

Paul D Brown

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,528
citations

218677

26
h-index

189892

50
g-index

76
all docs

76
docs citations

76
times ranked

3816
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Silver nanoparticles and polymeric medical devices: a new approach to prevention of infection?. <i>Journal of Antimicrobial Chemotherapy</i> , 2004, 54, 1019-1024. | 3.0 | 655 |
| 2 | Encapsulation of single-molecule magnets in carbon nanotubes. <i>Nature Communications</i> , 2011, 2, 407. | 12.8 | 147 |
| 3 | Clean preparation of nanoparticulate metals in porous supports: a supercritical route Electronic supplementary information (ESI) available: synthesis of precursor complexes; preparation of aerogels. See http://www.rsc.org/suppdata/jm/b1/b111111f/ . <i>Journal of Materials Chemistry</i> , 2002, 12, 1898-1905. | 6.7 | 120 |
| 4 | Shock-Absorbing and Failure Mechanisms of WS ₂ and MoS ₂ Nanoparticles with Fullerene-like Structures under Shock Wave Pressure. <i>Journal of the American Chemical Society</i> , 2005, 127, 16263-16272. | 13.7 | 104 |
| 5 | Process Map for the Hydrothermal Synthesis of Fe ₂ O ₃ Nanorods. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18689-18698. | 3.1 | 97 |
| 6 | Assembly, Growth, and Catalytic Activity of Gold Nanoparticles in Hollow Carbon Nanofibers. <i>ACS Nano</i> , 2012, 6, 2000-2007. | 14.6 | 83 |
| 7 | Structural and electrical characterization of AuTiAlTi/AlGaIn/GaN ohmic contacts. <i>Journal of Applied Physics</i> , 2002, 92, 94-100. | 2.5 | 81 |
| 8 | WS ₂ and MoS ₂ Inorganic Fullerenes Super Shock Absorbers at Very High Pressures. <i>Advanced Materials</i> , 2005, 17, 1500-1503. | 21.0 | 78 |
| 9 | Visualized effect of oxidation on magnetic recording fidelity in pseudo-single-domain magnetite particles. <i>Nature Communications</i> , 2014, 5, 5154. | 12.8 | 71 |
| 10 | Supercritical fluids: A route to palladium-aerogel nanocomposites. <i>Journal of Materials Chemistry</i> , 2004, 14, 1212. | 6.7 | 67 |
| 11 | Electrical discharge coating of nanostructured TiC-Fe cermets on 304 stainless steel. <i>Surface and Coatings Technology</i> , 2016, 307, 639-649. | 4.8 | 62 |
| 12 | Hydrothermal growth mechanism of Fe ₂ O ₃ nanorods derived by near in situ analysis. <i>Nanoscale</i> , 2010, 2, 2390. | 5.6 | 58 |
| 13 | Direct visualization of the thermomagnetic behavior of pseudo single-domain magnetite particles. <i>Science Advances</i> , 2016, 2, e1501801. | 10.3 | 52 |
| 14 | Wear performance of TiC/Fe cermet electrical discharge coatings. <i>Wear</i> , 2018, 402-403, 109-123. | 3.1 | 46 |
| 15 | Preparation of polymer nanoparticle composite beads by a nanoparticle-stabilised suspension polymerisation. <i>Journal of Materials Chemistry</i> , 2007, 17, 4382. | 6.7 | 44 |
| 16 | A facile synthetic route to aqueous dispersions of silver nanoparticles. <i>Materials Letters</i> , 2007, 61, 4906-4910. | 2.6 | 38 |
| 17 | Structural and electrical characterization of AuPdAlTi ohmic contacts to AlGaIn/GaN with varying Ti content. <i>Journal of Applied Physics</i> , 2004, 96, 5588-5595. | 2.5 | 37 |
| 18 | Comparison of environmental scanning electron microscopy with high vacuum scanning electron microscopy as applied to the assessment of cell morphology. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 69A, 359-366. | 3.1 | 37 |

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|----|--|------|-----------|
| 19 | Novel one pot synthesis of silver nanoparticle-polymer composites by supercritical CO ₂ polymerisation in the presence of a RAFT agent. <i>Chemical Communications</i> , 2007, , 3933. | 4.1 | 36 |
| 20 | Transport and encapsulation of gold nanoparticles in carbon nanotubes. <i>Nanoscale</i> , 2010, 2, 1006. | 5.6 | 35 |
| 21 | An appraisal of ultramicrotomy, FIBSEM and cryogenic FIBSEM techniques for the sectioning of biological cells on titanium substrates for TEM investigation. <i>Journal of Microscopy</i> , 2009, 234, 16-25. | 1.8 | 34 |
| 22 | Formation mechanism of electrical discharge TiC-Fe composite coatings. <i>Journal of Materials Processing Technology</i> , 2017, 243, 143-151. | 6.3 | 34 |
| 23 | Preparation of hybrid polymer nanocomposite microparticles by a nanoparticle stabilised dispersion polymerisation. <i>Journal of Materials Chemistry</i> , 2008, 18, 998. | 6.7 | 33 |
| 24 | Single-Step Synthesis and Surface-Assisted Growth of Superconducting TaS ₂ Nanowires. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7060-7063. | 13.8 | 30 |
| 25 | Acid-dissolution of antigorite, chrysotile and lizardite for ex situ carbon capture and storage by mineralisation. <i>Chemical Geology</i> , 2016, 437, 153-169. | 3.3 | 30 |
| 26 | Interactions of Gold Nanoparticles with the Interior of Hollow Graphitized Carbon Nanofibers. <i>Small</i> , 2012, 8, 1222-1228. | 10.0 | 29 |
| 27 | An Experimental Study of the Carbonation of Serpentinite and Partially Serpentinised Peridotites. <i>Frontiers in Earth Science</i> , 2017, 5, . | 1.8 | 24 |
| 28 | Assembly and Magnetic Bistability of Mn ₃ O ₄ Nanoparticles Encapsulated in Hollow Carbon Nanofibers. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2051-2054. | 13.8 | 23 |
| 29 | Modelling of single spark interactions during electrical discharge coating. <i>Journal of Materials Processing Technology</i> , 2018, 252, 760-772. | 6.3 | 23 |
| 30 | INVESTIGATION INTO THE CHARACTERISTICS OF WHITE LAYERS PRODUCED IN A NICKEL-BASED SUPERALLOY FROM DRILLING OPERATIONS. <i>Machining Science and Technology</i> , 2012, 16, 40-52. | 2.5 | 22 |
| 31 | Growth and Optical Properties of CdS:(Cd, Zn)S Strained Layer Superlattices. <i>Japanese Journal of Applied Physics</i> , 1991, 30, L1853-L1856. | 1.5 | 20 |
| 32 | A valve-assisted snapshot approach to understand the hydrothermal synthesis of $\hat{\pm}$ -Fe ₂ O ₃ nanorods. <i>CrystEngComm</i> , 2010, 12, 1700. | 2.6 | 19 |
| 33 | Insights from in situ and environmental TEM on the oriented attachment of $\hat{\pm}$ -Fe ₂ O ₃ nanoparticles during $\hat{\pm}$ -Fe ₂ O ₃ nanorod formation. <i>CrystEngComm</i> , 2014, 16, 1540-1546. | 2.6 | 19 |
| 34 | Low dimensional nanostructures of fast ion conducting lithium nitride. <i>Nature Communications</i> , 2020, 11, 4492. | 12.8 | 19 |
| 35 | High-Quality Epitaxial MnSi(111) Layers Grown in the Presence of an Sb Flux. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 6556-6561. | 1.5 | 17 |
| 36 | Metallic Nanowires of Nb ₃ Te ₄ : A Nanostructured Chalcogenide. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3555-3558. | 13.8 | 15 |

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|----|---|------|-----------|
| 37 | TEM assessment of GaN epitaxial growth. <i>Journal of Crystal Growth</i> , 2000, 210, 143-150. | 1.5 | 14 |
| 38 | Microstructure of semiconducting MnSi _{1.7} and \hat{I}^2 -FeSi ₂ layers grown by surfactant-mediated reactive deposition epitaxy. <i>Thin Solid Films</i> , 2001, 381, 231-235. | 1.8 | 14 |
| 39 | In situ TEM investigation of \hat{I}^2 -FeOOH and \hat{I}^\pm -Fe ₂ O ₃ nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1058-1061. | 2.7 | 14 |
| 40 | Tuneable magnetic properties of hydrothermally synthesised core/shell CoFe ₂ O ₄ /NiFe ₂ O ₄ and NiFe ₂ O ₄ /CoFe ₂ O ₄ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1. | 1.9 | 13 |
| 41 | Dynamics of Gold Nanoparticles on Carbon Nanostructures Driven by van der Waals and Electrostatic Interactions. <i>Small</i> , 2015, 11, 2756-2761. | 10.0 | 12 |
| 42 | Hydrothermal synthesis of mixed cobalt-nickel ferrite nanoparticles. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012074. | 0.4 | 10 |
| 43 | Structural characterisation of Al grown on group III-nitride layers and sapphire by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2002, 234, 384-390. | 1.5 | 9 |
| 44 | Molecular beam epitaxy of p-type cubic GaMnN layers. <i>Journal of Crystal Growth</i> , 2005, 278, 685-689. | 1.5 | 9 |
| 45 | Growth and Microstructural Characterization of Single Crystalline Nb ₃ Te ₄ Nanowires. <i>Crystal Growth and Design</i> , 2005, 5, 1633-1637. | 3.0 | 9 |
| 46 | Flame spheroidisation of dense and porous Ca ₂ Fe ₂ O ₅ microspheres. <i>Materials Advances</i> , 2020, 1, 3539-3544. | 5.4 | 8 |
| 47 | Ag-catalysed cutting of multi-walled carbon nanotubes. <i>Nanotechnology</i> , 2016, 27, 175604. | 2.6 | 6 |
| 48 | Modelling and Characterisation of Electrical Discharge TiC-Fe Cermet Coatings. <i>Procedia CIRP</i> , 2018, 68, 28-33. | 1.9 | 6 |
| 49 | Formation of hollow carbon nanoshells from thiol stabilised silver nanoparticles via heat treatment. <i>Carbon</i> , 2018, 139, 538-544. | 10.3 | 6 |
| 50 | Characterization of Ga _{1-x} MnxAs/(001)GaAs epilayers grown by low-temperature molecular beam epitaxy. <i>Philosophical Magazine Letters</i> , 2006, 86, 395-401. | 1.2 | 5 |
| 51 | Growth of single-layer boron nitride dome-shaped nanostructures catalysed by iron clusters. <i>Nanoscale</i> , 2016, 8, 15079-15085. | 5.6 | 5 |
| 52 | Prospects for the incorporation of cobalt into \hat{I}^\pm -Fe ₂ O ₃ nanorods during hydrothermal synthesis. <i>Journal of Materials Science</i> , 2012, 47, 5546-5560. | 3.7 | 4 |
| 53 | Environmental TEM investigation of the reduction of \hat{I}^\pm -Fe ₂ O ₃ nanorods under H ₂ atmosphere. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012049. | 0.4 | 3 |
| 54 | Controlling Role of pH and Temperature on CoFe ₂ O ₄ Nanostructures Produced by Hydrothermal Synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8801-8805. | 0.9 | 3 |

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|----|---|-----|-----------|
| 55 | Development of Thermally Responsive PolyNIPAm Microcarrier for Application of Cell Culturing Part I: A Feasibility Study. <i>Polymers</i> , 2021, 13, 2629. | 4.5 | 3 |
| 56 | Structural characterisation of zinc-blende Ga _{1-x} MnxN epilayers grown by MBE as a function of Ga flux. <i>Journal of Crystal Growth</i> , 2005, 284, 324-334. | 1.5 | 2 |
| 57 | Microstructural characterization of low-temperature grown GaMnN on GaAs(0001) substrates by plasma-assisted MBE. <i>Semiconductor Science and Technology</i> , 2007, 22, 1131-1139. | 2.0 | 2 |
| 58 | Control of Point Defects in Semiconductors. <i>Materials Research Society Symposia Proceedings</i> , 1994, 373, 529. | 0.1 | 1 |
| 59 | TEM Investigation of Point Defect Interactions in II-VI Compounds. <i>Materials Science Forum</i> , 1995, 196-201, 1461-1466. | 0.3 | 1 |
| 60 | Electron Microscopy, Electrical Activity, Artefacts and the Assessment of Semiconductor Epitaxial Growth. <i>Materials Research Society Symposia Proceedings</i> , 1998, 523, 207. | 0.1 | 1 |
| 61 | HRTEM observation of defect structures of Ga ₂ O ₃ nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2467-2471. | 1.8 | 1 |
| 62 | Hydrothermal Synthesis and Near In Situ Analysis of NiFe ₂ O ₄ Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8797-8800. | 0.9 | 1 |
| 63 | Structural Characterization. <i>Springer Handbooks</i> , 2017, , 1-1. | 0.6 | 1 |
| 64 | <i>Materials Research Society Symposia Proceedings</i> , 1990, 216, 135. | 0.1 | 0 |
| 65 | Stebic Revisited. <i>Materials Research Society Symposia Proceedings</i> , 1994, 354, 425. | 0.1 | 0 |
| 66 | A Tem Study Of The Microstructural Evolution Of Mbe-Grown Gan. <i>Materials Research Society Symposia Proceedings</i> , 1997, 482, 187. | 0.1 | 0 |
| 67 | A transmission electron microscopy investigation of buried defect sources within epitaxial GaN. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 10195-10203. | 1.8 | 0 |
| 68 | Metallic Nanowires of Nb ₃ Te ₄ : A Nanostructured Chalcogenide.. <i>ChemInform</i> , 2005, 36, no. | 0.0 | 0 |
| 69 | Hydrothermal synthesis of homogeneous and core/shell Co_xNi_{1-x}Fe₂O₄ nanoparticles. , 2012, , . | | 0 |
| 70 | Effect of TEM grid deposition method on the dispersion of thiol-stabilised silver nanoparticles. <i>Journal of Physics: Conference Series</i> , 2017, 902, 012030. | 0.4 | 0 |
| 71 | Visualized Effects of Oxidation and Temperature on Vortex-State Fe ₃ O ₄ Particles Examined by Environmental TEM and Off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2018, 24, 950-951. | 0.4 | 0 |
| 72 | Stabilization of CdxHg _{1-x} Te heterointerfaces. , 1991, , . | | 0 |