James Grant

List of Publications by Year
in descending order

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	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
2	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
3	Molecular simulation of hydrogen storage and transport in cellulose. Molecular Simulation, 2021, 47, 170-179.	2.0	3
4	DL_MONTE: a multipurpose code for Monte Carlo simulation. Molecular Simulation, 2021, 47, 131-151.	2.0	19
5	A new algorithm for electrostatic interactions in Monte Carlo simulations of charged particles. Journal of Computational Physics, 2021, 430, 110099.	3.8	2
6	Fast electrostatic solvers for kinetic Monte Carlo simulations. Journal of Computational Physics, 2020, 410, 109379.	3.8	7
7	Disposable Paper-on-CMOS Platform for Real-Time Simultaneous Detection of Metabolites. IEEE Transactions on Biomedical Engineering, 2020, 67, 2417-2426.	4.2	10
8	Data Without Software Are Just Numbers. Data Science Journal, 2020, 19, .	1.3	3
9	Assessing molecular simulation for the analysis of lipid monolayer reflectometry. Journal of Physics Communications, 2019, 3, 075001.	1.2	9
10	Alignment-insensitive bilayer THz metasurface absorbers exceeding 100% bandwidth. Optics Express, 2019, 27, 20886.	3.4	17
11	An introduction to classical molecular dynamics simulation for experimental scattering users. Journal of Applied Crystallography, 2019, 52, 665-668.	4.5	3
12	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
13	A domain specific language for performance portable molecular dynamics algorithms. Computer Physics Communications, 2018, 224, 119-135.	7.5	6
14	CMOS Nanophotonic Sensor With Integrated Readout System. IEEE Sensors Journal, 2018, 18, 9188-9194.	4.7	8
15	CMOS compatible metamaterial absorbers for hyperspectral medium wave infrared imaging and sensing applications. Optics Express, 2018, 26, 10408.	3.4	38
16	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
17	Recent progress in plasmonic colour filters for image sensor and multispectral applications. Proceedings of SPIE, 2016, , .	0.8	7
18	Uncooled CMOS terahertz imager using a metamaterial absorber and pn diode. Optics Letters, 2016, 41, 3261.	3.3	47

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19	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
20	An experimental and computational study to resolve the composition of dolomitic lime. RSC Advances, 2016, 6, 16066-16072.	3.6	8
21	Metamaterial-Based Terahertz Imaging. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 892-901.	3.1	50
22	Multispectral metamaterial absorber. Optics Letters, 2014, 39, 1227.	3.3	26
23	Multiâ€Spectral Materials: Hybridisation of Optical Plasmonic Filters and a Terahertz Metamaterial Absorber. Advanced Optical Materials, 2014, 2, 149-153.	7.3	67
24	Terahertz imaging using a monolithic metamaterial based detector. , 2014, , .		3
25	A monolithic resonant terahertz sensor element comprising a metamaterial absorber and microâ€bolometer. Laser and Photonics Reviews, 2013, 7, 1043-1048.	8.7	85
26	A Nipkow disk integrated with Fresnel lenses for terahertz single pixel imaging. Optics Express, 2013, 21, 24452.	3.4	3
27	Hybridization of optical plasmonics with terahertz metamaterials to create multi-spectral filters. Optics Express, 2013, 21, 19142.	3.4	20
28	Millimeter-wave coplanar stripline power dividers. International Journal of Microwave and Wireless Technologies, 2013, 5, 205-212.	1.9	2
29	Terahertz single pixel imaging based on a Nipkow disk. Optics Letters, 2012, 37, 1484.	3.3	14
30	Narrowband multispectral filter set for visible band. Optics Express, 2012, 20, 21917.	3.4	34
31	Quantifying reversibility in a phase-separating lattice gas: An analogy with self-assembly. Physical Review E, 2012, 85, 021112.	2.1	11
32	Simple e-beam air-bridge technology for mm-wave applications. Microelectronic Engineering, 2012, 98, 262-265.	2.4	5
33	A terahertz polarization insensitive dual band metamaterial absorber. Optics Letters, 2011, 36, 945.	3.3	447
34	Polarization insensitive terahertz metamaterial absorber. Optics Letters, 2011, 36, 1524.	3.3	156
35	Terahertz localized surface plasmon resonance of periodic silicon microring arrays. Journal of Applied Physics, 2011, 109, .	2.5	20
36	Analyzing mechanisms and microscopic reversibility of self-assembly. Journal of Chemical Physics, 2011, 135, 214505.	3.0	39

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37	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
38	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
39	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
40	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
41	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