James Grant

List of Publications by Year in descending order

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41 papers	1,424 citations	471509 17 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	1622 citing authors

#	Article	IF	Citations
1	A terahertz polarization insensitive dual band metamaterial absorber. Optics Letters, 2011, 36, 945.	3.3	447
2	Polarization insensitive terahertz metamaterial absorber. Optics Letters, 2011, 36, 1524.	3.3	156
3	A monolithic resonant terahertz sensor element comprising a metamaterial absorber and microâ€bolometer. Laser and Photonics Reviews, 2013, 7, 1043-1048.	8.7	85
4	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
5	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
6	Multiâ€Spectral Materials: Hybridisation of Optical Plasmonic Filters and a Terahertz Metamaterial Absorber. Advanced Optical Materials, 2014, 2, 149-153.	7.3	67
7	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
8	Metamaterial-Based Terahertz Imaging. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 892-901.	3.1	50
9	Uncooled CMOS terahertz imager using a metamaterial absorber and pn diode. Optics Letters, 2016, 41, 3261.	3.3	47
10	Analyzing mechanisms and microscopic reversibility of self-assembly. Journal of Chemical Physics, 2011, 135, 214505.	3.0	39
11	CMOS compatible metamaterial absorbers for hyperspectral medium wave infrared imaging and sensing applications. Optics Express, 2018, 26, 10408.	3.4	38
12	Narrowband multispectral filter set for visible band. Optics Express, 2012, 20, 21917.	3.4	34
13	Exploitation of Magnetic Dipole Resonances in Metalâ€“Insulatorâ€“Metal Plasmonic Nanostructures to Selectively Filter Visible Light. ACS Photonics, 2018, 5, 1250-1261.	6.6	29
14	Multispectral metamaterial absorber. Optics Letters, 2014, 39, 1227.	3.3	26
15	Terahertz localized surface plasmon resonance of periodic silicon microring arrays. Journal of Applied Physics, 2011, 109, .	2.5	20
16	Hybridization of optical plasmonics with terahertz metamaterials to create multi-spectral filters. Optics Express, 2013, 21, 19142.	3.4	20
17	DL_MONTE: a multipurpose code for Monte Carlo simulation. Molecular Simulation, 2021, 47, 131-151.	2.0	19
18	Alignment-insensitive bilayer THz metasurface absorbers exceeding 100% bandwidth. Optics Express, 2019, 27, 20886.	3.4	17

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19	Carbonation of Hydrous Materials at the Molecular Level: A Time of Flight-Secondary Ion Mass Spectrometry, Raman and Density Functional Theory Study. Crystal Growth and Design, 2017, 17, 1036-1044.	3.0	16
20	Terahertz single pixel imaging based on a Nipkow disk. Optics Letters, 2012, 37, 1484.	3.3	14
21	Quantifying reversibility in a phase-separating lattice gas: An analogy with self-assembly. Physical Review E, 2012, 85, 021112.	2.1	11
22	Disposable Paper-on-CMOS Platform for Real-Time Simultaneous Detection of Metabolites. IEEE Transactions on Biomedical Engineering, 2020, 67, 2417-2426.	4.2	10
23	Assessing molecular simulation for the analysis of lipid monolayer reflectometry. Journal of Physics Communications, 2019, 3, 075001.	1.2	9
24	An experimental and computational study to resolve the composition of dolomitic lime. RSC Advances, 2016, 6, 16066-16072.	3.6	8
25	CMOS Nanophotonic Sensor With Integrated Readout System. IEEE Sensors Journal, 2018, 18, 9188-9194.	4.7	8
26	Recent progress in plasmonic colour filters for image sensor and multispectral applications. Proceedings of SPIE, 2016, , .	0.8	7
27	Fast electrostatic solvers for kinetic Monte Carlo simulations. Journal of Computational Physics, 2020, 410, 109379.	3.8	7
28	A domain specific language for performance portable molecular dynamics algorithms. Computer Physics Communications, 2018, 224, 119-135.	7.5	6
29	Simple e-beam air-bridge technology for mm-wave applications. Microelectronic Engineering, 2012, 98, 262-265.	2.4	5
30	PrAna: an R package to calculate and visualize England NHS primary care prescribing data. BMC Medical Informatics and Decision Making, 2022, 22, 5.	3.0	5
31	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
32	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
33	A Nipkow disk integrated with Fresnel lenses for terahertz single pixel imaging. Optics Express, 2013, 21, 24452.	3.4	3
34	Terahertz imaging using a monolithic metamaterial based detector. , 2014, , .		3
35	Molecular simulation of hydrogen storage and transport in cellulose. Molecular Simulation, 2021, 47, 170-179.	2.0	3
36	Data Without Software Are Just Numbers. Data Science Journal, 2020, 19, .	1.3	3

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37	An introduction to classical molecular dynamics simulation for experimental scattering users. Journal of Applied Crystallography, 2019, 52, 665-668.	4.5	3
38	High synergy atomic layer etching of AlGaN/GaN with HBr and Ar. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 042601.	2.1	3
39	Millimeter-wave coplanar stripline power dividers. International Journal of Microwave and Wireless Technologies, 2013, 5, 205-212.	1.9	2
40	A new algorithm for electrostatic interactions in Monte Carlo simulations of charged particles. Journal of Computational Physics, 2021, 430, 110099.	3.8	2
41	Lithium-drifted silicon for harsh radiation environments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 184-187.	1.6	1