Richard Drummond-Brydson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

183 6,589 46 72 g-index

183 7,098 5.6 ext. papers ext. citations avg, IF 5.54

L-index

| # | Paper | IF | Citations |
|-----|--|-------|-----------|
| 183 | Dynamic microscopy relating structure and function. <i>Philosophical Transactions Series A</i> , <i>Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190596 | 3 | O |
| 182 | Chemical Evolution of CoCrMo Wear Particles: An in Situ Characterization Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9894-9901 | 3.8 | 2 |
| 181 | Sub-Nanometer Thick Gold Nanosheets as Highly Efficient Catalysts. <i>Advanced Science</i> , 2019 , 6, 190091 | 113.6 | 36 |
| 180 | Surface Fatigue Behavior of a WC/aC:H Thin-Film and the Tribochemical Impact of Zinc Dialkyldithiophosphate. <i>ACS Applied Materials & Dialkyldithiophosphate</i> . <i>ACS Applied Materials & Dialkyldithiophosphate</i> . | 9.5 | 7 |
| 179 | Fe-N-Doped Mesoporous Carbon with Dual Active Sites Loaded on Reduced Graphene Oxides for Efficient Oxygen Reduction Catalysts. <i>ACS Applied Materials & District Action States</i> , 10, 2423-2429 | 9.5 | 77 |
| 178 | Hydrothermal Synthesis of Silver Nanoparticles for High Throughput Biosensing Applications. <i>MRS Advances</i> , 2018 , 3, 861-866 | 0.7 | |
| 177 | Hydrothermal Synthesis and Phase Formation Mechanism of TiO2(B) Nanorods via Alkali Metal Titanate Phase Transformation. <i>Solid State Phenomena</i> , 2018 , 283, 23-36 | 0.4 | 4 |
| 176 | Toward Developing a Predictive Approach To Assess Electron Beam Instability during Transmission Electron Microscopy of Drug Molecules. <i>Molecular Pharmaceutics</i> , 2018 , 15, 5114-5123 | 5.6 | 7 |
| 175 | Systematic Analysis of the Coupling Effects within Supported Plasmonic Nanorod Antenna Arrays. Journal of Physical Chemistry C, 2018 , 122, 22041-22053 | 3.8 | 3 |
| 174 | Thermal annealing of nuclear graphite during in-situ electron irradiation. <i>Carbon</i> , 2017 , 115, 659-664 | 10.4 | 9 |
| 173 | Micro to nanostructural observations in neutron irradiated nuclear graphites PCEA and PCIB. Journal of Nuclear Materials, 2017 , 491, 221-231 | 3.3 | 12 |
| 172 | A time-dependent atomistic reconstruction of severe irradiation damage and associated property changes in nuclear graphite. <i>Carbon</i> , 2017 , 120, 111-120 | 10.4 | 13 |
| 171 | Toxicity and oxidative stress responses induced by nano- and micro-CoCrMo particles. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5648-5657 | 7.3 | 4 |
| 170 | Robust theoretical modelling of core ionisation edges for quantitative electron energy loss spectroscopy of B- and N-doped graphene. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 225303 | 1.8 | 5 |
| 169 | Understanding the wear behaviour of non-doped and Si,O-doped diamond-like carbon films. <i>RSC Advances</i> , 2017 , 7, 43600-43610 | 3.7 | 5 |
| 168 | Synthesis and organogelating behaviour of amino acid-functionalised triphenylenes. <i>Soft Matter</i> , 2017 , 13, 5922-5932 | 3.6 | 3 |
| 167 | A high-resolution study of graphite nodule formation in experimental medium-carbon machining steel. <i>Materials Characterization</i> , 2017 , 131, 508-516 | 3.9 | 4 |

(2015-2017)

| 166 | Dissecting Multivalent Lectin-Carbohydrate Recognition Using Polyvalent Multifunctional Glycan-Quantum Dots. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11833-11844 | 16.4 | 41 | |
|-----|--|-----------------------|----|--|
| 165 | Correlations among the mineralogical and physical properties of halloysite nanotubes (HNTs). <i>Clay Minerals</i> , 2016 , 51, 325-350 | 1.3 | 40 | |
| 164 | Quantifying the cellular uptake of semiconductor quantum dot nanoparticles by analytical electron microscopy. <i>Journal of Microscopy</i> , 2016 , 261, 167-76 | 1.9 | 11 | |
| 163 | On the nature of cracks and voids in nuclear graphite. <i>Carbon</i> , 2016 , 103, 45-55 | 10.4 | 31 | |
| 162 | Universal synthesis method for mixed phase TiO2(B)/anatase TiO2 thin films on substrates via a modified low pressure chemical vapour deposition (LPCVD) route. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5685-5699 | 13 | 35 | |
| 161 | Pore confinement effects and stabilization of carbon nitride oligomers in macroporous silica for photocatalytic hydrogen production. <i>Carbon</i> , 2016 , 106, 320-329 | 10.4 | 19 | |
| 160 | Significance of particle size and charge capacity in TiO2 nanoparticle-lipid interactions. <i>Journal of Colloid and Interface Science</i> , 2016 , 473, 75-83 | 9.3 | 19 | |
| 159 | Synthesis, characterization and electrochemical performances of EFe2O3 cathode material for Li-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 7953-7961 | 2.1 | 9 | |
| 158 | Visualizing surface plasmons with photons, photoelectrons, and electrons. <i>Analyst, The</i> , 2016 , 141, 356 | 2 <i>-</i> 7 2 | 16 | |
| 157 | Evidence for the dissolution of molybdenum during tribocorrosion of CoCrMo hip implants in the presence of serum protein. <i>Acta Biomaterialia</i> , 2016 , 45, 410-418 | 10.8 | 26 | |
| 156 | Effect of mill type on the size reduction and phase transformation of gamma alumina. <i>Chemical Engineering Science</i> , 2015 , 134, 774-783 | 4.4 | 73 | |
| 155 | Statistical prediction of nanoparticle delivery: from culture media to cell. <i>Nanotechnology</i> , 2015 , 26, 15 | 5 3,041 | 8 | |
| 154 | Electronic Structure Modification of Ion Implanted Graphene: The Spectroscopic Signatures of pand n-Type Doping. <i>ACS Nano</i> , 2015 , 9, 11398-407 | 16.7 | 64 | |
| 153 | Enhancement of hydrogen production using photoactive nanoparticles on a photochemically inert photonic macroporous support. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 493-9 | 3.6 | 18 | |
| 152 | Electron irradiation of nuclear graphite studied by transmission electron microscopy and electron energy loss spectroscopy. <i>Carbon</i> , 2015 , 83, 106-117 | 10.4 | 45 | |
| 151 | Microscopy of nanoparticulate dispersions. <i>Journal of Microscopy</i> , 2015 , 260, 238-47 | 1.9 | 23 | |
| 150 | Nanomaterials: Dispersion, Dissolution and Dose. Frontiers of Nanoscience, 2015, 8, 183-216 | 0.7 | 1 | |
| 149 | Effect of starting microstructure upon the nucleation sites and distribution of graphite particles during a graphitising anneal of an experimental medium-carbon machining steel. <i>Materials Characterization</i> , 2015 , 106, 86-92 | 3.9 | 22 | |

| 148 | Homogeneous coating of photonic macroporous oxides with inorganic nanocrystals. <i>Nanoscale</i> , 2014 , 6, 4043-6 | 7.7 | 6 |
|-----|---|----------------|-----|
| 147 | Analytical Transmission Electron Microscopy. <i>Reviews in Mineralogy and Geochemistry</i> , 2014 , 78, 219-26 | 97.1 | 11 |
| 146 | Bilayer graphene formed by passage of current through graphite: evidence for a three-dimensional structure. <i>Nanotechnology</i> , 2014 , 25, 465601 | 3.4 | 10 |
| 145 | Synthesis and characterization of mixed phase anatase TiO2 and sodium-doped TiO2(B) thin films by low pressure chemical vapour deposition (LPCVD). <i>RSC Advances</i> , 2014 , 4, 48507-48515 | 3.7 | 35 |
| 144 | Asymmetric Enelting Land Ereezing Ekinetics of the magnetostructural phase transition in B2-ordered FeRh epilayers. <i>Applied Physics Letters</i> , 2014 , 104, 232407 | 3.4 | 21 |
| 143 | Systematic investigation of the physicochemical factors that contribute to the toxicity of ZnO nanoparticles. <i>Chemical Research in Toxicology</i> , 2014 , 27, 558-67 | 4 | 62 |
| 142 | A substoichiometric tungsten oxide catalyst provides a sustainable and efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 145, 27-33 | 6.7 | 33 |
| 141 | Materials analysis: Good vibrations. <i>Nature</i> , 2014 , 514, 177-8 | 50.4 | 5 |
| 140 | Nanoparticle vesicle encoding for imaging and tracking cell populations. <i>Nature Methods</i> , 2014 , 11, 117 | 7 <u>28</u> 16 | 26 |
| 139 | Quantifying Nanoparticle Cell Interactions. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1300-1301 | 0.5 | 2 |
| 138 | Investigating the structure of biomass-derived non-graphitizing mesoporous carbons by electron energy loss spectroscopy in the transmission electron microscope and X-ray photoelectron spectroscopy. <i>Carbon</i> , 2014 , 67, 514-524 | 10.4 | 27 |
| 137 | Observation of thermally etched grain boundaries with the FIB/TEM technique. <i>Materials Characterization</i> , 2013 , 84, 28-33 | 3.9 | 9 |
| 136 | Microstructural evolution of copperlitanium alloy during in-situ formation of TiB2 particles. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 2994-3001 | 3.3 | 8 |
| 135 | Energy of Step Defects on the TiO2 Rutile (110) Surface: An ab initio DFT Methodology. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23766-23780 | 3.8 | 13 |
| 134 | Near-infrared fluorescent ribonuclease-A-encapsulated gold nanoclusters: preparation, characterization, cancer targeting and imaging. <i>Nanoscale</i> , 2013 , 5, 1009-17 | 7.7 | 117 |
| 133 | Effects of in situ formation of TiB2 particles on age hardening behavior of Cull wt% Till wt% TiB2. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 577, 16-22 | 5.3 | 31 |
| 132 | ZnO nanoparticle interactions with phospholipid monolayers. <i>Journal of Colloid and Interface Science</i> , 2013 , 404, 161-8 | 9.3 | 11 |
| 131 | A Study of Commercial Nanoparticulate FAl2O3 Catalyst Supports. <i>ChemCatChem</i> , 2013 , 5, 2695-2706 | | |

(2011-2013)

| 130 | Quantification of nanoparticle dose and vesicular inheritance in proliferating cells. <i>ACS Nano</i> , 2013 , 7, 6129-37 | 16.7 | 52 | |
|-----|--|------|----|--|
| 129 | Atomic-scale surface roughness of rutile and implications for organic molecule adsorption. <i>Langmuir</i> , 2013 , 29, 6876-83 | 4 | 14 | |
| 128 | Evidence for boron diffusion into sub-stoichiometric MgO (001) barriers in CoFeB/MgO-based magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2013 , 113, 163502 | 2.5 | 15 | |
| 127 | Highly luminescent and nontoxic amine-capped nanoparticles from porous silicon: synthesis and their use in biomedical imaging. <i>ACS Applied Materials & Amp; Interfaces</i> , 2012 , 4, 3285-92 | 9.5 | 96 | |
| 126 | Microstructure analyses and thermoelectric properties of Ag1\(\text{MPb18Sb1+yTe20}. \) Journal of Solid State Chemistry, 2012 , 193, 58-63 | 3.3 | 15 | |
| 125 | Investigating the spatial distribution of plasmon modes in carbon cones. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1540-1541 | 0.5 | 1 | |
| 124 | Electrochemical modeling of the silica nanoparticle-biomembrane interaction. <i>Langmuir</i> , 2012 , 28, 1246 | -545 | 34 | |
| 123 | Enhanced photocatalytic hydrogen generation using polymorphic macroporous TaON. <i>Advanced Materials</i> , 2012 , 24, 3406-9 | 24 | 64 | |
| 122 | Effect of nanosized carbon black on the morphology, transport, and mechanical properties of rubbery epoxy and silicone composites. <i>Journal of Applied Polymer Science</i> , 2012 , 126, 641-652 | 2.9 | 31 | |
| 121 | Origin of significant visible-light absorption properties of Mn-doped TiO2 thin films. <i>Acta Materialia</i> , 2012 , 60, 1974-1985 | 8.4 | 49 | |
| 120 | Bench scale production of pure nanocrystalline molybdenum nitride through solid-gas phase reduction. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 9230-3 | 1.3 | 1 | |
| 119 | Low-Temperature Preparation of Single Crystal Titanium Carbide Nanofibers in Molten Salts. <i>Crystal Growth and Design</i> , 2011 , 11, 3122-3129 | 3.5 | 28 | |
| 118 | STEM mode in the SEM: a practical tool for nanotoxicology. <i>Nanotoxicology</i> , 2011 , 5, 215-27 | 5.3 | 22 | |
| 117 | Fantastic improvement in quality and quantity of carbon nanotubes synthesized on Al2O3-SiO2 supports by N2 pretreatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 8835-43 | 1.3 | 2 | |
| 116 | Chromatic Aberration Correction: The Next Step in Electron Microscopy. <i>Advances in Imaging and Electron Physics</i> , 2011 , 165, 73-130 | 0.2 | 9 | |
| 115 | Investigating the structure of non-graphitising carbons using electron energy loss spectroscopy in the transmission electron microscope. <i>Carbon</i> , 2011 , 49, 5049-5063 | 10.4 | 74 | |
| 114 | Electron Microscopy of Cocatalyst Nanostructures on Semiconductor Photocatalysts. <i>ChemCatChem</i> , 2011 , 3, 990-998 | 5.2 | 6 | |
| 113 | Dual lanthanide role in the designed synthesis of hollow metal coordination (Prussian Blue analogue) nanocages with large internal cavity and mesoporous cage. <i>Nanoscale</i> , 2011 , 3, 3685-94 | 7.7 | 26 | |

| 112 | Investigation of Fe/MgO catalyst support precursors for the chemical vapour deposition growth of carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 5345-51 | 1.3 | 10 |
|-----|--|------|-----|
| 111 | Synthesis of suitable SiO2 nano particles as the core in core-shell nanostructured materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 5311-7 | 1.3 | 2 |
| 110 | Characterization of dentine structure in three dimensions using FIB-SEM. <i>Journal of Microscopy</i> , 2010 , 240, 1-5 | 1.9 | 35 |
| 109 | v: The Role of Ion Migration and Alloy Formation on the Stability of Core Shell Cocatalysts for Photoinduced Water Splitting. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22758-22762 | 3.8 | 9 |
| 108 | Magnetostructural influences of thin Mg insert layers in crystalline CoFe(B)/MgO/CoFe(B) magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2010 , 97, 252502 | 3.4 | 8 |
| 107 | Organosilica Nanoshells with Thin Silica Cross-Linking by Miniemulsion Periphery Polymerization (MEPP). <i>Macromolecules</i> , 2010 , 43, 6343-6347 | 5.5 | 11 |
| 106 | The effect of deliberate aluminium additions on the microstructure of rolled steel plate characterized using EBSD. <i>Materials Characterization</i> , 2010 , 61, 159-167 | 3.9 | 13 |
| 105 | Application of Nomarski differential interference contrast microscopy to highlight the prior austenite grain boundaries revealed by thermal etching. <i>Materials Characterization</i> , 2010 , 61, 584-588 | 3.9 | 20 |
| 104 | Microstructural and microtextural analysis of InterPulse GTCAW welds in Cp-Ti and TiBALEV. <i>Materials Science & Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 7694-7705 | 5.3 | 46 |
| 103 | Analysis of computational EELS modelling results for MgO-based systems. <i>Ultramicroscopy</i> , 2010 , 110, 1059-1069 | 3.1 | 5 |
| 102 | Electron-beam-induced reduction of Fe3+ in iron phosphate dihydrate, ferrihydrite, haemosiderin and ferritin as revealed by electron energy-loss spectroscopy. <i>Ultramicroscopy</i> , 2010 , 110, 1020-1032 | 3.1 | 44 |
| 101 | Smart acquisition EELS. <i>Ultramicroscopy</i> , 2010 , 110, 998-1003 | 3.1 | 27 |
| 100 | Quantitative analysis of image contrast in phase contrast STEM for low dose imaging. <i>Ultramicroscopy</i> , 2010 , 110, 1324-1331 | 3.1 | 15 |
| 99 | Composition and microstructure of 20-year-old ordinary Portland cementground granulated blast-furnace slag blends containing 0 to 100% slag. <i>Cement and Concrete Research</i> , 2010 , 40, 971-983 | 10.3 | 200 |
| 98 | Composition, morphology and nanostructure of CBH in 70% white Portland cementB0% fly ash blends hydrated at 55 °C Cement and Concrete Research, 2010, 40, 1350-1359 | 10.3 | 79 |
| 97 | A systematic approach to choosing parameters for modelling fine structure in electron energy-loss spectroscopy. <i>Ultramicroscopy</i> , 2009 , 109, 1374-88 | 3.1 | 23 |
| 96 | A convenient, general synthesis of carbide nanofibres via templated reactions on carbon nanotubes in molten salt media. <i>Carbon</i> , 2009 , 47, 201-208 | 10.4 | 78 |
| 95 | Understanding the effect of aluminium on microstructure in low level nitrogen steels. <i>Materials Science and Technology</i> , 2009 , 25, 1243-1248 | 1.5 | 6 |

(2006-2009)

| 94 | Plant-driven fungal weathering: Early stages of mineral alteration at the nanometer scale. <i>Geology</i> , 2009 , 37, 615-618 | 5 | 146 |
|----|--|---------------------------|-----|
| 93 | A study on the effects of three types of deflocculants and the increase in the pH on the rheological behavior of nano carbon suspensions. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4507-13 | 1.3 | 3 |
| 92 | Study on the magnetorheological properties of maghemite-kerosene ferrofluid. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4273-8 | 1.3 | 22 |
| 91 | Electronic property investigations of single-walled carbon nanotube bundles in situ within a transmission electron microscope: an evaluation. <i>Journal of Microscopy</i> , 2008 , 231, 144-55 | 1.9 | 10 |
| 90 | Quantification of absolute iron content in mineral cores of cytosolic ferritin molecules in human liver. <i>Materials Science and Technology</i> , 2008 , 24, 689-694 | 1.5 | 10 |
| 89 | Tuning nitrogen functionalities in catalytically grown nitrogen-containing carbon nanotubes. <i>Carbon</i> , 2008 , 46, 138-148 | 10.4 | 185 |
| 88 | Preparation of a titanium carbide coating on carbon fibre using a molten salt method. <i>Carbon</i> , 2008 , 46, 305-309 | 10.4 | 76 |
| 87 | Hydrogarnet: a host phase for Cr(VI) in chromite ore processing residue (COPR) and other high pH wastes. <i>Environmental Science & Environmental Scienc</i> | 10.3 | 58 |
| 86 | Economical synthesis of nanocrystalline alumina using an environmentally low-cost binder. <i>Surface Science</i> , 2007 , 601, 2864-2867 | 1.8 | 16 |
| 85 | Quantitative analysis of the microstructure of interfaces in steel reinforced concrete. <i>Cement and Concrete Research</i> , 2007 , 37, 1613-1623 | 10.3 | 99 |
| 84 | Composition, morphology and nanostructure of CBH in white Portland cement pastes hydrated at 55IIC. Cement and Concrete Research, 2007, 37, 1571-1582 | 10.3 | 42 |
| 83 | An electron microscopic study of spheroidal graphite nodules formed in a medium-carbon steel by annealing. <i>Acta Materialia</i> , 2007 , 55, 2919-2927 | 8.4 | 49 |
| 82 | Potassium catalysis in the pyrolysis behaviour of short rotation willow coppice. Fuel, 2007, 86, 2389-240 |) 2 _{7.1} | 254 |
| 81 | The development and stability of porosity formed during the pyrolysis of polyborodiphenylsiloxane. <i>Microporous and Mesoporous Materials</i> , 2007 , 99, 261-267 | 5.3 | 9 |
| 80 | Peptide aerogels comprising self-assembling nanofibrils. <i>Micro and Nano Letters</i> , 2007 , 2, 24 | 0.9 | 24 |
| 79 | Synthesis of inorganic fullerene (MS2, M = Zr, Hf and W) phases using H2S and N2/H2microwave-induced plasmas. <i>Nanotechnology</i> , 2006 , 17, 1245-1250 | 3.4 | 17 |
| 78 | The removal of encapsulated catalyst particles from carbon nanotubes using molten salts. <i>Carbon</i> , 2006 , 44, 1699-1705 | 10.4 | 25 |
| 77 | MicrostructureEtress relationships in liquid-phase sintered alumina modified by the addition of 5wt.% of calciaEilica additives. <i>Acta Materialia</i> , 2006 , 54, 4853-4863 | 8.4 | 16 |

| 76 | Characterization of sub-stoichiometric tungsten trioxide (WO3X) using impedance spectroscopy. <i>Sensors and Actuators A: Physical</i> , 2005 , 118, 322-331 | 3.9 | 20 |
|----|--|------|-----|
| 75 | Determination of the local chemistry of iron in inorganic and organic materials. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 143, 173-187 | 1.7 | 58 |
| 74 | Microstructural and crystallographical study of carbides in 30wt.%Cr cast irons. <i>Acta Materialia</i> , 2005 , 53, 4143-4154 | 8.4 | 122 |
| 73 | Particle Formation During Spray Pyrolysis of Lead Zirconate Titanate. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 839-844 | 3.8 | 9 |
| 72 | Microwave-Induced-Plasma-Assisted Synthesis of Ternary Titanate and Niobate Phases. <i>Advanced Materials</i> , 2005 , 17, 2474-2477 | 24 | 19 |
| 71 | Creep Viscosity of Vitreous China. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 923-928 | 3.8 | 24 |
| 70 | Electron energy-loss spectroscopy (EELS) studies of an yttria stabilized TZP ceramic. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 2023-2029 | 6 | 14 |
| 69 | Designed Self-Assembled Esheet Peptide Fibrils as Templates for Silica Nanotubes. <i>Advanced Functional Materials</i> , 2004 , 14, 31-37 | 15.6 | 110 |
| 68 | The effects of a nickel oxide precoat on the gas bubble structures and fish-scaling resistance in vitreous enamels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2004, 366, 254-261 | 5.3 | 29 |
| 67 | A comparison of the microstructure and mechanical properties of two liquid phase sintered aluminas containing different molar ratios of calcialilica sintering additives. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 3453-3463 | 6 | 22 |
| 66 | In situ fabrication of Al3Ti particle reinforced aluminium alloy metalfhatrix composites. <i>Materials Science & A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 364, 339-345 | 5.3 | 141 |
| 65 | Nearly monodispersed carbon coated iron nanoparticles for the catalytic growth of nanotubes/nanofibres. <i>Diamond and Related Materials</i> , 2004 , 13, 362-370 | 3.5 | 63 |
| 64 | Carbon nanopowders from the continuous-wave CO2 laser-induced pyrolysis of ethylene. <i>Carbon</i> , 2003 , 41, 2913-2921 | 10.4 | 44 |
| 63 | An analysis of the microstructure and interfacial chemistry of steel@namel interface. <i>Thin Solid Films</i> , 2003 , 443, 33-45 | 2.2 | 51 |
| 62 | Experimental and theoretical evidence for the magic angle in transmission electron energy loss spectroscopy. <i>Ultramicroscopy</i> , 2003 , 96, 523-34 | 3.1 | 57 |
| 61 | Quantitative valence plasmon mapping in the TEM: viewing physical properties at the nanoscale. <i>Ultramicroscopy</i> , 2003 , 96, 547-58 | 3.1 | 63 |
| 60 | Deactivation and regeneration of Pt/Eblumina and Pt/ceriallumina catalysts for methane combustion in the presence of H2S. <i>Catalysis Today</i> , 2003 , 81, 659-671 | 5.3 | 30 |
| 59 | Formation of Lead Zirconate Titanate Powders by Spray Pyrolysis. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1474-1480 | 3.8 | 27 |

| 58 | Properties of Lead Zirconate Titanate Thin Films Prepared Using a Triol Sol © el Route. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1560-1566 | 8 | 13 |
|----|---|-----|-----|
| 57 | Sulphur poisoning and regeneration of precious metal catalysed methane combustion. <i>Catalysis Today</i> , 2003 , 81, 589-601 | 3 | 86 |
| 56 | Development of new carbon honeycomb structures from cellulose and pitch. <i>Carbon</i> , 2002 , 40, 541-550 10 | 0.4 | 20 |
| 55 | Structural analysis of carbon nanofibres grown by the floating catalyst method. <i>Carbon</i> , 2002 , 40, 1089-1119 | Ωφ | 18 |
| 54 | CarbonBoronBitrogen alloys from borazarene-derived mesophase pitches. <i>Carbon</i> , 2002 , 40, 2157-2167 10 | 0.4 | 4 |
| 53 | Microstructural evolution during pyrolysis of triol-based sol-gel single-layer Pb(Zr0.53Ti0.47)O3 thin films. <i>Journal of Materials Research</i> , 2002 , 17, 2066-2074 | 5 | 5 |
| 52 | High temperature ceramics for use in membrane reactors: the development of microporosity during the pyrolysis of polycarbosilanes. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3754-3760 | | 24 |
| 51 | Electron energy loss near edge structure on the nitrogen K-edge in vanadium nitrides. <i>Journal of Microscopy</i> , 2001 , 204, 166-71 | 9 | 32 |
| 50 | Electron energy-loss near-edge structure a tool for the investigation of electronic structure on the nanometre scale. <i>Journal of Microscopy</i> , 2001 , 203, 135-75 | 9 | 155 |
| 49 | Influence of CaOBiO2 ratio on the chemistry of intergranular films in liquid-phase sintered alumina and implications for rate of erosive wear. <i>Journal of Materials Research</i> , 2001 , 16, 652-665 | 5 | 19 |
| 48 | Can fresnoite (Ba2TiSi2O8) incorporate Ti3+ when crystallizing from highly reduced melts?. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001 , 81, 825-839 | | 19 |
| 47 | A brief review of quantitative aspects of electron energy loss spectroscopy and imaging. <i>Materials Science and Technology</i> , 2000 , 16, 1187-1198 | 5 | 16 |
| 46 | Evidence for the solubility of boron in graphite by electron energy loss spectroscopy. <i>Carbon</i> , 2000 , 38, 547-554 | 0.4 | 49 |
| 45 | TEM characterisation of PZT films prepared by a diol route on platinised silicon substrates. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 1277-1288 | | 46 |
| 44 | Bonding in alpha-quartz (SiO2): A view of the unoccupied states. <i>American Mineralogist</i> , 2000 , 85, 732-73&9 | 9 | 49 |
| 43 | Theoretical site- and symmetry-resolved density of states and experimental EELS near-edge spectra of AlB2 and TiB2. <i>Physical Review B</i> , 2000 , 61, 1786-1794 | 3 | 74 |
| 42 | The perovskite system La(Mg2/3Nb1/3)O3. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 2315-23246 | | 18 |
| 41 | Development of physical vapour deposited Mg@r alloys Part 1 [Characterisation of as deposited alloys. <i>Materials Science and Technology</i> , 1999 , 15, 1349-1357 | 5 | 11 |

| 40 | Development of physical vapour deposited MgIr alloys Part 2 ICharacterisation of corrosion products. <i>Materials Science and Technology</i> , 1999 , 15, 1359-1372 | 1.5 | 11 |
|----|---|------|----|
| 39 | Development of physical vapour deposited MgIr alloys Part 3 ©omparison of alloying and corrosion behaviour in MgII and MgIIr physical vapour deposited alloys. <i>Materials Science and Technology</i> , 1999 , 15, 1373-1378 | 1.5 | 4 |
| 38 | Synthesis, formation and Characterisation of MgNb2O6 Powder in a Columbite-like Phase. <i>Journal of the European Ceramic Society</i> , 1999 , 19, 355-362 | 6 | 49 |
| 37 | Effect of niobium and titanium on tin precipitation in Fe alloys. <i>Materials Science and Technology</i> , 1999 , 15, 1001-1008 | 1.5 | 1 |
| 36 | Investigating the distribution and bonding of light elements alloyed in carbonaceous materials using EELS in the TEM/STEM. <i>Carbon</i> , 1998 , 36, 1139-1147 | 10.4 | 12 |
| 35 | Characterizing the local nitrogen environment at platelets in type IaA/B diamond. <i>Journal of Microscopy</i> , 1998 , 189, 137-144 | 1.9 | 13 |
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