4680-4685	1.9	12
39	Theoretical Aspects of Minority Carrier Extraction in Unipolar Barrier Infrared Detectors. <i>Journal of Electronic Materials</i> , 2015 , 44, 3036-3043	1.9	10
38	Hyperspectral Imaging in the Thermal Infrared: Existing and Future Instruments 2015 ,		1
37	The sub-monolayer quantum dot infrared photodetector revisited. <i>Infrared Physics and Technology</i> , 2015 , 70, 20-24	2.7	5
36	Carrier transport in unipolar barrier infrared detectors 2015 ,		2
35	Quantum Well Infrared Photodetector Technology and Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 154-165	3.8	23
34	Development of quantum well, quantum dot, and type II superlattice infrared photodetectors. <i>Journal of Applied Remote Sensing</i> , 2014 , 8, 084998	1.4	9
33	Multi-color QWIP FPAs for hyperspectral thermal emission instruments 2013 ,		3
32	Superlattice and Quantum Dot Unipolar Barrier Infrared Detectors. <i>Journal of Electronic Materials</i> , 2013 , 42, 3071-3079	1.9	7

31	High performance long-wave type-II superlattice infrared detectors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 03C122	1.3	9
30	Minority carrier lifetime and photoluminescence studies of antimony-based superlattices 2013 ,		9
29	Performance of a 1/4 VGA Format Long-Wavelength Infrared Antimonides-Based Superlattice Focal Plane Array. <i>IEEE Journal of Quantum Electronics</i> , 2012 , 48, 878-884	2	16
28	Barrier infrared detector research at the Jet Propulsion Laboratory 2012 ,		1
27	High operating temperature midwave quantum dot barrier infrared detector (QD-BIRD) 2012 ,		7
26	Superlattice barrier infrared detector development at the Jet Propulsion Laboratory 2011 ,		3
25	Photoluminescence study of long wavelength superlattice infrared detectors 2011 ,		1
24	Type II superlattice barrier infrared detector 2011 ,		7
23	InAs/GaSb superlattice based long-wavelength infrared detectors: Growth, processing, and characterization. <i>Infrared Physics and Technology</i> , 2011 , 54, 247-251	2.7	5
22	Optical studies on antimonide superlattice infrared detector material 2010 ,		3
21	Antimonide-based barrier infrared detectors 2010 ,		12
20	Growth and performance of superlattice-based long wavelength complementary barrier infrared detectors (CBIRDs) 2010 ,		1
19	Toward high-efficiency quantum dot solar cells: optimized gratings for ultrathin waveguide devices 2010 ,		1
18	Characterization of barrier effects in superlattice LWIR detectors 2010 ,		8
17	Demonstration of Megapixel Dual-Band QWIP Focal Plane Array. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 285-293	2	39
16	Demonstration of mid and long-wavelength infrared antimonide-based focal plane arrays 2009 ,		8
15	A super-pixel QWIP focal plane array for imaging multiple waveband temperature sensor. <i>Infrared Physics and Technology</i> , 2009 , 52, 403-407	2.7	9
14	Dark current analysis of InAs/GaSb superlattices at low temperatures. <i>Infrared Physics and Technology</i> , 2009 , 52, 317-321	2.7	32

13	Demonstration of large format mid-wavelength infrared focal plane arrays based on superlattice and BIRD detector structures. <i>Infrared Physics and Technology</i> , 2009 , 52, 348-352	2.7	22
12	Antimonide superlattice barrier infrared detectors 2009 ,		9
11	Band structure and impurity effects on optical properties of quantum well and quantum dot infrared photodetectors. <i>Infrared Physics and Technology</i> , 2007 , 50, 136-141	2.7	13
10	640x512 Pixels Long-Wavelength Infrared (LWIR) Quantum-Dot Infrared Photodetector (QDIP) Imaging Focal Plane Array. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 230-237	2	71
9	Quantum Dot Based Infrared Focal Plane Arrays. <i>Proceedings of the IEEE</i> , 2007 , 95, 1838-1852	14.3	47
8	InAs/GaSb/AlSb resonant tunneling spin device concepts. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 20, 350-354	3	1
7	Characterization of QWIP (10-16 μm) broadband FPA 2003 , 4820, 273		1
6	Ultra-refractive and extended range one-dimensional photonic crystal superprisms 2003 , 4992, 43		
5	Large-format long-wavelength GaAs/AlGaAs multiquantum well infrared detector arrays for astronomy 2001 ,		2
4	Large-format broadband multicolor GaAs/AlGaAs quantum well infrared photodetector (QWIP) focal plane arrays 2001 ,		4
3	Recent developments and applications of quantum well infrared photodetector focal plane arrays 2001 , 4413, 323		1
2	Novel InAs/GaSb/AlSb tunnel structures 1990 , 1283, 2		6
1	Long and Very Long Wavelength InAs/InAsSb Superlattice Complementary Barrier Infrared Detectors. <i>Journal of Electronic Materials</i> , 1	1.9	4