

# Publications

Notification of the following papers incorporating results from AINSE supported projects was received by AINSE in 2009. This list may not contain all 2009 publications arising from AINSE supported work, nor does it necessarily relate to Awards held in 2009.

The publications are listed in university order, with the name of the chief investigator(s) in bold. Where the chief investigator is not an author the name is in brackets. Publications arising from AINSE Postgraduate Research Awards (PGRA) and Research Fellowships (FEL) are also listed.

The references are as supplied by the chief investigator in Progress Reports and other notifications provided to AINSE. The Progress Reports for AINSE Awards are published on our home page.

The format of the journal references is as follows: abbreviated name of journal, volume, page number, year of publication, ISSN.

The format of Conference papers is generally: conference name, page, poster or abstract number, city, month, year, ISSN.

The graph below shows the total number of publications by year of publication

| Project Number | Chief Investigator<br>Coauthors | Title of Publication | Reference |
|----------------|---------------------------------|----------------------|-----------|
|----------------|---------------------------------|----------------------|-----------|

## University of Adelaide

|        |  |   |  |
|--------|--|---|--|
| PGRA   | von Falkenhayn L   | An assesment of the use of bacillariophyceae as biological monitors of heavy metal pollution in Australian tropical streams   | PhD Thesis 2007  |
| PGRA   | Pearce S   | Breakdown of residual stress in highly restrained thick section steel welds   | PhD Thesis 2009  |
| PGRA   | Pearce S V; Linton V M; Oliver E C                                       | Residual stress in a thick section high strength T-butt weld  | Mat Sci Eng A-Struct <b>480</b> 411-418 2008   |
| 07/124 | Prescott J R; Creighton D F; Williams F W; Spooner N A                   | Three-dimensional luminescence spectra of single grains of feldspar   | 16th AINSE Conference on Nuclear and Complementary Techniques of Analysis 74 November 2009 Lucas Heights |
| 000360 | Xia F; Qian G; Etschmann B; Studer A; Olsen S; Pring A                   | Novel thermosyphon driven hydrothermal flow-through cell for <i>in situ</i> and time-resolved neutron diffraction studies   | 8th AINSE/ANBUG Neutron Scattering Symposium 70 December 2009 Lucas Heights                              |
| 000620 | Pring A Etschmann B; Tenailleau C; Avdeev M                              | A neutron powder diffraction study of the Fe and Ni distribution in synthetic pentlandite using <sup>60</sup> Ni  | 8th AINSE/ANBUG Neutron Scattering Symposium 17 December 2009 Lucas Heights                              |
| 07/160 | Williams M A J   | Late Pleistocene and Holocene environments in the Nile basin  | Global Planet Change <b>69</b> 1-15 2009   |
| 08/125 | Williams M; Cook E; van der Kaars S; Barrows T; Shulmeister J; Kershaw P | Glacial and deglacial climatic patterns in Australia and surrounding regions from 35 000 to 10 000 years ago reconstructed from terrestrial and near-shore proxy data | Quaternary Sci Rev <b>28</b> 2398-2419 2009 doi:10.1016/j.quascirev.2009.04.020                          |
| PGRA   | Xia F  | Mechanisms and kinetics of pseudomorphic mineral replacement reactions and their applications in materials syntheses  | PhD Thesis 2009  |
| PGRA   | Xia F; Brugger J; Chen G; Ngothai Y; O'Neill B; Putnis A; Pring A        | Mechanism and kinetics of pseudomorphic mineral replacement reactions: a case study of the replacement of pentlandite by violarite                                    | Geochim Cosmochim Acta <b>73</b> 1945-1969 2009  |

## The University of Auckland

|                |   |  |   |
|----------------|---|--|---|
| 07/001; 06/002 | Aswani S; Allen M S   | Marquesan coral reef (French Polynesia) in historical context: an integrated bio-cultural approach   | Aquat Conserv <b>19</b> 614-625 2008  |
| 07/001; 06/002 | Petchey F; Allen M S; Addison D J; Anderson A                             | Stability in the South Pacific surface marine <sup>14</sup> C reservoir over the last 750 years. Evidence from American Samoa, the southern Cook Islands and the Marquesas Islands | J Archaeol Sci <b>36</b> 2234-2243 2009                                     |
| 05/034         | D'Costa D M; Palmer J; Hogg A; Turney C; Fifield L K; Ogden J             | Stratigraphy, pollen and <sup>14</sup> C dating of Johnston's Gum Hole, a Late Quaternary fossil kauri ( <i>Agathis australis</i> ) site, Northland, New Zealand                   | J Quaternary Sci <b>24</b> 47-59 2009                                       |
| 09/123         | McGillivray D J; Singh R; Melton L D; Zhang J; Worcester D L <i>et al</i> | The role of antioxidant-protein interactions in biological membranes   | 8th AINSE/ANBUG Neutron Scattering Symposium 62 December 2009 Lucas Heights |

| Project Number | Chief Investigator<br>Coauthors  | Title of Publication   | Reference  |
|----------------|--|--|--|
| FELL           | McGillivray D J; Mata J P;<br>White J W; Zank J                                      | Nano- and microstructure of air/oil/water interfaces   | Langmuir 25 4065-4069 2009   |
| FELL           | Jackson A; Reynolds P;<br>McGillivray D J; White J W                                 | Droplet packing in high internal phase emulsions   | 9th International Conference on Neutron Scattering 80 May 2009 Knoxville   |
| FELL           | Heinrich F; Valincius G;<br>McGillivray D J;<br>Vanderah D J; Shekhar P;<br>Losche M | Molecular mechanism of membrane damage in neurodegenerative disease: interaction of soluble amyloid $\beta$ -oligomers with model membranes as seen by neutron reflection and electrochemical impedance spectroscopy | 9th International Conference on Neutron Scattering 96 May 2009 Knoxville   |
| FELL           | (McGillivray D J); Lin J-M;<br>White J W   | Denaturation resistance of $\beta$ -lactoglobulin in monomolecular films at the air-water interface  | 8th AINSE/ANBUG Neutron Scattering Symposium 28 2009   |
| FELL           | McGillivray D J  | Interactions between biological membranes and proteins studied with neutron and x-ray scattering   | 9th International Conference on Neutron Scattering 97 May 2009 Knoxville   |
| FELL           | Reynolds P A;<br>McGillivray D J; Jackson A J<br>White J W                           | Ultra small angle neutron scattering: a tool to study packing of relatively monodisperse small polymer spheres and their binary mixtures   | 8th AINSE/ANBUG Neutron Scattering Symposium 71 2009   |
| FELL           | Reynolds P A;<br>McGillivray D J; Jackson A J;<br>White J W                          | Ultra-small-angle neutron scattering: a tool to study packing of relatively monodisperse polymer spheres and their binary mixtures   | Phys Rev E 80 011301 2009  |
| FELL           | White J W; Perriman A W;<br>McGillivray D J; Lin J M                                 | Protein interfacial structure and nanotoxicology   | Nucl Instrum Meth A 600 263-265 2009   |
| FELL           | Yaron P N; Reynolds P A;<br>Mata J P; McGillivray D J;<br>White J W                  | Surfactant distribution in a co-surfactant high-internal phase emulsion under shear  | 8th AINSE/ANBUG Neutron Scattering Symposium 29 2009   |
| FELL           | Yaron P N; Reynolds P A;<br>Mata J P; McGillivray D J;<br>White J W                  | Surfactant distribution in a co-surfactant high-internal phase emulsion under shear  | 8th AINSE/ANBUG Neutron Scattering Symposium 29 December 2009 Lucas Heights  |
| FELL           | McGillivray D J; Mata J P;<br>White J W Zank J                                       | Nano- and microstructure of air/oil/water interfaces   | 8th AINSE/ANBUG Neutron Scattering Symposium 26 2009   |
| FELL           | McGillivray D J; Mata J P;<br>White J W Zank J                                       | Nano- and microstructure of air/oil/water interfaces   | 8th AINSE/ANBUG Neutron Scattering Symposium 26 2009   |
| 09/119         | Waterhouse G I N; Idriss H   | Photocatalytic reactions on model single crystal TiO <sub>2</sub> surfaces   | In: <i>On Solar Hydrogen and Nanotechnology</i> L Vayssieres (ed ) book chapter 77-90 2009 Wiley 978-0-470-82397-2 |
| PGRA           | Xun G; Dingley A;<br>McGillivray D J; Kralicek A;<br>Tremouilha P                    | Characterising antimicrobial protein-membrane complexes  | 8th AINSE/ANBUG Neutron Scattering Symposium 80 December 2009 Lucas Heights  |

## Australian National University

|        |                          |  |  |
|--------|--------------------------|--|--|
| 07/007 | (Bedford S); Reepmeyer C | The obsidian sources and distribution systems emanating from Gaua and Vanua Lava in the Banks Islands of Vanuatu | PhD Thesis 2009  |
| 06/026 | Cameron J                | New research into Dongson cloth from waterlogged sites in Vietnam  | Tenth Biennial Conference of the European Association of Southeast Asian Archaeologists <i>Uncovering Southeast Asia's Past</i> - selected papers 196-203 2006 London 9789971693510      |
| 06/026 | Cameron J                | Prehistoric interaction in the Asian Mediterranean   | Proceedings <i>Two Corridors and One Rim. A Mini Mediterranean Sea, Gulf of Tong King through History</i> Gu Xiao Song and Tana Li (eds) 99-110 2008 Nanning: Academy of Social Sciences |

| Project Number    | Chief Investigator<br>Coauthors                                  | Title of Publication   | Reference  |
|-------------------|--|--|--|
| 06/026            | Cameron J; Bellwood P; Bui Van Liem; Nguyen Viet                 | Ket qua nghien cuu vai trong van hoa Dongson tai di tich Dong xa (Hung-Yen) Trong hop tac khoa hoc Vietnam-Uc lan thu nhat   | Khao co hoc 2 20-25 2009   |
| 07/036            | (De Deckker P); Rogers J   | Late Quaternary radiolarians as proxies for past environmental conditions in the eastern and southern sectors of the Indian Ocean  | PhD Thesis 2009  |
| 04/046            | (Dunlap W J); Forster M A; Lister G                              | Core complex related extension of the Aegean lithosphere initiated at the Eocene-Oligocene transition  | J Geophys Res 114 B02401 2009  |
| 06/057            | Switzer A D; Felton E A; Fink D M; Crook K A W                   | The age of the coastal cliff-top platform and boulders at Little Beecroft Head, southeast Australia  | 7th International Conference on Geomorphology 64 2009 Melbourne, Australia   |
| PGRA              | Hope G S; Nanson R; Flett I                                      | The peat-forming mires of the Australian Capital Territory   | Technical Report, Territory and Municipal Services, ACT Government 19 57 2009  |
| 05/199            | Goossens D J; Beasley A G; Welberry T R; Gutmann M J; Piiltz R O | Neutron diffuse scattering in deuterated para-terphenyl, C <sub>18</sub> D <sub>14</sub>   | J Phys-Condens Mat 21(12) Article Number 124204 2009   |
| 05/199            | Goossens D J; Gutmann M J  | Revealing how interactions lead to ordering in para-terphenyl  | Phys Rev Lett 102 Article Number 015505-1-4 2009   |
| FELL              | Altin P A; Goossens D J  | Diffuse x-ray scattering from optically pure ibuprofen   | 31st Annual AIP Condensed Matter and Materials Meeting WP4 February 2007 Wagga Wagga   |
| FELL              | Chan E J; Welberry T R; Goossens D J; Heerdegen A P <i>et al</i> | Single-crystal diffuse scattering studies on polymorphs of molecular crystals. I. The room-temperature polymorphs of the drug benzocaine   | Acta Crystallogr B 65 382-392 2009   |
| FELL              | Goossens D J; Heerdegen A P; Welberry T R; Beasley A G           | The molecular conformation of ibuprofen, C <sub>13</sub> H <sub>18</sub> O <sub>2</sub> , through x-ray diffuse scattering   | Int J Pharm 343 59-68 2007   |
| FELL              | Goossens D J; Welberry T R                                       | Diffuse scattering from molecular crystals   | In: <i>Diffuse Scattering in the 21st Century: Emerging Insights into Materials Structure and Behavior</i> , R Barabash & G Ice (eds) 181-210 2009 978-1-60650-000-2 |
| FELL              | Goossens D J; Welberry T R; Heerdegen A P; Gutmann M J           | Simultaneous fitting of x-ray and neutron diffuse scattering data  | Acta Crystallogr A 63 30-35 2007   |
| FELL              | Hudspeth J M; Goossens D J; Studer A J; Withers R L; Norén L     | The crystal and magnetic structures of LaCa <sub>2</sub> Fe <sub>3</sub> O <sub>8</sub> and NdCa <sub>2</sub> Fe <sub>3</sub> O <sub>8</sub>                                       | J Phys-Condens Mat 21 Article Number 124206 2009   |
| FELL              | Whitfield R E; Goossens D J; Studer A J                          | Study of phase formation in metal injection moulding through real time neutron diffraction   | 9th International Conference on Neutron Scattering 155 May 2009 Knoxville  |
| FELL              | Wilson K F; Goossens D J   | Improving student engagement in 3rd year condensed matter physics: a case study  | 31st Annual AIP Condensed Matter and Materials Meeting TP30 February 2007 Wagga Wagga  |
| FELL              | Withers R L; Norén L; Goossens D J; Elcombe M M; Kearley G J     | Coupled Li <sup>1+</sup> /Nb <sup>5+</sup> and O <sup>2-</sup> /F <sup>-</sup> ordering on the Na and Cl sites of the average NaCl-structure of Li <sub>4</sub> NbO <sub>4</sub> F | J Solid State Chem 182 1109-1114 2009  |
| FELL              | Whitfield R E; Goossens D J; Studer A J                          | Temperature dependence of diffuse scattering in PZN  | 8th AINSE/ANBUG Neutron Scattering Symposium 53 December 2009 Lucas Heights  |
| 07/062;<br>08/026 | (Greene R); Shiga Y  | Dust and terrestrial salt (NaCl) in SE Australia: implications for aeolian co-transportation and co-deposition   | Master of Geographical Science Thesis 2009   |

| Project Number    | Chief Investigator<br>Coauthors                                    | Title of Publication   | Reference  |
|-------------------|--|--|--|
| 09/060            | Karlson L R;<br>Greene R S B; Scott K M;<br>Stelcer E; Cresswell R | Application of ion beam analysis and refined sample preparation techniques to the study of aeolian dust samples from Northwest Australia | 16th AINSE Conference on Nuclear and Complementary Techniques of Analysis 29 November 2009 Lucas Heights   |
| 01/067            | Haberle S G  | Juan Fernandez Islands   | In: <i>Encyclopedia of Islands</i> R Gillespie and D Clague (eds) 507-509 2009 University of California Press, Berkeley  |
| 02/051            | Denham T; Haberle S G  | Agricultural emergence and transformation in the Upper Wahgi valley, Papua New Guinea, during the Holocene: theory, method and practice  | Holocene 18 481-496 2008   |
| 07/064            | Willis K J; Bennett K D;<br>Haberle S G                            | Solar influence on Holocene fire history   | In: <i>Charcoals from the Past: Cultural and Palaeoenvironmental Implications</i> , G Fiorentino and D Magri (eds), British Archaeological Reports, International Series 1807 307-318 2009 |
| 01/074            | Hope G S; Stevenson J;<br>Southern W                               | Vegetation histories from the Fijian islands alternative records of human impact   | In: <i>The Early Prehistory of Fiji /Terra Australis</i> G Clark and A. Anderson eds 31 63-86 2009   |
| 06/080            | Hope G S   | Environmental change and fire in the Owen Stanley Ranges, Papua New Guinea   | Quaternary Sci Rev 28 2261-2276 2009   |
| PGRA              | Hudspeth J M; Corr C;<br>Nelson A; Boswell R W                     | Plasma polymerised proton conducting membranes   | 8th AINSE/ANBUG Neutron Scattering Symposium 55 December 2009 Lucas Heights  |
| 05/156            | Stevenson J; Siringan F;<br>Finn J; Madulid D; Heijnis H           | Paoay Lake, Northern Luzon, Philippines: a record of Holocene environmental change   | Global Change Biol doi: 10.1111/j.1365-2486.2009.02039.x 2010  |
| 000652;<br>001011 | Pasciak M; Goossens D J;<br>Welberry T R                           | Role of oxygen disorder in the ferroelectric phase transitions for various materials   | 8th AINSE/ANBUG Neutron Scattering Symposium 68 December 2009 Lucas Heights  |
| 00825             | Ang J C; Lin J-M; Yaron P N;<br>White J W                          | Protein trapping of nanoparticles  | 8th AINSE/ANBUG Neutron Scattering Symposium 42 2009   |

## University of Ballarat

|        |   |  |  |
|--------|---|--|--|
| 03/042 | Gell P  | The sensitivity of wetlands to climate and catchment change: South Eastern Australia                             | Biodiversity across the Borders. Florentine S K, Graz F P and Ambrose G J (ed) 11 University of Ballarat June 2009 |
| 05/062 | Gell P; Fluin J; Tibby J;<br>Hancock G; Harrison J;<br>Zawadzki A; Haynes D;<br>Khanum S <i>et al</i> | Anthropogenic acceleration of sediment accretion in lowland floodplain wetlands, Murray-Darling Basin, Australia | Geomorphology 108 122-126 2009   |

## University of Canberra

|      |                |   |                 |
|------|----------------|---|-----------------|
| PGRA | Abbondante S F | The effect of radioactive materials on forensic DNA evidence: procedures and interpretation | PhD Thesis 2009 |
|------|----------------|---|-----------------|

## CQUniversity

|        |  |  |  |
|--------|--|--|--|
| 06/126 | Metcalfe R D;<br>Blackford M G; Kong C       | Microstructure of fly ash particles AMAS X   | 10th Biennial Symposium of the Australian Microbeam Analysis Society 84 February 2009 Adelaide           |
| 09/135 | Pang G K H; Blackford M G;<br>Jelenkovic E V | Transmission electron microscopy (TEM) characterisation of thermally grown RuO <sub>2</sub> thin films | 16th AINSE Conference on Nuclear and Complementary Techniques of Analysis 71 November 2009 Lucas Heights |

| Project Number | Chief Investigator<br>Coauthors | Title of Publication | Reference |
|----------------|---------------------------------|----------------------|-----------|
|----------------|---------------------------------|----------------------|-----------|

## Charles Sturt University

|         |                     |   |                 |
|---------|---------------------|---|-----------------|
| 00/178S | (Robards K); Ryan D | Studies of the metabolic fate of phenolic compounds in <i>Olea europaea</i> L | PhD Thesis 2002 |
|---------|---------------------|---|-----------------|

## Charles Darwin University

|      |             |  |                 |
|------|-------------|--|-----------------|
| PGRA | Langeveld M | Nutrient status in a polluted, tropical, macrotidal environment-Buffalo Creek, Northern Territory, Australia | PhD Thesis 2009 |
|------|-------------|--|-----------------|

## Curtin University of Technology

|                 |  |  |   |
|-----------------|--|--|---|
| 07/179          | Jarrett K J; Garvey C J; Buckley C E   | The formation of tension wood in an acacia species and its effect on cellulose crystal structure   | 31st Annual AIP Condensed Matter Meeting T8 February 2009 Wagga Wagga       |
| PGRA            | Carter G A   | Controlling precipitation process in the production of value-added zirconia  | PhD Thesis 2009   |
| PGRA            | Carter G A; Hart R D; Rowles M R; Buckley C E; Ogden M I                                   | The effect of processing parameters on particle size in ammonia-induced precipitation of zirconyl chloride under industrially relevant conditions  | Powder Technol 19 218-226 2009  |
| PGRA            | Carter G; Hart R D; Rowles M; Ogden M I; Buckley C E                                       | Industrial precipitation of yttrium chloride and zirconyl chloride: effect of pH on ceramic properties for yttria partially stabilised zirconia  | J Alloy Compd 480 639-644 2009  |
| PGRA            | Carter; Rowles M; Ogden M I; Hart R D; Buckley C E   | Industrial precipitation of zirconyl chloride: the effect of pH and solution concentration on calcination of zirconia  | Mater Chem Phys 116 607-614 2009  |
| 07/038P         | De Marco R; Jee E; Prince K; Pretsch E; Bakker E   | Synthesis and characterization of high integrity solid-contact polymeric ion sensors   | J Solid State Electr 13 137-148 2009  |
| 08/018          | Chester R T; De Marco R; Mocerino M; Ogden M I; Skelton B W; White A H                     | Structures and properties of solvated and unsolvated iso-propyl functionalized calix[4]arenes  | Supramolecular Chemistry 21 479 - 485 2009                                  |
| 08/018; 07/038P | Veder J P; De Marco R; Clarke G; Chester R; Nelson A; Prince K <i>et al</i>                | Elimination of undesirable water layers in solid contact polymeric ion-selective electrodes  | Anal Chem 80 6731-6740 2008   |
| PGRA            | Lawrence S; Mulders A; Hoffman J-U; Kiefer K; Pomjakushina E; Conder K                     | Applied electric field study of multiferroic LuFe <sub>2</sub> O <sub>4</sub> by magnetic neutron diffraction  | 8th AINSE/ANBUG Neutron Scattering Symposium 10 December 2009 Lucas Heights |
| PGRA            | Mulders A M; Lawrence S M; Princep A J; Staub U; Bodenthin Y <i>et al</i>                  | Circularly polarized resonant soft x-ray diffraction study of helical magnetism in hexaferrite   | 8th AINSE/ANBUG Neutron Scattering Symposium 63 December 2009 Lucas Heights |
| PGRA            | Mulders A M; Lawrence S M; Staub U; Garcia-Fernandez M; Scagnoli V; Mazzoli C <i>et al</i> | Direct observation of charge order and an orbital glass state in multiferroic LuFe <sub>2</sub> O <sub>4</sub>   | Phys Rev Lett 103 0776021-0776024 2009                                      |
| PGRA            | Mulders A M; Shane M; Lawrence S M; Staub U; Scagnoli V <i>et al</i>                       | Direct observation of charge order and orbital glass state in multiferroic LuFe <sub>2</sub> O <sub>4</sub>  | 8th AINSE/ANBUG Neutron Scattering Symposium 64 December 2009 Lucas Heights |
| 000606          | Pang W K; Low I-M; O'Connor B H; Studer A J; Peterson V; Palmquist J-P                     | Thermal decomposition of Ti <sub>3</sub> SiC <sub>2</sub> and Ti <sub>3</sub> Si <sub>0.95</sub> Al <sub>0.05</sub> C <sub>2</sub> in vacuum: a comparative study using <i>in-situ</i> neutron diffraction | 8th AINSE/ANBUG Neutron Scattering Symposium 67 December 2009 Lucas Heights |

| Project Number | Chief Investigator<br>Coauthors  | Title of Publication  | Reference   |
|----------------|--|---|---|
| 000606         | Pang W K; Low I-M;<br>O'Connor B H; Studer A J;<br>Peterson V; Sun Z M                       | Effect of porosity on the mechanism of thermal dissociation of $Ti_3AlC_2$ in vacuum  | 8th AINSE/ANBUG Neutron Scattering Symposium 66 December 2009 Lucas Heights |
| 04/181         | Low I-M; Che B; Latella B A;<br>Sim K S  | Mechanical and fracture properties of bamboo  | Key Engineering Materials 312 12-20 2006                                    |
| 04/181         | Low I-M; Che Z Y; Latella B A  | Mapping the structure, composition and mechanical properties of bamboo  | J Mater Res 21 1969-1976 2006   |
| 04/181         | Low I-M; McGrath M;<br>Lawrence D; Schmidt P;<br>Lane J; Latella B A <i>et al</i>            | Mechanical and fracture properties of cellulose-fibre-reinforced epoxy laminates  | Composites Part A-Applied Science and Manufacturing 38 963-974 2007         |
| 04/207         | Skala R D; Li D; Low I-M   | Diffraction, structure and phase stability studies on aluminium titanate  | J Europ Ceram Soc 29 67-75 2009   |
| 06112          | Tezuka N; Low I-M;<br>Davies I J; Alecu I D;<br>Stead R J; Latella B A <i>et al</i>          | Effect of fluoride and oxide additives on the phase transformations in alumina/clay ceramics                                      | J Austral Ceram Soc 45 19-27 2009   |
| 08/041         | Pang W K; Low I-M;<br>Hanna J V  | Detection of amorphous silica in air-oxidized $Ti_3SiC_2$ at 500 – 1000°C   | J Austral Ceram Soc 45 39-43 2009   |
| 08/041         | Pang W K; Low I-M;<br>Hanna J V; Prince K E;<br>Atanacio A J; Palmquist J P                  | Observation of amorphous silica in air-oxidized $Ti_3SiC_2$ at 500 – 1200°C by NMR and SIMS                                       | J Am Ceram Soc 45 39-43 2009  |
| 08/041         | Pang W K; Low I-M;<br>O'Connor B H; Prince K E   | Oxidation of $Ti_3AlC_2$ over the temperature range 500 – 900°C   | Mater Chem Phys 117 384-389 2009  |
| 08/329         | Pang W K; Low I-M  | Diffraction study of thermal dissociation in the ternary Ti-Al-C system   | J Austral Ceram Soc 45 30-33 2009   |
| 08/329         | Pang W K; Low I-M;<br>O'Connor B H; Studer A J;<br>Peterson V K; Palmquist J P               | Effect of vacuum annealing on the thermal stability of $Ti_3SiC_2/TiC/TiSi_2$ composites  | J Austral Ceram Soc 45 72-77 2009   |
| 08/145         | Pang W K; Low I-M;<br>O'Connor B; Studer A <i>et al</i>                                      | Comparison of thermal stability in MAX 211 and 312 phases   | 9th International Conference on Neutron Scattering 114 May 2009 Knoxville   |
| PGRA           | Chin S F; Iyer K S;<br>Saunders M; St Pierre T G;<br>Buckley C; Paskevicius M;<br>Raston C L | Encapsulation and sustained release of curcumin using superparamagnetic silica reservoirs   | Chem-Eur J 15 5661-5665 2009  |
| PGRA           | Chin S-F; Iyer K S;<br>Saunders M; St Pierre T;<br>Buckley C E; Paskevicius M;<br>Raston C L | Silica encapsulated superparamagnetic reservoirs for targeted and sustained release of curcumin                                   | Chem-Eur J 15 5661-5665 2009  |
| PGRA           | Koutsantonis G; Nealon G;<br>Buckley C;<br>Paskevicius M; <i>et al</i>                       | Wormlike micelles from a cage amine metallosurfactant   | Langmuir 23 11986-11990 2007  |
| PGRA           | Paskevicius M;<br>Sheppard D A; Buckley C E  | Characterisation of mechanochemically synthesised alane ( $AlH_3$ ) nanoparticles   | J Alloy Compd 487 370-376 2009  |
| PGRA           | Paskevicius M; Webb J;<br>Pitt M P; Blach T P;<br>Hauback B C; Gray E M <i>et al</i>         | Mechanochemical synthesis of aluminium nanoparticles and their deuterium sorption properties to 2 kbar                            | J Alloy Compd 481 595-599 2009  |
| PGRA           | Carter G; Buckley C E;<br>Ogden M; Maitland C;<br>Paskevicius M                              | Ammonia-induced precipitation of zirconyl chloride and zirconyl-yttrium chloride solutions under industrially relevant conditions | Powder Technol 188 222-228 2009   |

| Project Number | Chief Investigator<br>Coauthors             | Title of Publication   | Reference   |
|----------------|---|--|---|
| 000635         | Sheppard D A;<br>Paskevicius M; Buckley C E | Thermodynamic changes in mechanochemically synthesised magnesium hydride nanoparticles | 8th AINSE/ANBUG Neutron Scattering Symposium 35 December 2009 Lucas Heights |
| PGRA           | Sheppard D                                  | Hydrogen storage studies of mesoporous and titanium based materials                    | PhD Thesis 2008   |

## Deakin University

|      |  |   |   |
|------|--|---|---|
| PGRA | Rajkhowa R; Naik R;<br>Wang L; Smith S V; Wang X | An investigation into the metal binding behaviour of silk using radiotracer probes                          | Proc Fiber Society Spring Conference 2 1388-1389 2009 Shanghai China            |
| PGRA | Rajkhowa R; Naik R;<br>Wang L; Smith S; Wang X   | Mulberry and non-mulberry silk fibres and particles as sorbents for binding transition and heavy metal ions | 10th Asian Textile Conference 84 September 2009 Shinshu University, Ueda, Japan |

## Edith Cowan University

|                   |                                 |  |  |
|-------------------|---------------------------------|--|--|
| 07/152;<br>08/064 | Wajrak M; Hart R D;<br>Prince K | Investigation of electrochemically deposited arsenic on the surface of solid gold electrodes using SIMS, SEM and synchrotron soft x-rays | 16th AINSE Conference on Nuclear and Complementary Techniques of Analysis 19 November 2009 Lucas Heights |
|-------------------|---------------------------------|--|--|

## Flinders University

|         |   |  |  |
|---------|---|--|--|
| 05/010  | Forbes M S; Krull E S;<br>Bestland E A; Wells R T   | Chronology and organic chemistry of the Black Creek Swamp megafauna site (Late Pleistocene), Kangaroo Island, Australia                                  | Boreas 1-13 2009 0300-9483   |
| 05/028  | Hartley V; Matisons J G;<br>Bartlett J; Clarke S R;<br>Cassidy D                            | Transition metal nanoclusters in a poly(methylmethacrylate) matrix   | 28th Australasian Polymer Symposium (RACI Polymer Division) A3/6 February 2006 |
| 05/028  | Hartley V; Matisons J;<br>Bartlett J; Ginic-Markovic M;<br>Schultz J; Clarke S <i>et al</i> | Inorganic-organic hybrid polymers by polymerisation of methylmethacrylate mechanical and optical properties  | Pacificchem MATL-836 December 2005 Honolulu, Hawaii                            |
| 07/126P | (Quinton J); Jasieniak M;<br>Ionescu M; Shapter J G;<br>Gooding J J <i>et al</i>            | ToF-SIMS characterisation of methane- and ToF-SIMS characterisation of methane- and hydrogen-plasma-modified graphite using principal component analysis | Surf Interface Anal 41 216-224 2009  |

## GNS Science

|        |  |   |  |
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| 06/229         | (Gray E); Busbridge T                          | Hydrogen modification of MgB <sub>2</sub> superconductor  | BSc Honours Thesis 2006           |
| 06/229         | (Gray E); Ockert S                             | Hydrogen storage in lithium borohydride   | BSc Honours Thesis 2006           |
| 06/230         | (Gray E); Burt A                               | Li-Mg alloys for hydrogen storage   | BSc Honours Thesis 2006           |
| 06/230         | (Gray E); Gallagher H                          | Hydrogen trapping in LaNi <sub>5</sub>  | BSc Honours Thesis 2006           |
| 08/099         | Han J; Dimitrijević S; Kong F; Atanacio A      | SIMS investigation on the 3C-SiC on Si  | J Mater Sci Eng 3 15-17 2009      |
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## James Cook University

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| 07/158            | (Whittingham I); Barnett R                                     | Investigations of bio-functional thin films for implantable bionic devices  | Honours Thesis 2007   |
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## La Trobe University

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| PGRA            | Raiber M  | Hydrogeological and hydrogeochemical studies of aquifer and groundwater-surface water interactions and their impact on water resources in the basalt plains of Western Victoria, Australia | PhD Thesis 2009   |
| PGRA            | Raiber M; Webb J A; Bennetts, D A                       | Strontium isotopes as tracers to delineate aquifer interactions and the influence of rainfall in the basalt plains of southeastern Australia   | Hydrology 367 188-199 2009  |
| PGRA;<br>05/172 | Raiber M; Webb J A                                      | Development of the Streatham Deep Lead System in Western Victoria: implications for Tertiary tectonism and landscape evolution   | Austral J Earth Sci 55 493-508 2008                                       |
| PGRA;<br>05/172 | Raiber M; Webb J A; White P A; Cendon D I; Jacobsen G E | Combining environmental tracers and geological modelling to understand and visualise the controls on groundwater quality in the Basalt Plains of western Victoria                          | 10th Australasian Environmental Isotope Conference 15 December 2009 Perth |

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| PGRA           | Hagerty S K; Webb J A;<br>Dyson P R; Jacobsen G E;<br>Chisari R; Poulson S R <i>et al</i> | Tracing groundwater flow in granite landscapes using $\delta^{18}\text{O}$ , $\delta^2\text{H}$ , $^3\text{H}$ and $^{14}\text{C}$ in the upper Wimmera catchment, western Victoria | 10th Australasian Environmental Isotope Conference and 3rd Australasian Hydrogeology Research Conference Abstracts 19 2009 |

## Macquarie University

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| 99/105            | Sowada K N; Grave P                             | Egypt in the Eastern Mediterranean during the Old Kingdom: an archaeological perspective  | Orbis Biblicus et Orientalis 237 Fribourg, 2009 |
| 05/159            | (Strezov V); Shah P                             | Speciation of trace elements in coal combustion systems   | PhD Thesis 2009                                 |
| 08/062            | Collins S R; Weldon C W;<br>Banos C; Taylor P W | Optimising irradiation dose for sterility induction and quality of Queensland fruit flies, <i>Bactrocera tryoni</i> (Froggatt)                  | J Econ Entom 102 1791-1800 2009                 |

## The University of Melbourne

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| 08/011            | Camakaris J  | The role of copper in neurodegenerative diseases   | 4th International Conference on Metals and Genetics 27 2008 Paris                    |
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| 07/025,<br>08/012 | Drisko G L; Luca V; Sizgek E;<br>Scales N; Caruso R A                    | Template synthesis and adsorption properties of hierarchically porous zirconium titanium oxides  | Langmuir 25 5286-5293 April 2009   |
| 07/027            | (Caruso R A); Doherty C M  | Porous $\text{LiFePO}_4$ : advanced templated structures for high powered lithium ion batteries  | PhD Thesis 2009  |
| 07/031            | (Caruso R A); Huang F  | Synthesis, modification and characterization of novel electrodes for dye-sensitized solar cells  | PhD Thesis 2009  |
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| 05/124;<br>08/047 | Mills R D; Trehwella J;<br>Qiu T W; Hanley T, Knott R B;<br>Mulhern T <i>et al</i>             | Domain organization of the monomeric form of the Tom70 mitochondrial import receptor  | J Mol Biol 388 1043–1058 2009  |
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| FELL              | White C; Provis J L;<br>Riley D P; Proffen T;<br>van Deventer J S J                            | Towards total structure solutions of disordered layered aluminosilicates  | 9th International Conference on Neutron Scattering 140 May 2009 Knoxville  |
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| 08/079         | Wang Y D; Siegele R;<br>Tan W N; Wu L H; Luo Y M;<br>Baker A J M | Application of micro-PIXE in studying the spatial distribution and localization of zinc in the Zn-hyperaccumulator <i>Sedum plumbizincicola</i> | 16th AINSE Conference on Nuclear and Complementary Techniques of Analysis 90 November 2009 Lucas Heights |

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## Murdoch University

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| Project Number | Chief Investigator<br>Coauthors   | Title of Publication  | Reference   |
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| PGRA           | Hackett M J; El-Assad F;<br>McQuillan J A; Carter E A;<br>Grau G E; Hunt N H;<br>Cohen D <i>et al</i> | Hypoxia and cerebral malaria pathogenesis: new investigations using vibrational spectroscopy  | 16th AINSE Conference on Nuclear and Complementary Techniques of Analysis 26 November 2009 Lucas Heights                      |
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| PGRA           | Jacques D A; Streamer M;<br>Rowland S L; King G F;<br>Guss M J; Trewella J <i>et al</i>               | Structure of the sporulation histidine kinase inhibitor Sda from <i>Bacillus subtilis</i> and insights into its solution state                  | Acta Crystallogr A D65 574-581 2009   |
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| 000892         | Ting J; Kennedy B J   | Structure and properties of multiferroic lanthanide and manganese co-substituted bismuth titanates  | 9th International Conference on Neutron Scattering 141 May 2009 Knoxville   |
| 09/0845        | Peterson V K; Wu Y;<br>Kearley G J; Kepert C J  | New mechanism of negative thermal expansion in a coordination frame work material   | 9th International Conference on Neutron Scattering 136 May 2009 Knoxville   |
| PGRA           | Ma W  | Diamond-like carbon biomaterial coatings: effect of physical properties on biological response  | PhD Thesis 2008   |
| 08/133         | Stockmann U; McBratney A;<br>Minasny B; Fink D; Mifsud C  | Quantifying soil formation in the landscape   | The 7th International Conference on Geomorphology, Ancient Landscapes – Modern Perspectives 77 Melbourne, Australia July 2009 |
| PGRA           | Burgmann F A;<br>McCulloch D G; Ryves L;<br>Lim S H N; Bilek M M M <i>et al</i>                       | Enhancing the hardness of Al/W nanostructured coatings  | J Phys-Condens Mat 21 Article Number 055003 2009  |
| PGRA           | Ryves L; Bilek M M M;<br>McKenzie D R   | Cathode spot dynamics in a high current pulsed arc: a noise study   | IEEE Transactions on Plasma Science 37 365-368 2009   |
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| PGRA           | Saines P J; Kennedy B J;<br>Smith R I   | Structural phase transitions in $BaPrO_3$   | Mater Res Bull 44 874-879 2009  |
| PGRA           | Thorogood G J;<br>Elcombe M M; Saines P J;<br>Kennedy B J; Withers R L                                | Diffuse scattering and cation disorder in the cesium pyrochlore $CsTi_{0.5}W_{1.5}O_6$  | Mater Res Bull 43 787-795 2008  |
| PGRA           | Ling C D; Avdeev M;<br>Kharton V V; Yaremchenko A;<br>Sharma N <i>et al</i>                           | Structures, phase transitions, hydration and ionic conductivity of $Ba_4Nb_2O_9$  | Chem Mater 21 3853-3864 2009  |
| PGRA           | Sharma N  | Synthesis, structure and properties of some novel transition metal-doped bismuth oxides: From fluorite-type to aurivillius-type                 | PhD Thesis 2009   |
| PGRA           | Sharma N; Ling C  | delta- $Bi_2O_3$ -type structures in Bi-M-O systems, M=Nb, W, Mo and Re   | 9th International Conference on Neutron Scattering 136 May 2009 Knoxville   |
| PGRA           | Sharma N; Macquart R B;<br>Christensen M; Chen Y;<br>Ling C D   | Structure and crystal chemistry of fluorite-related $Bi_{38}Mo_7O_{78}$ from single crystal x-ray diffraction and <i>ab initio</i> calculations | J Solid State Chem 182 1312-1318 2009   |
| PGRA           | Sharma N; Withers R L;<br>Knight K S; Ling C D  | Structure, crystal chemistry, and thermal evolution of the $\delta$ - $Bi_2O_3$ -related phase $Bi_9ReO_{17}$                                   | J Solid State Chem 182 2468-2474 2009   |

| Project Number | Chief Investigator<br>Coauthors  | Title of Publication  | Reference   |
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| 03/116P        | Carter E A; Hargreaves M D; Kononenko N; Graham I; Torrence R <i>et al</i> | Raman spectroscopy applied to understanding prehistoric obsidian trade in the Pacific region          | Vibrational Spectroscopy 50 116-124 2009                                    |
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| 07/157         | (White P); Torrence R; Swadling P; Ambrose W; Summerhayes G <i>et al</i>   | Mid-Holocene social interaction in Melanesia: new evidence from hammer-dressed obsidian stemmed tools | Asian Perspectives 48 119-148 2009  |

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| 07/057             | Agius J T; Gibson J A E; Rico E; Quesada A  | Paleolimnological evidence confirms that <i>Parochlus steinenii</i> (Gerke) is not a recent introduction to the Antarctic Peninsula region   | Chironomus 22 14-17 2009  |
| 07/072             | Howard W; Roberts D; Moy A; Roberts J; Trull T; Bray S; Hopcroft R                    | Ocean acidification impacts on southern ocean calcifiers   | IOP Conference Series: Earth and Environmental Science 46 462001 2009<br>doi:10.1088/1755-1307/6/6/462001 |
| 07/072P            | Howard W R; Moy A; Trull T; Bray S  | Reduced calcification in modern Southern Ocean planktonic foraminifera   | Nat Geosci 4 276-280 2009   |
| PGRA               | Pedro J B; Smith A M; Duldig M L; Klekociuk A R; Simon K J; Curran M A J <i>et al</i> | <sup>10</sup> Be concentrations in snow at Law Dome, Antarctica following the 29 Oct 2003 and 20 Jan 2005 solar cosmic ray events  | Advances in Geosciences 14 285-303 2009   |
| PGRA               | Pedro J; Smith A; van Ommen T; Duldig M; Curran M                                     | Testing the utility of ice core records of <sup>10</sup> Be as proxy indicators of past ground level enhancements in cosmic rays   | 6th Australia Oceania Geosciences Meeting ST01_A002 August 2009 Singapore                                 |
| PGRA<br>Saunders K | Saunders K M; Hodgson D A; McMinn A   | Quantitative relationships between benthic diatom assemblages and water chemistry in sub-Antarctic Macquarie Island lakes and their potential to reconstruct past environmental change | Antarct Sci 21 35-49 2009   |

## University of Technology Sydney

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| 07/043P | (Eamus D); Taylor D  | Tree, leaf and branch trait coordination along an aridity gradient                            | PhD Thesis 2009                         |
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| 08/074  | Mak J; Wuhrer R; Heness G; Qin J; Lu W; Zhang D; Yeung W Y                     | Microstructural analysis on Ti-6Al-4V and 10 vol% (TiB+TiC)/Ti-6Al-4V metal matrix composites | Advanced Materials Research 32 115 2008 |
| 08/074  | Mak J; Wuhrer R; Heness G; Yeung W Y; Callaghan M; Wei T; Qin J; Lu W; Zhang D | Punch test of advanced <i>in-situ</i> synthesized Ti metal matrix composites                  | Advanced Materials Research 47 738 2008 |

## The University of Western Australia

| Project Number    | Chief Investigator<br>Coauthors   | Title of Publication  | Reference  |
|-------------------|---|---|--|
| 04/015;<br>07/019 | Bradshaw D; Bradshaw F J  | Measurement of the rate of protein turnover and synthesis in the marsupial Honey possum ( <i>Tarsipes rostratus</i> ) | J Comp Physiol B 179 183-192 2009  |
| PGRA              | Carroll M R J;<br>Woodward R C; House M J;<br>Huffstetler P P; Goff J D <i>et al</i>    | The effects of nanoparticle polymer stabilisers on the contrast of magnetic resonance images                          | 16th AINSE Conference on Nuclear and Complementary Techniques of Analysis 18 November 2009 Lucas Heights |
| PGRA              | Huffstetler P; Reinholz C;<br>Carroll M R J; Woodward R C;<br>Pierre T G S <i>et al</i> | Synthesis, modeling and relaxivities of contrast agents for MRI   | POLY 55 Abstracts 236 Amer Chem Soc 2008   |

## University of Western Sydney

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## University of Wollongong

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| PGRA                                     | Callaghan M  | A study of the high temperature fatigue behaviour and life prediction of 2.25Cr-1Mo alloy steel through the development of standard-sized and miniature specimen testing techniques | PhD Thesis 2008  |
| 07/030                                   | Wilson P R; Chen Z                                       | TEM characterisation of iron titanium sulphide in titanium- and niobium-containing low manganese steel  | Scripta Mater 56 753-756 2007  |
| 01/182S                                  | (Chivas A); Couapel M J J;<br>Bowles C J                 | Impact of gamma densitometry on the luminescence signal of quartz grains  | Geo-Marine Letters 26 1-5 2006   |
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| 04/030;<br>04/217                        | (Chivas A); Hemmati H                                    | Bio- and pedogeochemical investigations in southern Australia: implications for mineral exploration and environmental assessment  | PhD Thesis 2006  |
| 01/031;<br>02/023                        | Ackerman B R; Chivas A R                                 | Tritton copper deposit, Girilambone district, NSW   | In: <i>Regolith Expression of Australian Ore Systems</i> . Butt C R M, Robertson I D M, Scott K M and Cornelius M (eds) 199-201 2005 CRC LEME (Co-operative Research Centre for Landscape Environments and Mineral Exploration) Perth, Australia |
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| Project Number                           | Chief Investigator<br>Coauthors   | Title of Publication   | Reference   |
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| 98/155R;<br>01/032;<br>02/025;<br>05/027 | Reeves J M; Chivas A R;<br>García A; Holt S;<br>Couapel M J J; Jones B G;<br>Cendón D I; Fink D | The sedimentary record of palaeoenvironments and sea-level change in the Gulf of Carpentaria, Australia, through the last glacial cycle                    | Quatern Int 183 3-22 2008   |
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| 05/065                                   | Gillespie R; Fink D;<br>Petchey F; Jacobsen G   | Murray-Darling basin freshwater shells: riverine reservoir effect  | Archaeology in Oceania 44 107-111 2009  |
| 08/039                                   | (Lerch M L F ); Cullen A  | Strip detector for high spatial resolution dosimetry in radiation therapy  | MSc Thesis 2009   |
| 08/039                                   | Cullen A J; Lerch M L F;<br>Rosenfeld A B   | Modelling the dosimetric effects of an in-line multichannel quality assurance silicon detector in synchrotron x-ray microbeam radiation therapy            | 10th International Conference on Synchrotron Radiation Instrumentation Abstracts 253 September 2009 Melbourne |
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| FELL                                     | McGregor H V; Hellstrom J;<br>Woodroffe C W; Hua Q;<br>Fink D <i>et al</i>                      | Age 'range finding' of Kiritimati (Christmas) Island fossil microatolls: an effective and rapid age dating method for climate and sea-level reconstruction | Consortium for Ocean Geoscience of Australian Universities Biennial Meeting 13 July 2009 Perth WA             |
| 02/091                                   | Clarke S J; Miller G H;<br>Fogel M L; Chivas A R;<br>Murray-Wallace C V                         | The amino acid and stable isotope biogeochemistry of elephant bird ( <i>Aepyornis</i> ) eggshells from southern Madagascar                                 | Quaternary Sci Rev 25 2343-2356 2006  |
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| 08/056         | (Rozenfeld A);<br>Safavi-Naeini M; Deeley G;<br>Franklin D R; Petasecca M;<br>Lerch M L F <i>et al</i> | TCAD and IBIC charge collection modeling of a novel silicon detector for use in medical imaging   | 16th AINSE Conference on Nuclear and Complementary Techniques of Analysis 77 November 2009 Lucas Heights   |
| 09/112         | Fuks E; Horowitz Y S;<br>Horowitz A; Oster L;<br>Marino S; Siegele R;<br>Rozenfeld A <i>et al</i>      | Glow curve characteristics of LiF:Mg,Ti (TLD-100) following irradiation by heavy charged particles: High temperature thermoluminescence and the peak 5a/5 nanodosimeter                         | 16th AINSE Conference on Nuclear and Complementary Techniques of Analysis 65 November 2009 Lucas Heights   |
| 09/112         | Livingstone J; Horowitz Y S;<br>Oster L; Datz H; Lerch M;<br>Rozenfeld A                               | Experimental investigation of the 100 keV x-ray dose response of the high temperature thermoluminescence in LiF:Mg,Ti (TLD-100): Theoretical Interpretation using the unified interaction model | Radiat Prot Dosim <a href="http://rpd.oxfordjournals.org/content/early/2009/11/24/rpd.ncp272">http://rpd.oxfordjournals.org/content/early/2009/11/24/rpd.ncp272</a> 2009 |
| FELL           | (Tehei M); Clement D   | Protein dynamics and its correlation to activity and stability  | PhD Thesis September 2009  |
| FELL           | Jasnin; Tehei M; Moulin M;<br>Haertlein M; Zaccai G  | Down to atomic-scale intracellular water dynamics: a quasielastic neutron study   | Faraday Division 141: Water – From Interfaces to the Bulk 478 August 2008 Heriot-Watt University Edinburgh   |
| FELL           | Moulin M; Haertlein M;<br>Zaccai G; Tehei M  | <i>In vivo</i> measurement of water, internal and global macromoleucular motions in <i>Escherichia coli</i>   | 9th International Conference on Neutron Scattering 95 May 2009 Knoxville   |
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| FELL           | Trapp M; Gutberlet T;<br>Juranyi F; Tehei M; Unruh T;<br>Peters J                                      | Quasi-elastic and elastic scattering studies of aligned DMPC multilayers at different hydrations  | XIII European Conference on the Spectroscopy of Biological Molecules 137 August 2009 Palermo   |
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| FELL           | Fabiani E; Stadler A M;<br>Madern D; Koza M M;<br>Tehei M; Hirai M; Zaccai G                           | Dynamics of apomyoglobin in the alpha-to-beta transition and of partially unfolded aggregated protein   | Eur Biophys J Biophys 38 237-244 2009  |
| FELL           | Frolich A; Gabel F; Jasnin M;<br>Lehnert U; Oesterhelt D;<br>Stadler A M; Tehei M <i>et al</i>         | From shell to cell: neutron scattering studies of biological water dynamics and coupling to activity  | Faraday Discuss 141 117-130 June 2009  |
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| 03/128P        | (Woodroffe C); Simms A   | Formulating and testing a distributed, empirically-based soil loss model, OzMUSLE, using soil remobilisation and sedimentation studies  | PhD Thesis 2007  |
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| PGRA           | Wroe A J; Cornelius I M;<br>Rosenfeld A B  | The role of nonelastic reactions in absorbed dose distributions from therapeutic proton beams in different medium   | Med Phys 32 37-41 2005   |

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| PGRA           | Wyatt A R   | The role of clusterin (CLU) in extracellular protein folding quality control           | PhD Thesis 2009   |
| PGRA           | Wyatt A R; Yerbury J J;<br>Poon S; Wilson M R   | Therapeutic targets in extracellular protein deposition diseases                       | Curr Med Chem 16 2855-2866 2009   |
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| PGRA           | Lai N S; Lim W H;<br>Ziebell A L; Reinhard M I;<br>Rosenfeld A B; Dzurak A S                              | Development and fabrication of cylindrical silicon-on-insulator microdosimeter arrays  | IEEE T Nucl Sci 56 424-428 2009   |
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| PGRA           | Ziebell A L; Hu N; Lai N S;<br>Lim W H; Reinhard M I;<br>Prokopovich D A;<br>Siegele R <i>et al</i>       | 2nd generation microdosimeter with guard ring: an IBIC study                           | 16th AINSE Conference on Nuclear and Complementary Techniques of Analysis 9 November 2009 Lucas Heights |
| PGRA           | Ziebell A; Dowdell S;<br>Reinhard M; Clasic B;<br>Wroe A; Schulte R; Lerch M;<br>Petasecca M <i>et al</i> | Dual detector system for measuring the out-of-field neutron dose in proton therapy     | IEEE 2009 Nuclear Science Symposium and Medical Imaging Conference 2358 2009                            |





# University Codes

| CODE | UNIVERSITY                         | CODE | UNIVERSITY                          |
|------|------------------------------------|------|-------------------------------------|
| ACU  | Australian Catholic University     | MUR  | Murdoch University                  |
| ADE  | The University of Adelaide         | NCT  | The University of Newcastle         |
| AKL  | The University of Auckland         | NSW  | The University of New South Wales   |
| ANS  | ANSTO                              | NTU  | Charles Darwin University           |
| ANU  | The Australian National University | OTA  | University of Otago                 |
| BAL  | University of Ballarat             | QLD  | The University of Queensland        |
| CAN  | University of Canterbury           | QUT  | Queensland University of Technology |
| CBR  | University of Canberra             | RMI  | RMIT University                     |
| CQU  | CQ University                      | SCU  | Southern Cross University           |
| CSU  | Charles Sturt University           | USQ  | University of Southern Queensland   |
| CUR  | Curtin University of Technology    | SWI  | Swinburne University of Technology  |
| DEA  | Deakin University                  | SYD  | The University of Sydney            |
| ECU  | Edith Cowan University             | TAS  | University of Tasmania              |
| FLI  | Flinders University                | UNE  | The University of New England       |
| GNS  | GNS Science                        | USA  | University of South Australia       |
| GRI  | Griffith University                | UTS  | University of Technology Sydney     |
| JAM  | James Cook University              | UWA  | The University of Western Australia |
| LAT  | La Trobe University                | UWS  | University of Western Sydney        |
| MAC  | Macquarie University               | VIC  | Victoria University of Technology   |
| MEL  | The University of Melbourne        | WOL  | University of Wollongong            |
| MON  | Monash University                  |      |                                     |

## Specialist Areas

|   |  |
|---|--|
| A | Archaeology and Geosciences            |
| B | Biomedical Science and Biotechnology   |
| E | Environmental Science                  |
| G | Bragg Institute - Neutron Scattering   |
| M | Materials – Properties and Engineering |
| N | Materials – Structures and Dynamics    |