David Zy Ting

List of Publications by Citations

66	797	16	25
papers	citations	h-index	g-index
85	980	2.8	3.92
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
66	Mid-wavelength high operating temperature barrier infrared detector and focal plane array. *Applied Physics Letters*, **2018**, 113, 021101	3.4	72
65	640$,times,$512 Pixels Long-Wavelength Infrared (LWIR) Quantum-Dot Infrared Photodetector (QDIP) Imaging Focal Plane Array. *IEEE Journal of Quantum Electronics*, **2007**, 43, 230-237	2	71
64	Quantum Dot Based Infrared Focal Plane Arrays. *Proceedings of the IEEE*, **2007**, 95, 1838-1852	14.3	47
63	Demonstration of Megapixel Dual-Band QWIP Focal Plane Array. *IEEE Journal of Quantum Electronics*, **2010**, 46, 285-293	2	39
62	Solid-immersion metalenses for infrared focal plane arrays. *Applied Physics Letters*, **2018**, 113, 111104	3.4	38
61	Advances in III-V semiconductor infrared absorbers and detectors. *Infrared Physics and Technology*, **2019**, 97, 210-216	2.7	33
60	Dark current analysis of InAs/GaSb superlattices at low temperatures. *Infrared Physics and Technology*, **2009**, 52, 317-321	2.7	32
59	Mid-wavelength infrared InAsSb/InSb nBn detector with extended cut-off wavelength. *Applied Physics Letters*, **2016**, 109, 103505	3.4	29
58	Hole effective masses and subband splitting in type-II superlattice infrared detectors. *Applied Physics Letters*, **2016**, 108, 183504	3.4	27
57	Mid-wavelength infrared InAsSb/InAs nBn detectors and FPAs with very low dark current density. *Applied Physics Letters*, **2019**, 114, 161103	3.4	23
56	High operating temperature nBn detector with monolithically integrated microlens. *Applied Physics Letters*, **2018**, 112, 041105	3.4	23
55	Quantum Well Infrared Photodetector Technology and Applications. *IEEE Journal of Selected Topics in Quantum Electronics*, **2014**, 20, 154-165	3.8	23
54	Demonstration of large format mid-wavelength infrared focal plane arrays based on superlattice and BIRD detector structures. *Infrared Physics and Technology*, **2009**, 52, 348-352	2.7	22
53	InAs/InAsSb Type-II Superlattice Mid-Wavelength Infrared Focal Plane Array With Significantly Higher Operating Temperature Than InSb. *IEEE Photonics Journal*, **2018**, 10, 1-6	1.8	22
52	Type-II superlattice hole effective masses. *Infrared Physics and Technology*, **2017**, 84, 102-106	2.7	20
51	InAs/InAsSb Type-II Strained-Layer Superlattice Infrared Photodetectors. *Micromachines*, **2020**, 11,	3.3	16
50	Performance of a 1/4 VGA Format Long-Wavelength Infrared Antimonides-Based Superlattice Focal Plane Array. *IEEE Journal of Quantum Electronics*, **2012**, 48, 878-884	2	16

49	Band structure and impurity effects on optical properties of quantum well and quantum dot infrared photodetectors. *Infrared Physics and Technology*, **2007**, 50, 136-141	2.7	13
48	Development of InAs/InAsSb Type II Strained-Layer Superlattice Unipolar Barrier Infrared Detectors. *Journal of Electronic Materials*, **2019**, 48, 6145-6151	1.9	12
47	Antimonide-based barrier infrared detectors **2010**,		12
46	High-Temperature Characteristics of an InAsSb/AlAsSb n+Bn Detector. *Journal of Electronic Materials*, **2016**, 45, 4680-4685	1.9	12
45	Theoretical Aspects of Minority Carrier Extraction in Unipolar Barrier Infrared Detectors. *Journal of Electronic Materials*, **2015**, 44, 3036-3043	1.9	10
44	Long wavelength InAs/InAsSb superlattice barrier infrared detectors with p-type absorber quantum efficiency enhancement. *Applied Physics Letters*, **2021**, 118, 133503	3.4	10
43	High performance long-wave type-II superlattice infrared detectors. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2013**, 31, 03C122	1.3	9
42	Minority carrier lifetime and photoluminescence studies of antimony-based superlattices **2013**,		9
41	Development of quantum well, quantum dot, and type II superlattice infrared photodetectors. *Journal of Applied Remote Sensing*, **2014**, 8, 084998	1.4	9
40	A super-pixel QWIP focal plane array for imaging multiple waveband temperature sensor. *Infrared Physics and Technology*, **2009**, 52, 403-407	2.7	9
39	Antimonide superlattice barrier infrared detectors **2009**,		9
38	Demonstration of mid and long-wavelength infrared antimonide-based focal plane arrays **2009**,		8
37	Characterization of barrier effects in superlattice LWIR detectors **2010**,		8
36	Antimonide type-II superlattice barrier infrared detectors **2017**,		7
35	Superlattice and Quantum Dot Unipolar Barrier Infrared Detectors. *Journal of Electronic Materials*, **2013**, 42, 3071-3079	1.9	7
34	High operating temperature midwave quantum dot barrier infrared detector (QD-BIRD) **2012**,		7
33	Type II superlattice barrier infrared detector **2011**,		7
32	Long Wavelength InAs/InAsSb Infrared Superlattice Challenges: A Theoretical Investigation. *Journal of Electronic Materials*, **2020**, 49, 6936-6945	1.9	7

31	Novel InAs/GaSb/AlSb tunnel structures **1990**, 1283, 2		6
30	The emergence of InAs/InAsSb type-II strained layer superlattice barrier infrared detectors **2019**,		6
29	The sub-monolayer quantum dot infrared photodetector revisited. *Infrared Physics and Technology*, **2015**, 70, 20-24	2.7	5
28	Temperature dependence of diffusion length and mobility in mid-wavelength InAs/InAsSb superlattice infrared detectors. *Applied Physics Letters*, **2020**, 117, 231103	3.4	5
27	InAs/GaSb superlattice based long-wavelength infrared detectors: Growth, processing, and characterization. *Infrared Physics and Technology*, **2011**, 54, 247-251	2.7	5
26	Large-format broadband multicolor GaAs/AlGaAs quantum well infrared photodetector (QWIP) focal plane arrays **2001**,		4
25	Antimonide e-SWIR, MWIR, and LWIR barrier infrared detector and focal plane array development **2018**,		4
24	Long and Very Long Wavelength InAs/InAsSb Superlattice Complementary Barrier Infrared Detectors. *Journal of Electronic Materials*,1	1.9	4
23	Theoretical analysis of nBn infrared photodetectors. *Optical Engineering*, **2017**, 56, 091606	1.1	3
22	Multi-color QWIP FPAs for hyperspectral thermal emission instruments **2013**,		3
21	Superlattice barrier infrared detector development at the Jet Propulsion Laboratory **2011**,		3
20	Optical studies on antimonide superlattice infrared detector material **2010**,		3
19	Carrier transport in nBn infrared detectors **2016**,		2
18	Carrier transport in unipolar barrier infrared detectors **2015**,		2
17	Large-format long-wavelength GaAs/AlGaAs multiquantum well infrared detector arrays for astronomy **2001**,		2
16	Ambient performance testing of the CubeSat Infrared Atmospheric Sounder (CIRAS) **2021**,		2
15	Evidence of carrier localization in InAsSb/InSb digital alloy nBn detector **2017**,		1
14	Hyperspectral Imaging in the Thermal Infrared: Existing and Future Instruments **2015**,		1

13	Barrier infrared detector research at the Jet Propulsion Laboratory **2012**,		1
12	Photoluminescence study of long wavelength superlattice infrared detectors **2011**,		1
11	Growth and performance of superlattice-based long wavelength complementary barrier infrared detectors (CBIRDs) **2010**,		1
10	Toward high-efficiency quantum dot solar cells: optimized gratings for ultrathin waveguide devices **2010**,		1
9	Characterization of QWIP (10-16 Ħm) broadband FPA **2003**, 4820, 273		1
8	InAs/GaSb/AlSb resonant tunneling spin device concepts. *Physica E: Low-Dimensional Systems and Nanostructures*, **2004**, 20, 350-354	3	1
7	Recent developments and applications of quantum well infrared photodetector focal plane arrays **2001**, 4413, 323		1
6	Type-II strained-layer superlattice digital focal plane arrays for earth remote sensing instruments **2019**,		1
5	Modulation transfer function measurements of Type-II mid- wavelength and long-wavelength infrared superlattice focal plane arrays. *Infrared Physics and Technology*, **2019**, 96, 251-261	2.7	1
4	Technology Maturation Efforts for the Next Generation of Grating Spectrometer Hyperspectral Infrared Sounders. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2022**, 1-1	4.7	1
3	Type-II Superlattice Mid-Wavelength Infrared Focal Plane Arrays for CubeSat Hyperspectral Imaging. *IEEE Photonics Technology Letters*, **2022**, 34, 329-332	2.2	0
2	Development of type-II superlattice long wavelength infrared focal plane arrays for land imaging. *Infrared Physics and Technology*, **2022**, 123, 104133	2.7	0
1	Ultra-refractive and extended range one-dimensionsal photonic crystal superprisms **2003**, 4992, 43		