

# James Grant

## List of Publications by Year in descending order

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69  
papers

3,590  
citations

236925

25  
h-index

144013

57  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4016  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 043001.	2.8	1,160
2	A terahertz polarization insensitive dual band metamaterial absorber. <i>Optics Letters</i> , 2011, 36, 945.	3.3	447
3	Polarization insensitive, broadband terahertz metamaterial absorber. <i>Optics Letters</i> , 2011, 36, 3476.	3.3	384
4	Polarization insensitive terahertz metamaterial absorber. <i>Optics Letters</i> , 2011, 36, 1524.	3.3	156
5	Octave-Spanning Broadband Absorption of Terahertz Light Using Metasurface Fractal-Cross Absorbers. <i>ACS Photonics</i> , 2017, 4, 2604-2612.	6.6	144
6	A monolithic resonant terahertz sensor element comprising a metamaterial absorber and microbolometer. <i>Laser and Photonics Reviews</i> , 2013, 7, 1043-1048.	8.7	85
7	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.	1.6	71
8	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.	1.6	67
9	Multi-Spectral Materials: Hybridisation of Optical Plasmonic Filters and a Terahertz Metamaterial Absorber. <i>Advanced Optical Materials</i> , 2014, 2, 149-153.	7.3	67
10	Enhanced Photoelectric and Photothermal Responses on Silicon Platform by Plasmonic Absorber and Omnidirectional Schottky Junction. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700059.	8.7	58
11	Terahertz Metamaterial Absorbers Implemented in CMOS Technology for Imaging Applications: Scaling to Large Format Focal Plane Arrays. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-8.	2.9	58
12	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.	3.4	55
13	Ultra-narrow Line Width Polarization-Insensitive Filter Using a Symmetry-Breaking Selective Plasmonic Metasurface. <i>ACS Photonics</i> , 2018, 5, 663-669.	6.6	52
14	Metamaterial-Based Terahertz Imaging. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015, 5, 892-901.	3.1	50
15	Uncooled CMOS terahertz imager using a metamaterial absorber and pn diode. <i>Optics Letters</i> , 2016, 41, 3261.	3.3	47
16	Unity Integration of Grating Slot Waveguide and Microfluid for Terahertz Sensing. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800078.	8.7	39
17	CMOS compatible metamaterial absorbers for hyperspectral medium wave infrared imaging and sensing applications. <i>Optics Express</i> , 2018, 26, 10408.	3.4	38
18	Narrowband multispectral filter set for visible band. <i>Optics Express</i> , 2012, 20, 21917.	3.4	34

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19	An Integrated Circuit for Chip-Based Analysis of Enzyme Kinetics and Metabolite Quantification. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 721-730.	4.0	34
20	Low-Loss Terahertz Artificial Dielectric Birefringent Quarter-Wave Plates. IEEE Photonics Technology Letters, 2010, 22, 79-81.	2.5	31
21	Imprinted terahertz artificial dielectric quarter wave plates. Optics Express, 2010, 18, 12168.	3.4	31
22	Plasmonic Sensor Monolithically Integrated with a CMOS Photodiode. ACS Photonics, 2016, 3, 1926-1933.	6.6	29
23	Exploitation of Magnetic Dipole Resonances in Metal-Insulator-Metal Plasmonic Nanostructures to Selectively Filter Visible Light. ACS Photonics, 2018, 5, 1250-1261.	6.6	29
24	Ultralow-light-level color image reconstruction using high-efficiency plasmonic metasurface mosaic filters. Optica, 2020, 7, 632.	9.3	28
25	Multispectral metamaterial absorber. Optics Letters, 2014, 39, 1227.	3.3	26
26	Multimodal Integrated Sensor Platform for Rapid Biomarker Detection. IEEE Transactions on Biomedical Engineering, 2020, 67, 614-623.	4.2	26
27	Terahertz Frequency-Domain Spectroscopy Method for Vector Characterization of Liquid Using an Artificial Dielectric. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 113-122.	3.1	25
28	Hybrid localized surface plasmon resonance and quartz crystal microbalance sensor for label free biosensing. Biosensors and Bioelectronics, 2018, 100, 23-27.	10.1	22
29	A Colorimetric CMOS-Based Platform for Rapid Total Serum Cholesterol Quantification. IEEE Sensors Journal, 2017, 17, 240-247.	4.7	21
30	Terahertz localized surface plasmon resonance of periodic silicon microring arrays. Journal of Applied Physics, 2011, 109, .	2.5	20
31	Hybridization of optical plasmonics with terahertz metamaterials to create multi-spectral filters. Optics Express, 2013, 21, 19142.	3.4	20
32	A 16 x 16 CMOS Amperometric Microelectrode Array for Simultaneous Electrochemical Measurements. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2821-2831.	5.4	17
33	Alignment-insensitive bilayer THz metasurface absorbers exceeding 100% bandwidth. Optics Express, 2019, 27, 20886.	3.4	17
34	1D silicon nitride grating refractive index sensor suitable for integration with CMOS detectors. IEEE Photonics Journal, 2017, , 1-1.	2.0	16
35	A 64x64 SPAD Array for Portable Colorimetric Sensing, Fluorescence and X-Ray Imaging. IEEE Sensors Journal, 2019, 19, 7319-7327.	4.7	16
36	Application of terahertz spectroscopy to the characterization of biological samples using birefringence silicon grating. Journal of Biomedical Optics, 2012, 17, 067006.	2.6	15

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37	Towards Portable Nanophotonic Sensors. <i>Sensors</i> , 2019, 19, 1715.	3.8	15
38	Terahertz single pixel imaging based on a Nipkow disk. <i>Optics Letters</i> , 2012, 37, 1484.	3.3	14
39	A monolithic single-chip point-of-care platform for metabolomic prostate cancer detection. <i>Microsystems and Nanoengineering</i> , 2021, 7, 21.	7.0	14
40	An integrated portable system for single chip simultaneous measurement of multiple disease associated metabolites. <i>Biosensors and Bioelectronics</i> , 2018, 122, 88-94.	10.1	12
41	Fabrication of Multilevel Silicon Diffractive Lens at Terahertz Frequency. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 479-485.	3.1	10
42	Disposable Paper-on-CMOS Platform for Real-Time Simultaneous Detection of Metabolites. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 2417-2426.	4.2	10
43	Capsule Endoscopy Compatible Fluorescence Imager Demonstrated Using Bowel Cancer Tumours. <i>IEEE Sensors Journal</i> , 2020, 20, 9763-9771.	4.7	9
44	CMOS Nanophotonic Sensor With Integrated Readout System. <i>IEEE Sensors Journal</i> , 2018, 18, 9188-9194.	4.7	8
45	Recent progress in plasmonic colour filters for image sensor and multispectral applications. <i>Proceedings of SPIE</i> , 2016, , .	0.8	7
46	Simple e-beam air-bridge technology for mm-wave applications. <i>Microelectronic Engineering</i> , 2012, 98, 262-265.	2.4	5
47	The Multicorder: A Handheld Multimodal Metabolomics-on-CMOS Sensing Platform. , 2019, , .		5
48	Comparative analysis of void-containing and all-semiconductor 1.5 $\mu\text{m}$ InP-based photonic crystal surface-emitting laser diodes. <i>AIP Advances</i> , 2021, 11, .	1.3	5
49	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.	1.6	4
50	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.	1.6	4
51	THz band pass filter on plastic substrates and its application on biological sensing. , 2010, , .		4
52	Simulation, Fabrication and Characterization of THz Metamaterial Absorbers. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	4
53	Simultaneous multi-spectral, single-photon fluorescence imaging using a plasmonic colour filter array. <i>Journal of Biophotonics</i> , 2021, 14, e202000505.	2.3	4
54	A Nipkow disk integrated with Fresnel lenses for terahertz single pixel imaging. <i>Optics Express</i> , 2013, 21, 24452.	3.4	3

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55	Terahertz imaging using a monolithic metamaterial based detector. , 2014, , .		3
56	Terahertz surface plasmon resonance of periodic silicon micro-dot arrays. , 2010, , .		2
57	Method for vector characterization of polar liquids using frequency-domain spectroscopy. Optics Letters, 2011, 36, 3329.	3.3	2
58	A coplanar ring power divider with high isolation for V-band and W-band applications. , 2012, , .		2
59	Millimeter-wave coplanar stripline power dividers. International Journal of Microwave and Wireless Technologies, 2013, 5, 205-212.	1.9	2
60	Monolithic integration of a plasmonic sensor with CMOS technology. Proceedings of SPIE, 2017, , .	0.8	2
61	Imprinted quarter wave plate at terahertz frequency. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6M83-C6M87.	1.2	1
62	Terahertz frequency domain spectroscopy for polar alcohol. , 2011, , .		1
63	Terahertz imagers based on metamaterial structures monolithically integrated in standard CMOS technologies. , 2018, , .		1
64	Assessing the Salt Constituents Characteristics in Aqueous Solutions Using Terahertz Waves. , 2020, , .		1
65	Fabrication of silicon quarter wave plate at Terahertz frequency. , 2010, , .		0
66	Multiple THz surface plasmon resonances of periodic split ring arrays in silicon. , 2010, , .		0
67	Optical and near infrared plasmonic filters integrated with terahertz metamaterials. , 2014, , .		0
68	CMOS terahertz metamaterial based 64 Å– 64 bolometric detector arrays. , 2017, , .		0
69	Terahertz Control. Springer Series in Optical Sciences, 2014, , 179-202.	0.7	0