

Darren Graham

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,177
citations

516215

16
h-index

377514

34
g-index

57
all docs

57
docs citations

57
times ranked

1778
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Optical and microstructural studies of InGaN ^x -GaN single-quantum-well structures. Journal of Applied Physics, 2005, 97, 103508. | 1.1 | 200 |
| 2 | Efficient carrier multiplication in InP nanoparticles. Physical Review B, 2010, 81, . | 1.1 | 98 |
| 3 | A greener route to photoelectrochemically active PbS nanoparticles. Journal of Materials Chemistry, 2010, 20, 2336. | 6.7 | 93 |
| 4 | Electronic and surface properties of PbS nanoparticles exhibiting efficient multiple exciton generation. Physical Chemistry Chemical Physics, 2011, 13, 20275. | 1.3 | 76 |
| 5 | Acceleration of relativistic beams using laser-generated terahertz pulses. Nature Photonics, 2020, 14, 755-759. | 15.6 | 68 |
| 6 | Time-resolved surface photovoltage measurements at $\lambda = 1064$ nm on Si(111) and ZnO(100) surfaces. Physical Review B, 2013, 88, . | 1.1 | 61 |
| 7 | Controlled Synthesis of Tuned Bandgap Nanodimensional Alloys of PbS _x Se _{1-x} . Journal of the American Chemical Society, 2011, 133, 5602-5609. | 6.6 | 59 |
| 8 | Magnetic-field tailoring of the terahertz polarization emitted from a spintronic source. Applied Physics Letters, 2019, 114, . | 1.5 | 56 |
| 9 | Growth and Characterization of Strained and Alloyed Type-II ZnTe/ZnSe Core-Shell Nanocrystals. Journal of Physical Chemistry C, 2012, 116, 26898-26907. | 1.5 | 50 |
| 10 | 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 |
| 11 | Spintronic terahertz emitters: Status and prospects from a materials perspective. APL Materials, 2021, 9, . | 2.2 | 43 |
| 12 | Demonstration of sub-luminal propagation of single-cycle terahertz pulses for particle acceleration. Nature Communications, 2017, 8, 421. | 5.8 | 29 |
| 13 | Determination of relative internal quantum efficiency in InGaN ^x -GaN quantum wells. Journal of Applied Physics, 2005, 98, 053509. | 1.1 | 22 |
| 14 | Generation of longitudinally polarized terahertz pulses with field amplitudes exceeding 2 kV/cm. Applied Physics Letters, 2014, 105, 191112. | 1.5 | 22 |
| 15 | Dynamics in next-generation solar cells: time-resolved surface photovoltage measurements of quantum dots chemically linked to ZnO (101 $\bar{1}$,0). Faraday Discussions, 2014, 171, 275-298. | 1.6 | 20 |
| 16 | Exciton localization in InGaN/GaN single quantum well structures. Physica Status Solidi (B): Basic Research, 2003, 240, 344-347. | 0.7 | 17 |
| 17 | Chemically-specific time-resolved surface photovoltage spectroscopy: Carrier dynamics at the interface of quantum dots attached to a metal oxide. Surface Science, 2015, 641, 320-325. | 0.8 | 17 |
| 18 | Resonant excitation photoluminescence studies of InGaN ^x -GaN single quantum well structures. Applied Physics Letters, 2006, 89, 211901. | 1.5 | 16 |

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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 | Longitudinally polarized single-cycle terahertz pulses generated with high electric field strengths. <i>Applied Physics Letters</i> , 2016, 108, 221102. | 1.5 | 15 |
| 21 | High quantum efficiency InGaN/GaN structures emitting at 540 nm. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 1970-1973. | 0.8 | 12 |
| 22 | High photoluminescence quantum efficiency InGaN multiple quantum well structures emitting at 380nm. <i>Journal of Applied Physics</i> , 2007, 101, 033516. | 1.1 | 12 |
| 23 | A comparative study of near-UV emitting InGaN quantum wells with AlGaN and AlInGaN barriers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1819-1823. | 0.8 | 11 |
| 24 | Adsorption and stability of malonic acid on rutile TiO ₂ (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 | Impact of alloy fluctuations and Coulomb effects on the electronic and optical properties of c-plane GaN/AlGaN quantum wells. <i>Scientific Reports</i> , 2019, 9, 18862. | 1.6 | 11 |
| 26 | GaN/InGaN quantum wells grown in a close coupled showerhead reactor. <i>Journal of Crystal Growth</i> , 2003, 248, 518-522. | 0.7 | 10 |
| 27 | Electric fields in AlGaN/GaN quantum well structures. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 1551-1559. | 0.7 | 10 |
| 28 | Optical and micro-structural properties of high photoluminescence efficiency InGaN/AlInGaN quantum well structures. <i>Journal of Crystal Growth</i> , 2007, 298, 504-507. | 0.7 | 10 |
| 29 | GaN-InGaN Quantum Well and LED Structures Grown in a Close Coupled Showerhead (CCS) MOCVD Reactor. <i>Physica Status Solidi A</i> , 2002, 192, 354-359. | 1.7 | 9 |
| 30 | Electric field dependent photoluminescence studies of nanoparticle sensitized photorefractive polymers. <i>Journal of Applied Physics</i> , 2008, 103, 093702. | 1.1 | 8 |
| 31 | Terahertz cyclotron resonance spectroscopy of an AlGaN/GaN heterostructure using a high-field pulsed magnet and an asynchronous optical sampling technique. <i>Applied Physics Letters</i> , 2016, 108, 212101. | 1.5 | 8 |
| 32 | 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 |
| 33 | Role of misalignment-induced angular chirp in the electro-optic detection of THz waves. <i>Optics Express</i> , 2014, 22, 12028. | 1.7 | 6 |
| 34 | Spintronic terahertz emitters exploiting uniaxial magnetic anisotropy for field-free emission and polarization control. <i>Applied Physics Letters</i> , 2022, 120, . | 1.5 | 6 |
| 35 | Observation of the $\langle b \rangle^{\hat{p}}$ mechanism resulting from the ultrafast spin dynamics that follow the photolysis of coenzyme B12. <i>Journal of Chemical Physics</i> , 2019, 151, 201102. | 1.2 | 5 |
| 36 | Dispersion in dielectric-lined waveguides designed for terahertz-driven deflection of electron beams. <i>Applied Physics Letters</i> , 2021, 118, . | 1.5 | 5 |

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|----|--|-----|-----------|
| 37 | The effect of a Mg-doped GaN cap layer on the optical properties of InGaN/AlGaIn multiple quantum well structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2005-2008. | 0.8 | 2 |
| 38 | The Puzzle of Exciton Localisation in GaN-Based Structures: TEM, AFM and 3D APFIM Hold the Key. <i>Springer Proceedings in Physics</i> , 2008, , 3-12. | 0.1 | 2 |
| 39 | Six-dimensional phase space preservation in a terahertz-driven multistage dielectric-lined rectangular waveguide accelerator. <i>Physical Review Accelerators and Beams</i> , 2021, 24, . | 0.6 | 2 |
| 40 | Resonant photoluminescence excitation studies of InGaN/GaN single quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2001-2004. | 0.8 | 1 |
| 41 | A study of the valence shell spectroscopic and thermodynamic properties of trifluoronitrosomethane cations. <i>Chemical Physics</i> , 2012, 394, 1-8. | 0.9 | 1 |
| 42 | Investigating efficiency droop in InGaN/GaN quantum well structures using ultrafast time-resolved terahertz and photoluminescence spectroscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016, 13, 252-255. | 0.8 | 1 |
| 43 | Role of magnetic field in THz emission from a spintronic source. , 2019, , . | | 1 |
| 44 | Electric Field Dependent Photoluminescence Studies of Photorefractive Polymer/Semiconductor Nanoparticle Composites. <i>AIP Conference Proceedings</i> , 2007, , . | 0.3 | 0 |
| 45 | Resonant Photoluminescence Spectroscopy of InGaN/GaN Single Quantum Well Structures. <i>AIP Conference Proceedings</i> , 2007, , . | 0.3 | 0 |
| 46 | Optically Detected Extended X-Ray Absorption Fine Structure Study of InGaN/GaN Single Quantum Wells. <i>AIP Conference Proceedings</i> , 2007, , . | 0.3 | 0 |
| 47 | Developing InP-based solar cells: Time-resolved terahertz measurements of photoconductivity and carrier multiplication efficiencies. , 2010, , . | | 0 |
| 48 | Determining carrier multiplication efficiencies: Time-resolved terahertz spectroscopy on colloidal quantum dot solutions. , 2013, , . | | 0 |
| 49 | Developing terahertz sources with longitudinal polarisation components for the energy modulation of relativistic electrons. , 2013, , . | | 0 |
| 50 | Terahertz magnetospectroscopy studies of an AlGaIn/GaN heterostructure. , 2016, , . | | 0 |
| 51 | Terahertz generation in gallium nitride quantum wells. , 2019, , . | | 0 |
| 52 | Spatial and Temporal Field Evolution of Evanescent Single-Cycle THz Pulses. , 2019, , . | | 0 |
| 53 | Terahertz-driven acceleration of a relativistic 35 MeV electron beam. , 2019, , . | | 0 |
| 54 | The atomic structure of GaN-based quantum wells and interfaces. , 2008, , 41-42. | | 0 |

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|----|--|----|-----------|
| 55 | Terahertz driven bunch compression and longitudinal diagnostics of 100 keV electron beams. , 2020, , . | | 0 |