

Paul D Brown

List of Publications by Year in descending order

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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	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
2	Flame spheroidisation of dense and porous Ca ₂ Fe ₂ O ₅ microspheres. <i>Materials Advances</i> , 2020, 1, 3539-3544.	5.4	8
3	Low dimensional nanostructures of fast ion conducting lithium nitride. <i>Nature Communications</i> , 2020, 11, 4492.	12.8	19
4	Wear performance of TiC/Fe cermet electrical discharge coatings. <i>Wear</i> , 2018, 402-403, 109-123.	3.1	46
5	Modelling of single spark interactions during electrical discharge coating. <i>Journal of Materials Processing Technology</i> , 2018, 252, 760-772.	6.3	23
6	Modelling and Characterisation of Electrical Discharge TiC-Fe Cermet Coatings. <i>Procedia CIRP</i> , 2018, 68, 28-33.	1.9	6
7	Formation of hollow carbon nanoshells from thiol stabilised silver nanoparticles via heat treatment. <i>Carbon</i> , 2018, 139, 538-544.	10.3	6
8	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
9	Formation mechanism of electrical discharge TiC-Fe composite coatings. <i>Journal of Materials Processing Technology</i> , 2017, 243, 143-151.	6.3	34
10	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
11	An Experimental Study of the Carbonation of Serpentinite and Partially Serpentinised Peridotites. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	24
12	Structural Characterization. <i>Springer Handbooks</i> , 2017, , 1-1.	0.6	1
13	Direct visualization of the thermomagnetic behavior of pseudo "single-domain magnetite particles. <i>Science Advances</i> , 2016, 2, e1501801.	10.3	52
14	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
15	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
16	Growth of single-layer boron nitride dome-shaped nanostructures catalysed by iron clusters. <i>Nanoscale</i> , 2016, 8, 15079-15085.	5.6	5
17	Ag-catalysed cutting of multi-walled carbon nanotubes. <i>Nanotechnology</i> , 2016, 27, 175604.	2.6	6
18	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

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19	Visualized effect of oxidation on magnetic recording fidelity in pseudo-single-domain magnetite particles. <i>Nature Communications</i> , 2014, 5, 5154.	12.8	71
20	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
21	Insights from in situ and environmental TEM on the oriented attachment of γ -Fe ₂ O ₃ nanoparticles during γ -Fe ₂ O ₃ nanorod formation. <i>CrystEngComm</i> , 2014, 16, 1540-1546.	2.6	19
22	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
23	Environmental TEM investigation of the reduction of γ -Fe ₂ O ₃ nanorods under H ₂ atmosphere. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012049.	0.4	3
24	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
25	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
26	Hydrothermal synthesis of homogeneous and core/shell Co _x Ni _{1-x} and Ni _{1-x} Fe _x O ₄ nanoparticles. , 2012, , .		0
27	Hydrothermal synthesis of mixed cobalt-nickel ferrite nanoparticles. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012074.	0.4	10
28	Assembly, Growth, and Catalytic Activity of Gold Nanoparticles in Hollow Carbon Nanofibers. <i>ACS Nano</i> , 2012, 6, 2000-2007.	14.6	83
29	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
30	Interactions of Gold Nanoparticles with the Interior of Hollow Graphitized Carbon Nanofibers. <i>Small</i> , 2012, 8, 1222-1228.	10.0	29
31	Prospects for the incorporation of cobalt into γ -Fe ₂ O ₃ nanorods during hydrothermal synthesis. <i>Journal of Materials Science</i> , 2012, 47, 5546-5560.	3.7	4
32	In situ TEM investigation of γ -FeOOH and γ -Fe ₂ O ₃ nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1058-1061.	2.7	14
33	Encapsulation of single-molecule magnets in carbon nanotubes. <i>Nature Communications</i> , 2011, 2, 407.	12.8	147
34	HRTEM observation of defect structures of γ -Ga ₂ O ₃ nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2467-2471.	1.8	1
35	Transport and encapsulation of gold nanoparticles in carbon nanotubes. <i>Nanoscale</i> , 2010, 2, 1006.	5.6	35
36	Hydrothermal growth mechanism of γ -Fe ₂ O ₃ nanorods derived by near in situ analysis. <i>Nanoscale</i> , 2010, 2, 2390.	5.6	58

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37	A valve-assisted snapshot approach to understand the hydrothermal synthesis of Fe_2O_3 nanorods. CrystEngComm, 2010, 12, 1700.	2.6	19
38	An appraisal of ultramicrotomy, FIBSEM and cryogenic FIBSEM techniques for the sectioning of biological cells on titanium substrates for TEM investigation. Journal of Microscopy, 2009, 234, 16-25.	1.8	34
39	Process Map for the Hydrothermal Synthesis of Fe_2O_3 Nanorods. Journal of Physical Chemistry C, 2009, 113, 18689-18698.	3.1	97
40	Preparation of hybrid polymer nanocomposite microparticles by a nanoparticle stabilised dispersion polymerisation. Journal of Materials Chemistry, 2008, 18, 998.	6.7	33
41	Microstructural characterization of low-temperature grown GaMnN on GaAs(001) substrates by plasma-assisted MBE. Semiconductor Science and Technology, 2007, 22, 1131-1139.	2.0	2
42	Preparation of polymer-nanoparticle composite beads by a nanoparticle-stabilised suspension polymerisation. Journal of Materials Chemistry, 2007, 17, 4382.	6.7	44
43	Novel one pot synthesis of silver nanoparticle-polymer composites by supercritical CO_2 polymerisation in the presence of a RAFT agent. Chemical Communications, 2007, , 3933.	4.1	36
44	A facile synthetic route to aqueous dispersions of silver nanoparticles. Materials Letters, 2007, 61, 4906-4910.	2.6	38
45	Single-Step Synthesis and Surface-Assisted Growth of Superconducting TaS ₂ Nanowires. Angewandte Chemie - International Edition, 2006, 45, 7060-7063.	13.8	30
46	Characterization of Ga _{1-x} MnxAs/(001)GaAs epilayers grown by low-temperature molecular beam epitaxy. Philosophical Magazine Letters, 2006, 86, 395-401.	1.2	5
47	Molecular beam epitaxy of p-type cubic GaMnN layers. Journal of Crystal Growth, 2005, 278, 685-689.	1.5	9
48	Structural characterisation of zinc-blende Ga _{1-x} MnxN epilayers grown by MBE as a function of Ga flux. Journal of Crystal Growth, 2005, 284, 324-334.	1.5	2
49	Shock-Absorbing and Failure Mechanisms of WS ₂ and MoS ₂ Nanoparticles with Fullerene-like Structures under Shock Wave Pressure. Journal of the American Chemical Society, 2005, 127, 16263-16272.	13.7	104
50	Metallic Nanowires of Nb ₃ Te ₄ : A Nanostructured Chalcogenide. Angewandte Chemie - International Edition, 2005, 44, 3555-3558.	13.8	15
51	WS ₂ and MoS ₂ Inorganic Fullerenes: Super Shock Absorbers at Very High Pressures. Advanced Materials, 2005, 17, 1500-1503.	21.0	78
52	Metallic Nanowires of Nb ₃ Te ₄ : A Nanostructured Chalcogenide.. ChemInform, 2005, 36, no.	0.0	0
53	Growth and Microstructural Characterization of Single Crystalline Nb ₃ Te ₄ Nanowires. Crystal Growth and Design, 2005, 5, 1633-1637.	3.0	9
54	Structural and electrical characterization of AuPdAlTi ohmic contacts to AlGaIn/GaN with varying Ti content. Journal of Applied Physics, 2004, 96, 5588-5595.	2.5	37

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55	Comparison of environmental scanning electron microscopy with high vacuum scanning electron microscopy as applied to the assessment of cell morphology. Journal of Biomedical Materials Research Part B, 2004, 69A, 359-366.	3.1	37
56	Silver nanoparticles and polymeric medical devices: a new approach to prevention of infection?. Journal of Antimicrobial Chemotherapy, 2004, 54, 1019-1024.	3.0	655
57	Supercritical fluids: A route to palladium-aerogel nanocomposites. Journal of Materials Chemistry, 2004, 14, 1212.	6.7	67
58	Structural and electrical characterization of AuTiAlTi/AlGaN/GaN ohmic contacts. Journal of Applied Physics, 2002, 92, 94-100.	2.5	81
59	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/ . Journal of Materials Chemistry, 2002, 12, 1898-1905.	6.7	120
60	Structural characterisation of Al grown on group III-nitride layers and sapphire by molecular beam epitaxy. Journal of Crystal Growth, 2002, 234, 384-390.	1.5	9
61	Microstructure of semiconducting MnSi _{1.7} and \hat{I}^2 -FeSi ₂ layers grown by surfactant-mediated reactive deposition epitaxy. Thin Solid Films, 2001, 381, 231-235.	1.8	14
62	TEM assessment of GaN epitaxial growth. Journal of Crystal Growth, 2000, 210, 143-150.	1.5	14
63	A transmission electron microscopy investigation of buried defect sources within epitaxial GaN. Journal of Physics Condensed Matter, 2000, 12, 10195-10203.	1.8	0
64	High-Quality Epitaxial MnSi(111) Layers Grown in the Presence of an Sb Flux. Japanese Journal of Applied Physics, 1998, 37, 6556-6561.	1.5	17
65	Electron Microscopy, Electrical Activity, Artefacts and the Assessment of Semiconductor Epitaxial Growth. Materials Research Society Symposia Proceedings, 1998, 523, 207.	0.1	1
66	A Tem Study Of The Microstructural Evolution Of Mbe-Grown Gan. Materials Research Society Symposia Proceedings, 1997, 482, 187.	0.1	0
67	TEM Investigation of Point Defect Interactions in II-VI Compounds. Materials Science Forum, 1995, 196-201, 1461-1466.	0.3	1
68	Stebic Revisited. Materials Research Society Symposia Proceedings, 1994, 354, 425.	0.1	0
69	Control of Point Defects in Semiconductors. Materials Research Society Symposia Proceedings, 1994, 373, 529.	0.1	1
70	Growth and Optical Properties of CdS:(Cd, Zn)S Strained Layer Superlattices. Japanese Journal of Applied Physics, 1991, 30, L1853-L1856.	1.5	20
71	Stabilization of Cd _x Hg _{1-x} Te heterointerfaces. , 1991, , .		0
72	Materials Research Society Symposia Proceedings, 1990, 216, 135.	0.1	0