

James Grant

List of Publications by Year in descending order

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Version: 2024-02-01

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	A monolithic single-chip point-of-care platform for metabolomic prostate cancer detection. <i>Microsystems and Nanoengineering</i> , 2021, 7, 21.	7.0	14
2	Simultaneous multi-spectral, single-photon fluorescence imaging using a plasmonic colour filter array. <i>Journal of Biophotonics</i> , 2021, 14, e202000505.	2.3	4
3	Comparative analysis of void-containing and all-semiconductor 1.5 μm InP-based photonic crystal surface-emitting laser diodes. <i>ALP Advances</i> , 2021, 11, .	1.3	5
4	Multimodal Integrated Sensor Platform for Rapid Biomarker Detection. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 614-623.	4.2	26
5	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
6	Capsule Endoscopy Compatible Fluorescence Imager Demonstrated Using Bowel Cancer Tumours. <i>IEEE Sensors Journal</i> , 2020, 20, 9763-9771.	4.7	9
7	Ultralow-light-level color image reconstruction using high-efficiency plasmonic metasurface mosaic filters. <i>Optica</i> , 2020, 7, 632.	9.3	28
8	Assessing the Salt Constituents Characteristics in Aqueous Solutions Using Terahertz Waves. , 2020, , .		1
9	The Multicorder: A Handheld Multimodal Metabolomics-on-CMOS Sensing Platform. , 2019, , .		5
10	A 64×64 SPAD Array for Portable Colorimetric Sensing, Fluorescence and X-Ray Imaging. <i>IEEE Sensors Journal</i> , 2019, 19, 7319-7327.	4.7	16
11	Towards Portable Nanophotonic Sensors. <i>Sensors</i> , 2019, 19, 1715.	3.8	15
12	Alignment-insensitive bilayer THz metasurface absorbers exceeding 100% bandwidth. <i>Optics Express</i> , 2019, 27, 20886.	3.4	17
13	A 16×16 CMOS Amperometric Microelectrode Array for Simultaneous Electrochemical Measurements. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018, 65, 2821-2831.	5.4	17
14	Exploitation of Magnetic Dipole Resonances in Metal-Insulator-Metal Plasmonic Nanostructures to Selectively Filter Visible Light. <i>ACS Photonics</i> , 2018, 5, 1250-1261.	6.6	29
15	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
16	CMOS Nanophotonic Sensor With Integrated Readout System. <i>IEEE Sensors Journal</i> , 2018, 18, 9188-9194.	4.7	8
17	Unity Integration of Grating Slot Waveguide and Microfluid for Terahertz Sensing. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800078.	8.7	39
18	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

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19	CMOS compatible metamaterial absorbers for hyperspectral medium wave infrared imaging and sensing applications. Optics Express, 2018, 26, 10408.	3.4	38
20	Hybrid localized surface plasmon resonance and quartz crystal microbalance sensor for label free biosensing. Biosensors and Bioelectronics, 2018, 100, 23-27.	10.1	22
21	Terahertz imagers based on metamaterial structures monolithically integrated in standard CMOS technologies. , 2018, , .		1
22	1D silicon nitride grating refractive index sensor suitable for integration with CMOS detectors. IEEE Photonics Journal, 2017, , 1-1.	2.0	16
23	Monolithic integration of a plasmonic sensor with CMOS technology. Proceedings of SPIE, 2017, , .	0.8	2
24	A Colorimetric CMOS-Based Platform for Rapid Total Serum Cholesterol Quantification. IEEE Sensors Journal, 2017, 17, 240-247.	4.7	21
25	The 2017 terahertz science and technology roadmap. Journal Physics D: Applied Physics, 2017, 50, 043001.	2.8	1,160
26	Octave-Spanning Broadband Absorption of Terahertz Light Using Metasurface Fractal-Cross Absorbers. ACS Photonics, 2017, 4, 2604-2612.	6.6	144
27	Enhanced Photoelectric and Photothermal Responses on Silicon Platform by Plasmonic Absorber and Omni-Directional Schottky Junction. Laser and Photonics Reviews, 2017, 11, 1700059.	8.7	58
28	Terahertz Metamaterial Absorbers Implemented in CMOS Technology for Imaging Applications: Scaling to Large Format Focal Plane Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	2.9	58
29	CMOS terahertz metamaterial based 64 Å— 64 bolometric detector arrays. , 2017, , .		0
30	Recent progress in plasmonic colour filters for image sensor and multispectral applications. Proceedings of SPIE, 2016, , .	0.8	7
31	Plasmonic Sensor Monolithically Integrated with a CMOS Photodiode. ACS Photonics, 2016, 3, 1926-1933.	6.6	29
32	Uncooled CMOS terahertz imager using a metamaterial absorber and pn diode. Optics Letters, 2016, 41, 3261.	3.3	47
33	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
34	Multi-spectral materials: hybridisation of optical plasmonic filters, a mid infrared metamaterial absorber and a terahertz metamaterial absorber. Optics Express, 2016, 24, 3451.	3.4	55
35	Metamaterial-Based Terahertz Imaging. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 892-901.	3.1	50
36	Multispectral metamaterial absorber. Optics Letters, 2014, 39, 1227.	3.3	26

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37	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
38	Terahertz imaging using a monolithic metamaterial based detector. , 2014, , .		3
39	Optical and near infrared plasmonic filters integrated with terahertz metamaterials. , 2014, , .		0
40	Terahertz Control. <i>Springer Series in Optical Sciences</i> , 2014, , 179-202.	0.7	0
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	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
43	A Nipkow disk integrated with Fresnel lenses for terahertz single pixel imaging. <i>Optics Express</i> , 2013, 21, 24452.	3.4	3
44	Hybridization of optical plasmonics with terahertz metamaterials to create multi-spectral filters. <i>Optics Express</i> , 2013, 21, 19142.	3.4	20
45	Millimeter-wave coplanar stripline power dividers. <i>International Journal of Microwave and Wireless Technologies</i> , 2013, 5, 205-212.	1.9	2
46	Application of terahertz spectroscopy to the characterization of biological samples using birefringence silicon grating. <i>Journal of Biomedical Optics</i> , 2012, 17, 067006.	2.6	15
47	Terahertz single pixel imaging based on a Nipkow disk. <i>Optics Letters</i> , 2012, 37, 1484.	3.3	14
48	Narrowband multispectral filter set for visible band. <i>Optics Express</i> , 2012, 20, 21917.	3.4	34
49	Simulation, Fabrication and Characterization of THz Metamaterial Absorbers. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	4
50	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.	3.1	25
51	Simple e-beam air-bridge technology for mm-wave applications. <i>Microelectronic Engineering</i> , 2012, 98, 262-265.	2.4	5
52	A coplanar ring power divider with high isolation for V-band and W-band applications. , 2012, , .		2
53	Terahertz frequency domain spectroscopy for polar alcohol. , 2011, , .		1
54	A terahertz polarization insensitive dual band metamaterial absorber. <i>Optics Letters</i> , 2011, 36, 945.	3.3	447

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55	Polarization insensitive terahertz metamaterial absorber. Optics Letters, 2011, 36, 1524.	3.3	156
56	Method for vector characterization of polar liquids using frequency-domain spectroscopy. Optics Letters, 2011, 36, 3329.	3.3	2
57	Polarization insensitive, broadband terahertz metamaterial absorber. Optics Letters, 2011, 36, 3476.	3.3	384
58	Terahertz localized surface plasmon resonance of periodic silicon microring arrays. Journal of Applied Physics, 2011, 109, .	2.5	20
59	Imprinted quarter wave plate at terahertz frequency. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6M83-C6M87.	1.2	1
60	Terahertz surface plasmon resonance of periodic silicon micro-dot arrays. , 2010, , .		2
61	Fabrication of silicon quarter wave plate at Terahertz frequency. , 2010, , .		0
62	Multiple THz surface plasmon resonances of periodic split ring arrays in silicon. , 2010, , .		0
63	Low-Loss Terahertz Artificial Dielectric Birefringent Quarter-Wave Plates. IEEE Photonics Technology Letters, 2010, 22, 79-81.	2.5	31
64	Imprinted terahertz artificial dielectric quarter wave plates. Optics Express, 2010, 18, 12168.	3.4	31
65	THz band pass filter on plastic substrates and its application on biological sensing. , 2010, , .		4
66	GaN as a radiation hard particle detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 576, 60-65.	1.6	71
67	GaN UV detectors for protein studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 563, 27-30.	1.6	4
68	Wide bandgap semiconductor detectors for harsh radiation environments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 546, 213-217.	1.6	67
69	GaN UV detectors for synchrotron-based protein structure studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 546, 131-134.	1.6	4