

James Grant

List of Publications by Citations

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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.

63

papers

2,570

citations

22

h-index

50

g-index

70

ext. papers

3,187

ext. citations

3.8

avg, IF

4.82

L-index

#	Paper	IF	Citations
63	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 043001	3	724
62	A terahertz polarization insensitive dual band metamaterial absorber. <i>Optics Letters</i> , 2011 , 36, 945-7	3	375
61	Polarization insensitive, broadband terahertz metamaterial absorber. <i>Optics Letters</i> , 2011 , 36, 3476-8	3	330
60	Polarization insensitive terahertz metamaterial absorber. <i>Optics Letters</i> , 2011 , 36, 1524-6	3	128
59	Octave-Spanning Broadband Absorption of Terahertz Light Using Metasurface Fractal-Cross Absorbers. <i>ACS Photonics</i> , 2017 , 4, 2604-2612	6.3	106
58	A monolithic resonant terahertz sensor element comprising a metamaterial absorber and micro-bolometer. <i>Laser and Photonics Reviews</i> , 2013 , 7, 1043-1048	8.3	63
57	GaN as a radiation hard particle detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 576, 60-65	1.2	57
56	Multi-Spectral Materials: Hybridisation of Optical Plasmonic Filters and a Terahertz Metamaterial Absorber. <i>Advanced Optical Materials</i> , 2014 , 2, 149-153	8.1	56
55	Wide bandgap semiconductor detectors for harsh radiation environments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 546, 213-217	1.2	54
54	Multi-spectral materials: hybridisation of optical plasmonic filters, a mid infrared metamaterial absorber and a terahertz metamaterial absorber. <i>Optics Express</i> , 2016 , 24, 3451-63	3.3	45
53	Enhanced Photoelectric and Photothermal Responses on Silicon Platform by Plasmonic Absorber and Omni-Schottky Junction. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700059	8.3	37
52	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-8	3.8	35
51	Uncooled CMOS terahertz imager using a metamaterial absorber and pn diode. <i>Optics Letters</i> , 2016 , 41, 3261-4	3	34
50	. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015 , 5, 892-901	3.4	32
49	Ultra-narrow Line Width Polarization-Insensitive Filter Using a Symmetry-Breaking Selective Plasmonic Metasurface. <i>ACS Photonics</i> , 2018 , 5, 663-669	6.3	32
48	An Integrated Circuit for Chip-Based Analysis of Enzyme Kinetics and Metabolite Quantification. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 721-30	5.1	30
47	Plasmonic Sensor Monolithically Integrated with a CMOS Photodiode. <i>ACS Photonics</i> , 2016 , 3, 1926-1933	3.6	26

46	CMOS compatible metamaterial absorbers for hyperspectral medium wave infrared imaging and sensing applications. <i>Optics Express</i> , 2018 , 26, 10408-10420	3.3	26
45	Imprinted terahertz artificial dielectric quarter wave plates. <i>Optics Express</i> , 2010 , 18, 12168-75	3.3	26
44	Narrowband multispectral filter set for visible band. <i>Optics Express</i> , 2012 , 20, 21917-23	3.3	24
43	Low-Loss Terahertz Artificial Dielectric Birefringent Quarter-Wave Plates. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 79-81	2.2	23
42	Unity Integration of Grating Slot Waveguide and Microfluid for Terahertz Sensing. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800078	8.3	23
41	Multispectral metamaterial absorber. <i>Optics Letters</i> , 2014 , 39, 1227-30	3	22
40	Hybrid localized surface plasmon resonance and quartz crystal microbalance sensor for label free biosensing. <i>Biosensors and Bioelectronics</i> , 2018 , 100, 23-27	11.8	19
39	A Colorimetric CMOS-Based Platform for Rapid Total Serum Cholesterol Quantification. <i>IEEE Sensors Journal</i> , 2017 , 17, 240-247	4	17
38	Terahertz Frequency-Domain Spectroscopy Method for Vector Characterization of Liquid Using an Artificial Dielectric. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2012 , 2, 113-122	3.4	17
37	Hybridization of optical plasmonics with terahertz metamaterials to create multi-spectral filters. <i>Optics Express</i> , 2013 , 21, 19142-52	3.3	17
36	Multimodal Integrated Sensor Platform for Rapid Biomarker Detection. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 614-623	5	17
35	Terahertz localized surface plasmon resonance of periodic silicon microring arrays. <i>Journal of Applied Physics</i> , 2011 , 109, 054903	2.5	16
34	Exploitation of Magnetic Dipole Resonances in Metal-Insulator-Metal Plasmonic Nanostructures to Selectively Filter Visible Light. <i>ACS Photonics</i> , 2018 , 5, 1250-1261	6.3	15
33	One-Dimensional Silicon Nitride Grating Refractive Index Sensor Suitable for Integration With CMOS Detectors. <i>IEEE Photonics Journal</i> , 2017 , 1-1	1.8	11
32	A 16 x 16 CMOS Amperometric Microelectrode Array for Simultaneous Electrochemical Measurements. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 2821-2831	3.9	10
31	Application of terahertz spectroscopy to the characterization of biological samples using birefringence silicon grating. <i>Journal of Biomedical Optics</i> , 2012 , 17, 067006	3.5	10
30	Terahertz single pixel imaging based on a Nipkow disk. <i>Optics Letters</i> , 2012 , 37, 1484-6	3	10
29	Alignment-insensitive bilayer THz metasurface absorbers exceeding 100% bandwidth. <i>Optics Express</i> , 2019 , 27, 20886-20900	3.3	10

28	Ultralow-light-level color image reconstruction using high-efficiency plasmonic metasurface mosaic filters. <i>Optica</i> , 2020 , 7, 632	8.6	10
27	. <i>IEEE Sensors Journal</i> , 2019 , 19, 7319-7327	4	8
26	Fabrication of Multilevel Silicon Diffractive Lens at Terahertz Frequency. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 479-485	3.4	8
25	An integrated portable system for single chip simultaneous measurement of multiple disease associated metabolites. <i>Biosensors and Bioelectronics</i> , 2018 , 122, 88-94	11.8	8
24	Towards Portable Nanophotonic Sensors. <i>Sensors</i> , 2019 , 19,	3.8	7
23	. <i>IEEE Sensors Journal</i> , 2018 , 18, 9188-9194	4	7
22	Disposable Paper-on-CMOS Platform for Real-Time Simultaneous Detection of Metabolites. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 2417-2426	5	4
21	GaN UV detectors for protein studies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 563, 27-30	1.2	4
20	Recent progress in plasmonic colour filters for image sensor and multispectral applications 2016 ,		4
19	Capsule Endoscopy Compatible Fluorescence Imager Demonstrated Using Bowel Cancer Tumours. <i>IEEE Sensors Journal</i> , 2020 , 20, 9763-9771	4	3
18	Simple e-beam air-bridge technology for mm-wave applications. <i>Microelectronic Engineering</i> , 2012 , 98, 262-265	2.5	3
17	Simulation, fabrication and characterization of THz metamaterial absorbers. <i>Journal of Visualized Experiments</i> , 2012 ,	1.6	3
16	GaN UV detectors for synchrotron-based protein structure studies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 546, 131-134	1.2	3
15	Monolithic integration of a plasmonic sensor with CMOS technology 2017 ,		2
14	The Multicorder: A Handheld Multimodal Metabolomics-on-CMOS Sensing Platform 2019 ,		2
13	Terahertz imaging using a monolithic metamaterial based detector 2014 ,		2
12	Method for vector characterization of polar liquids using frequency-domain spectroscopy. <i>Optics Letters</i> , 2011 , 36, 3329-31	3	2
11	Terahertz surface plasmon resonance of periodic silicon micro-dot arrays 2010 ,		2

10	THz band pass filter on plastic substrates and its application on biological sensing 2010 ,		2
9	A monolithic single-chip point-of-care platform for metabolomic prostate cancer detection. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 21	7.7	2
8	A Nipkow disk integrated with Fresnel lenses for terahertz single pixel imaging. <i>Optics Express</i> , 2013 , 21, 24452-9	3.3	1
7	Millimeter-wave coplanar stripline power dividers. <i>International Journal of Microwave and Wireless Technologies</i> , 2013 , 5, 205-212	0.8	1
6	Terahertz frequency domain spectroscopy for polar alcohol 2011 ,		1
5	Terahertz imagers based on metamaterial structures monolithically integrated in standard CMOS technologies 2018 ,		1
4	Simultaneous multi-spectral, single-photon fluorescence imaging using a plasmonic colour filter array. <i>Journal of Biophotonics</i> , 2021 , 14, e202000505	3.1	1
3	Comparative analysis of void-containing and all-semiconductor 1.5 μm InP-based photonic crystal surface-emitting laser diodes. <i>AIP Advances</i> , 2021 , 11, 065315	1.5	1
2	Imprinted quarter wave plate at terahertz frequency. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C6M83-C6M87	1.3	0
1	Terahertz Control. <i>Springer Series in Optical Sciences</i> , 2014 , 179-202	0.5	