

# Darren Graham

## List of Publications by Year in descending order

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55  
papers

1,177  
citations

516215

16  
h-index

377514

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57  
all docs

57  
docs citations

57  
times ranked

1778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spintronic terahertz emitters exploiting uniaxial magnetic anisotropy for field-free emission and polarization control. Applied Physics Letters, 2022, 120, .	1.5	6
2	Dispersion in dielectric-lined waveguides designed for terahertz-driven deflection of electron beams. Applied Physics Letters, 2021, 118, .	1.5	5
3	Spintronic terahertz emitters: Status and prospects from a materials perspective. APL Materials, 2021, 9, .	2.2	43
4	Six-dimensional phase space preservation in a terahertz-driven multistage dielectric-lined rectangular waveguide accelerator. Physical Review Accelerators and Beams, 2021, 24, .	0.6	2
5	Acceleration of relativistic beams using laser-generated terahertz pulses. Nature Photonics, 2020, 14, 755-759.	15.6	68
6	Terahertz driven bunch compression and longitudinal diagnostics of 100 keV electron beams. , 2020, , .		0
7	Terahertz generation in gallium nitride quantum wells. , 2019, , .		0
8	Magnetic-field tailoring of the terahertz polarization emitted from a spintronic source. Applied Physics Letters, 2019, 114, .	1.5	56
9	Impact of alloy fluctuations and Coulomb effects on the electronic and optical properties of c-plane GaN/AlGaIn quantum wells. Scientific Reports, 2019, 9, 18862.	1.6	11
10	Observation of the $\langle b \rangle^{\dagger}$ mechanism resulting from the ultrafast spin dynamics that follow the photolysis of coenzyme B12. Journal of Chemical Physics, 2019, 151, 201102.	1.2	5
11	Spatial and Temporal Field Evolution of Evanescent Single-Cycle THz Pulses. , 2019, , .		0
12	Terahertz-driven acceleration of a relativistic 35 MeV electron beam. , 2019, , .		0
13	Role of magnetic field in THz emission from a spintronic source. , 2019, , .		1
14	Demonstration of sub-luminal propagation of single-cycle terahertz pulses for particle acceleration. Nature Communications, 2017, 8, 421.	5.8	29
15	Terahertz cyclotron resonance spectroscopy of an AlGaIn/GaN heterostructure using a high-field pulsed magnet and an asynchronous optical sampling technique. Applied Physics Letters, 2016, 108, 212101.	1.5	8
16	Longitudinally polarized single-cycle terahertz pulses generated with high electric field strengths. Applied Physics Letters, 2016, 108, 221102.	1.5	15
17	Terahertz magnetospectroscopy studies of an AlGaIn/GaN heterostructure. , 2016, , .		0
18	Investigating efficiency droop in InGaIn/GaN quantum well structures using ultrafast time-resolved terahertz and photoluminescence spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 252-255.	0.8	1

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19	Electronic Structure of a Mixed-Metal Fluoride-Centered Triangle Complex: A Potential Qubit Component. <i>Inorganic Chemistry</i> , 2015, 54, 12019-12026.	1.9	16
20	Chemically-specific time-resolved surface photovoltage spectroscopy: Carrier dynamics at the interface of quantum dots attached to a metal oxide. <i>Surface Science</i> , 2015, 641, 320-325.	0.8	17
21	Dynamics in next-generation solar cells: time-resolved surface photovoltage measurements of quantum dots chemically linked to ZnO (101 <sub>1</sub> ,0). <i>Faraday Discussions</i> , 2014, 171, 275-298.	1.6	20
22	Generation of longitudinally polarized terahertz pulses with field amplitudes exceeding 2 kV/cm. <i>Applied Physics Letters</i> , 2014, 105, 191112.	1.5	22
23	Role of misalignment-induced angular chirp in the electro-optic detection of THz waves. <i>Optics Express</i> , 2014, 22, 12028.	1.7	6
24	Adsorption and stability of malonic acid on rutile TiO <sub>2</sub> (110), studied by near edge X-ray absorption fine structure and photoelectron spectroscopy. <i>Surface Science</i> , 2014, 626, 14-20.	0.8	11
25	Time-resolved surface photovoltage measurements of type photovoltaic surfaces: Si(111) and ZnO(100). <i>Journal of Applied Physics</i> , 2013, 114, 114301.	1.1	61
26	Determining carrier multiplication efficiencies: Time-resolved terahertz spectroscopy on colloidal quantum dot solutions. <i>Journal of Applied Physics</i> , 2013, 114, 114301.	1.1	0
27	Developing terahertz sources with longitudinal polarisation components for the energy modulation of relativistic electrons. <i>Journal of Applied Physics</i> , 2013, 114, 114301.	1.1	0
28	Growth and Characterization of Strained and Alloyed Type-II ZnTe/ZnSe Core-Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26898-26907.	1.5	50
29	Results from the Daresbury Compton backscattering X-ray source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 689, 108-114.	0.7	7
30	A study of the valence shell spectroscopic and thermodynamic properties of trifluoronitrosomethane cations. <i>Chemical Physics</i> , 2012, 394, 1-8.	0.9	1
31	Controlled Synthesis of Tuned Bandgap Nanodimensional Alloys of PbS <sub>x</sub> Se <sub>1-x</sub> . <i>Journal of the American Chemical Society</i> , 2011, 133, 5602-5609.	6.6	59
32	Electronic and surface properties of PbS nanoparticles exhibiting efficient multiple exciton generation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20275.	1.3	76
33	A greener route to photoelectrochemically active PbS nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 2336.	6.7	93
34	Efficient carrier multiplication in InP nanoparticles. <i>Physical Review B</i> , 2010, 81, .	1.1	98
35	Developing InP-based solar cells: Time-resolved terahertz measurements of photoconductivity and carrier multiplication efficiencies. <i>Journal of Applied Physics</i> , 2010, 107, 114301.	1.1	0
36	Electric field dependent photoluminescence studies of nanoparticle sensitized photorefractive polymers. <i>Journal of Applied Physics</i> , 2008, 103, 093702.	1.1	8

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37	The Puzzle of Exciton Localisation in GaN-Based Structures: TEM, AFM and 3D APFIM Hold the Key. Springer Proceedings in Physics, 2008, , 3-12.	0.1	2
38	The atomic structure of GaN-based quantum wells and interfaces. , 2008, , 41-42.		0
39	High photoluminescence quantum efficiency InGaN multiple quantum well structures emitting at 380nm. Journal of Applied Physics, 2007, 101, 033516.	1.1	12
40	Electric Field Dependent Photoluminescence Studies of Photorefractive Polymer/Semiconductor Nanoparticle Composites. AIP Conference Proceedings, 2007, , .	0.3	0
41	Resonant Photoluminescence Spectroscopy of InGaN/GaN Single Quantum Well Structures. AIP Conference Proceedings, 2007, , .	0.3	0
42	Optically Detected Extended X-Ray Absorption Fine Structure Study of InGaN/GaN Single Quantum Wells. AIP Conference Proceedings, 2007, , .	0.3	0
43	Optical and micro-structural properties of high photoluminescence efficiency InGaN/AlInGaN quantum well structures. Journal of Crystal Growth, 2007, 298, 504-507.	0.7	10
44	Resonant photoluminescence excitation studies of InGaN/GaN single quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2001-2004.	0.8	1
45	The effect of a Mg-doped GaN cap layer on the optical properties of InGaN/AlGaIn multiple quantum well structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2005-2008.	0.8	2
46	High quantum efficiency InGaN/GaN structures emitting at 540 nm. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 1970-1973.	0.8	12
47	Misfit dislocations in In-rich InGaN/GaN quantum well structures. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1729-1732.	0.8	48
48	A comparative study of near-UV emitting InGaN quantum wells with AlGaIn and AlInGaIn barriers. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1819-1823.	0.8	11
49	Electric fields in AlGaIn/GaN quantum well structures. Physica Status Solidi (B): Basic Research, 2006, 243, 1551-1559.	0.7	10
50	Resonant excitation photoluminescence studies of InGaN/GaN single quantum well structures. Applied Physics Letters, 2006, 89, 211901.	1.5	16
51	Determination of relative internal quantum efficiency in InGaN/GaN quantum wells. Journal of Applied Physics, 2005, 98, 053509.	1.1	22
52	Optical and microstructural studies of InGaN/GaN single-quantum-well structures. Journal of Applied Physics, 2005, 97, 103508.	1.1	200
53	GaN/InGaIn quantum wells grown in a close coupled showerhead reactor. Journal of Crystal Growth, 2003, 248, 518-522.	0.7	10
54	Exciton localization in InGaIn/GaN single quantum well structures. Physica Status Solidi (B): Basic Research, 2003, 240, 344-347.	0.7	17

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55	GaN-InGaN Quantum Well and LED Structures Grown in a Close Coupled Showerhead (CCS) MOCVD Reactor. Physica Status Solidi A, 2002, 192, 354-359.	1.7	9