

Aasi, J., J. Abadie, et al. (2012). "The characterization of Virgo data and its impact on gravitational-wave searches." [Classical and Quantum Gravity](#) **29**(15).

Abadie, J., B. P. Abbott, et al. (2012). "All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run." [Physical Review D - Particles, Fields, Gravitation and Cosmology](#) **85**(12).

Abadie, J., B. P. Abbott, et al. (2012). "First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts." [Astronomy and Astrophysics](#) **541**.

Abadie, J., B. P. Abbott, et al. (2012). "Search for gravitational waves from intermediate mass binary black holes." [Physical Review D - Particles, Fields, Gravitation and Cosmology](#) **85**(10).

Abadie, J., B. P. Abbott, et al. (2012). "Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600-1000 Hz." [Physical Review D - Particles, Fields, Gravitation and Cosmology](#) **85**(12).

Abadie, J., B. P. Abbott, et al. (2012). "Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts." [Astronomy and Astrophysics](#) **539**.

Abadie, J., B. P. Abbott, et al. (2012). "Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3." [Physical Review D - Particles, Fields, Gravitation and Cosmology](#) **85**(8).

Abadie, J., B. P. Abbott, et al. (2012). "All-sky search for periodic gravitational waves in the full S5 LIGO data." [Physical Review D - Particles, Fields, Gravitation and Cosmology](#) **85**(2).

Abadie, J., B. P. Abbott, et al. (2012). "Search for gravitational waves associated with gamma-ray bursts during Ligo science run 6 and Virgo science runs 2 and 3." [Astrophysical Journal](#) **760**(1).

Abadie, J., B. P. Abbott, et al. (2012). "Erratum: Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1 (Physical Review D - Particles, Fields, Gravitation and Cosmology)." [Physical Review D - Particles, Fields, Gravitation and Cosmology](#) **85**(8).

Abadie, J., B. P. Abbott, et al. (2012). "Erratum: Search for gravitational waves from binary black hole inspiral, merger, and ringdown (Physical Review D - Particles, Fields, Gravitation and Cosmology)." [Physical Review D - Particles, Fields, Gravitation and Cosmology](#) **85**(8).

Abadie, J., B. P. Abbott, et al. (2012). "Erratum: All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run (Physical Review D - Particles, Fields,

Gravitation and Cosmology (2010) 81 (102001)." Physical Review D - Particles, Fields, Gravitation and Cosmology **85**(8).

Abadie, J., B. P. Abbott, et al. (2012). "Erratum: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar (Physical Review D - Particles, Fields, Gravitation and Cosmology)." Physical Review D - Particles, Fields, Gravitation and Cosmology **85**(8).

Abadie, J., B. P. Abbott, et al. (2012). "Implications for the origin of GRB 051103 from LIGO observations." Astrophysical Journal **755**(1).

Abdul-Kadir, M., P. R. Clements, et al. (2012). "Pre-organisation or a hydrogen bonding mismatch: Silver(I) diamide ligand coordination polymers versus discrete metallo-macrocyclic assemblies." Supramolecular Chemistry **24**(8): 627-640.

Abdul-Kadir, M., L. R. Hanton, et al. (2012). "Building blocks for coordination polymers: Self-assembled cleft-like and planar discrete metallo-macrocyclic complexes." Dalton Transactions **41**(15): 4497-4505.

Abed, A. M., A. Abu Hamad, et al. (2012). "Development of calcrete and clinoforms during emergence and flooding of the Late Cenomanian carbonate platform, Jordan." Facies: 1-14.

Abul Khair, H., D. Cooke, et al. (2012). Preliminary workflow for subsurface fracture mapping using 3D seismic surveys: A case study from the Cooper Basin, South Australia. Geothermal Resources Council Annual Meeting 2012 - Geothermal: Reliable, Renewable, Global, Reno, NV.

Acres, R. G., A. V. Ellis, et al. (2012). "Molecular structure of 3-aminopropyltriethoxysilane layers formed on silanol-terminated silicon surfaces." Journal of Physical Chemistry C **116**(10): 6289-6297.

Addicoat, M. A., K. F. Lim, et al. (2012). "Reactions of Nb 2 and Nb 3 with CO, D 2, N 2, and O 2: Reconciling experimental kinetics with density functional theory-calculated reaction profiles." Journal of Chemical Physics **137**(3).

Ahmad, M. and M. Haghghi (2012). Mineralogy and petrophysical evaluation of Roseneath and Murteree shale formations, Cooper Basin, Australia using QEMSCAN and CT-scanning. SPE Asia Pacific Oil and Gas Conference and Exhibition 2012: Providing a Bright Future, Perth, WA.

Ainsworth, R. B., S. T. Hasiotis, et al. (2012). "Tidal signatures in an intracratonic playa lake." Geology **40**(7): 607-610.

Aitken, J. B., S. Antony, et al. (2012). "Distinct cellular fates for KP1019 and NAMI-A determined by X-ray fluorescence imaging of single cells." Metallogomics **4**(10):

1051-1056.

Aji, K., C. McLindin, et al. (2012). Colloidal-suspension flow in rocks: A new mathematical model, laboratory study, IOR. SPE EOR Conference at Oil and Gas West Asia 2012 - EOR: Building Towards Sustainable Growth, OGWA, Muscat, Oman.

Aji, K., Z. You, et al. (2012). "Transport and straining of suspensions in porous media: Experimental and theoretical study." Thermal Science **16**(5): 1344-1348.

Aji, K., Z. You, et al. (2012). Study of particle straining effect on produced water management and injectivity enhancement. SPE Production and Operations Symposium 2012, Doha, Qatar.

Alexander, B., J. Peacock, et al. (2012). Application of evolutionary methods to 3D geoscience modelling. 14th International Conference on Genetic and Evolutionary Computation, GECCO'12, Philadelphia, PA.

Ali, M. S. M., C. J. Doolan, et al. (2012). "Low Reynolds number flow over a square cylinder with a detached flat plate." International Journal of Heat and Fluid Flow **36**: 133-141.

Alley, K. G., G. Poneti, et al. (2012). "A two-step valence tautomeric transition in a dinuclear cobalt complex." Inorganic Chemistry **51**(7): 3944-3946.

An, H. and B. Jin (2012). "Impact of fullerene particle interaction on biochemical activities in fermenting *Zymomonas mobilis*." Environmental Toxicology and Chemistry **31**(4): 712-716.

An, H. and B. Jin (2012). "Prospects of nanoparticle–DNA binding and its implications in medical biotechnology." Biotechnology Advances **30**(6): 1721-1732.

Anderson, J. R., J. L. Payne, et al. (2012). "High-pressure granulites at the dawn of the Proterozoic." Geology **40**(5): 431-434.

Asiabana, A. and J. Foden (2012). "Post-collisional transition from an extensional volcano-sedimentary basin to a continental arc in the Alborz Ranges, N-Iran." Lithos **148**(0): 98-111.

Atashbari, V. and M. Tingay (2012). Pore pressure prediction in a carbonate reservoir. SPE Oil and Gas India Conference and Exhibition 2012 - Further, Deeper, Tougher: The Quest Continues... Mumbai, India.

Atashbari, V. and M. Tingay (2012). Pore pressure prediction in carbonate reservoirs. SPE Latin American and Caribbean Petroleum Engineering Conference 2012, Mexico City, Mexico.

Avellaneda, A., C. A. Hollis, et al. (2012). "Fluorescent hexaaryl- and hexa-heteroaryl[3]-radialenes: Synthesis, structures, and properties." Beilstein Journal of Organic Chemistry **8**: 71-80.

Aw, M. S., J. Addai-Mensah, et al. (2012). "Magnetic-responsive delivery of drug-carriers using titania nanotube arrays." Journal of Materials Chemistry **22**(14): 6561-6563.

Aw, M. S., J. Addai-Mensah, et al. (2012). "Polymer Micelles for Delayed Release of Therapeutics from Drug-Releasing Surfaces with Nanotubular Structures." Macromolecular Bioscience **12**(8): 1048-1052.

Aw, M. S., K. A. Khalid, et al. (2012). "Characterization of drug-release kinetics in trabecular bone from titania nanotube implants." International Journal of Nanomedicine **7**: 4883-4892.

Aw, M. S., S. Simovic, et al. (2012). "Porous silica microshells from diatoms as biocarrier for drug delivery applications." Powder Technology **223**: 52-58.

Ba, L., J. Ning, et al. (2012). "The relationship between the diversity of arbuscular mycorrhizal fungi and grazing in a meadow steppe." Plant and Soil **352**(1-2): 143-156.

Badalyan, A., T. Carageorgos, et al. (2012). "Critical analysis of uncertainties during particle filtration." Review of Scientific Instruments **83**(9).

Bakhri, S., N. Ertugrul, et al. (2012). Negative sequence current compensation for stator shorted turn detection in induction motors. 38th Annual Conference on IEEE Industrial Electronics Society, Montreal, Canada.

Bakhri, S., N. Ertugrul, et al. (2012). Practical issues on negative sequence current monitoring for condition monitoring in induction motors. 2012 22nd Australasian Universities Power Engineering Conference: "Green Smart Grid Systems", Bali, Indonesia.

Balasuriya, S. and M. D. Finn (2012). "Energy constrained transport maximization across a fluid interface." Physical Review Letters **108**(24).

Bandeira, J., B. McGee, et al. (2012). "Sedimentological and provenance response to Cambrian closure of the Clymene ocean: The upper Alto Paraguai Group, Paraguay belt, Brazil." Gondwana Research **21**(2-3): 323-340.

Bannister, J. M., J. G. Conran, et al. (2012). "Lauraceae from rainforest surrounding an early Miocene maar lake, Otago, southern New Zealand." Review of Palaeobotany and Palynology **178**(0): 13-34.

Barrett, E., I. Abbasy, et al. (2012). "Determining gas rate distribution from temperature

and pressure profiles in gas well." *Thermal Science* **16**(5): 1339-1343.

Barrett, E., I. Abbasy, et al. (2012). Direct averaging estimates of separate zone production in gas wells based on pressure and temperature profiles. SPE Asia Pacific Oil and Gas Conference and Exhibition 2012: Providing a Bright Future, Perth, WA.

Barrett, E., I. Abbasy, et al. (2012). Improved determination of well rate from temperature and pressure distributions along the well. North Africa Technical Conference and Exhibition 2012: Managing Hydrocarbon Resources in a Changing Environment, Cairo, Egypt.

Barrett, E., I. Abbasy, et al. (2012). Treatment of temperature and pressure profiles along the wellbore to determine gas rate. SPE Production and Operations Symposium 2012, Doha, Qatar.

Bastami, T. R., M. H. Entezari, et al. (2012). "Role of polymeric surfactants on the growth of manganese ferrite nanoparticles." *Chemical Engineering Journal* **210**: 157-165.

Bazghaleh, M., S. Grainger, et al. (2012). Using frequency-weighted data fusion to improve the performance of a digital charge amplifier. IEEE International Conference on Robotics and Automation, St. Paul, MN.

Bean, N. G., M. M. O'Reilly, et al. (2012). "Second-order Markov reward models driven by QBD processes." *Performance Evaluation* **69**(9): 440-455.

Bedrikovetsky, P., A. Keshavarz, et al. (2012). Stimulation of natural cleats for gas production from coal beds by graded proppant injection. SPE Asia Pacific Oil and Gas Conference and Exhibition 2012: Providing a Bright Future, Perth, WA.

Bedrikovetsky, P., A. Vaz, et al. (2012). "Skin due to fines mobilization, migration, and straining during steady-state oil production." *Petroleum Science and Technology* **30**(15): 1539-1547.

Bedrikovetsky, P., Z. You, et al. (2012). Formation damage in geothermal wells (Salamander field case). SPE Asia Pacific Oil and Gas Conference and Exhibition 2012: Providing a Bright Future, Perth, WA.

Bedrikovetsky, P., A. Zeinijahromi, et al. (2012). "Particle Detachment Under Velocity Alternation During Suspension Transport in Porous Media." *Transport in Porous Media* **91**(1): 173-197.

Berto, F., P. Lazzarin, et al. (2012). "Induced out-of-plane mode at the tip of blunt lateral notches and holes under in-plane shear loading." *Fatigue and Fracture of Engineering Materials and Structures* **35**(6): 538-555.

Biggs, M. J. and P. J. Ashman (2012). "Chemeca 2010 special issue." Chemical Engineering Research and Design **90**(1): 1-2.

Binder, B. J. and M. G. Blyth (2012). "Electrified free-surface flow of an inviscid liquid past topography." Physics of Fluids **24**(10).

Binder, B. J., K. A. Landman, et al. (2012). "Spatial Analysis of Multi-species Exclusion Processes: Application to Neural Crest Cell Migration in the Embryonic Gut." Bulletin of Mathematical Biology **74**(2): 474-490.

Birzer, C. H. (2012). "Correlative analysis of organised structures in turbulent jets." Experiments in Fluids **53**(6): 1681-1691.

Birzer, C. H., P. A. M. Kalt, et al. (2012). "The influences of particle mass loading on mean and instantaneous particle distributions in precessing jet flows." International Journal of Multiphase Flow **41**(0): 13-22.

Bloch, W. M. and C. J. Sumby (2012). "Guest-induced crystal-to-crystal expansion and contraction of a 3-D porous coordination polymer." Chemical Communications **48**(19): 2534-2536.

Borg, S., W. Liu, et al. (2012). "An XAS study of molybdenum speciation in hydrothermal chloride solutions from 25-385°C and 600 bar." Geochimica et Cosmochimica Acta **92**: 292-307.

Bortolan Neto, L. and A. Kotousov (2012). "Residual opening of hydraulically stimulated fractures filled with granular particles." Journal of Petroleum Science and Engineering **100**(0): 24-29.

Bourget, J., R. B. Ainsworth, et al. (2012). "Tectonic evolution of the northern Bonaparte Basin: impact on continental shelf architecture and sediment distribution during the Pleistocene." Australian Journal of Earth Sciences **59**(6): 877-897.

Bowie, J. H., M. I. Bruce, et al. (2012). "Facile decarboxylation of propionic acid on a ruthenium center and related chemistry." Organometallics **31**(15): 5262-5273.

Boyd, K., H. Ebendorff-Heidepriem, et al. (2012). "Surface tension and viscosity measurement of optical glasses using a scanning CO₂ laser." Optical Materials Express **2**(8): 1101-1110.

Brautigan, D. J., P. Rengasamy, et al. (2012). "Aluminium speciation and phytotoxicity in alkaline soils." Plant and Soil **360**(1-2): 187-196.

Bristow, T. F., M. J. Kennedy, et al. (2012). "The influence of authigenic clay formation on the mineralogy and stable isotopic record of lacustrine carbonates." Geochimica et Cosmochimica Acta **90**(0): 64-82.

Brugger, J., B. E. Etschmann, et al. (2012). "XAS evidence for the stability of polytellurides in hydrothermal fluids up to 599 °c, 800 bar." American Mineralogist **97**(8-9): 1519-1522.

Brugger, J., N. Meisser, et al. (2012). "Leucostaurite, Pb₂[B₅O₉]Cl·0.5H₂O, from the Atacama Desert: The first Pb-dominant member of the hilgardite group, and micro-determination of boron in minerals by PIGE." American Mineralogist **97**(7): 1206-1212.

Cabral, A. R., F. Reith, et al. (2012). "Anatase nanoparticles on supergene platinum-palladium aggregates from Brazil: Titanium mobility in natural waters." Chemical Geology **334**: 182-188.

Cai, G., J. Ting, et al. (2012). Modeling and optimization of air distribution systems for commercial aircraft cabins using CFD techniques. 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, Nashville, TN.

Chalk, P., N. Gooding, et al. (2012). "Pore size distribution from challenge coreflood testing by colloidal flow." Chemical Engineering Research and Design **90**(1): 63-77.

Chan, Q. N., P. R. Medwell, et al. (2012). "New seeding methodology for gas concentration measurements." Applied Spectroscopy **66**(7): 803-809.

Chang, D. and A. Kotousov (2012). "A strip yield model for two collinear cracks." Engineering Fracture Mechanics **90**(0): 121-128.

Chang, D. and A. Kotousov (2012). "A strip yield model for two collinear cracks in plates of arbitrary thickness." International Journal of Fracture **176**(1): 39-47.

Chen, L. (2012). Distributed hybrid vibration absorbers for shock and forced vibrations. Applied Mechanics and Materials. **166-169**: 1709-1712.

Chen, L., W. L. Soong, et al. (2012). Comparison of AC/DC converters and the principles of a new control strategy in small-scale wind turbine systems. 2012 22nd Australasian Universities Power Engineering Conference: "Green Smart Grid Systems", Bali, Indonesia.

Chipfunhu, D., M. Zanin, et al. (2012). "Flotation behaviour of fine particles with respect to contact angle." Chemical Engineering Research and Design **90**(1): 26-32.

Chiu, M., T. W. Kee, et al. (2012). "Coarse-grained simulations of the effects of chain length, solvent quality, and chemical defects on the solution-phase morphology of MEH-PPV conjugated polymers." Australian Journal of Chemistry **65**(5): 463-471.

Chong, M. N. and B. Jin (2012). "Photocatalytic treatment of high concentration

carbamazepine in synthetic hospital wastewater." Journal of Hazardous Materials **199–200**(0): 135-142.

Chong, M. N. and B. Jin (2012). "Sol-gel synthesis of inorganic mesostructured composite photocatalyst for Water purification: An insight into the synthesis fundamentals, reaction, and binding mechanisms." Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry **42**(1): 68-75.

Ciobanu, C. L., N. J. Cook, et al. (2012). "Gold-telluride nanoparticles revealed in arsenic-free pyrite." American Mineralogist **97**(8-9): 1515-1518.

Codrington, J., A. Kotousov, et al. (2012). "Effect of a variation in material properties on the crack tip opening displacement." Fatigue and Fracture of Engineering Materials and Structures **35**(10): 943-952.

Collins, A. S. (2012). "International association for Gondwana Research Annual Convention and 9th international symposium on Gondwana to Asia—Adelaide 2012." Gondwana Research **21**(1): 307.

Collins, A. S., P. D. Kinny, et al. (2012). "Depositional age, provenance and metamorphic age of metasedimentary rocks from southern Madagascar." Gondwana Research **21**(2–3): 353-361.

Cook, N. J. (2012). "Editorial." Ore Geology Reviews **48**(0): 1.

Cook, N. J., C. L. Ciobanu, et al. (2012). "Determination of the oxidation state of Cu in substituted Cu-In-Fe-bearing sphalerite via μ -XANES spectroscopy." American Mineralogist **97**(2-3): 476-479.

Cornelis, G., C. Doolittle, et al. (2012). "Retention and dissolution of engineered silver nanoparticles in natural soils." Soil Science Society of America Journal **76**(3): 891-902.

Cornelis, G., B. Etschmann, et al. (2012). "Mechanisms and modelling of antimonate leaching in hydrated cement paste suspensions." Cement and Concrete Research **42**(10): 1307-1316.

Cox, G. M., C. J. Lewis, et al. (2012). "Ediacaran terrane accretion within the Arabian–Nubian Shield." Gondwana Research **21**(2–3): 341-352.

Crees, R. S., B. Moubaraki, et al. (2012). "Synthesis and coordination chemistry of 2-(Di-2-pyridylamino)pyrimidine; Structural aspects of spin crossover in an Fe II complex." Australian Journal of Chemistry **65**(7): 842-850.

Dart, R. C., K. M. Barovich, et al. (2012). "Sr-isotopes as a tracer of Ca sources and mobility in profiles hosting regolith carbonates from Southern Australia." Australian Journal of Earth Sciences **59**(3): 373-382.

Das, D. P., D. J. Moreau, et al. (2012). "Adjoint nonlinear active noise control algorithm for virtual microphone." Mechanical Systems and Signal Processing **27**(1): 743-754.

Das, D. P., D. J. Moreau, et al. (2012). "A nonlinear active noise control algorithm for virtual microphones controlling chaotic noise." Journal of the Acoustical Society of America **132**(2): 779-788.

Dennis, Z. R., S. Thiel, et al. (2012). "Lower crust and upper mantle electrical anisotropy in southeastern Australia." Exploration Geophysics **43**(4): 228-241.

Dhont, D., B. Monod, et al. (2012). "3D geological modeling of the Trujillo block: Insights for crustal escape models of the Venezuelan Andes." Journal of South American Earth Sciences **39**: 245-251.

Diacomanolis, V., J. C. Ng, et al. (2012). Arsenic speciation of lead-zinc mine wastes using X-ray absorption spectroscopy. 4th International Congress on Arsenic in the Environment, Cairns, QLD.

Doan, Q. C., N. R. Moheimani, et al. (2012). "Microalgal biomass for bioethanol fermentation: Implications for hypersaline systems with an industrial focus." Biomass and Bioenergy **46**(0): 79-88.

Doolan, C. J., V. Choley, et al. (2012). "Vortex shedding during the interaction of a turbulent wake with a cylinder." Journal of Fluids and Structures **31**(0): 141-146.

Doolan, C. J., D. J. Moreau, et al. (2012). "Wind turbine noise mechanisms and some concepts for its control." Acoustics Australia **40**(1): 7-13.

Doolan, C. J., M. R. Tetlow, et al. (2012). Vortex shedding and tonal noise from a sharp bevelled trailing edge. 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, Nashville, TN.

Doonechaly, N. G., S. S. Rahman, et al. (2012). An innovative stimulation technology for permeability enhancement in enhanced geothermal system - Fully coupled thermo-poroelastic numerical approach. Geothermal Resources Council Annual Meeting 2012 - Geothermal: Reliable, Renewable, Global, Reno, NV.

Du, B., E. Hu, et al. (2012). "Performance analysis of water cooled concentrated photovoltaic (CPV) system." Renewable and Sustainable Energy Reviews **16**(9): 6732-6736.

Duong, T. T. H., P. A. Lay, et al. (2012). "Synchrotron radiation induced X-ray emission studies of the antioxidant mechanism of the organoselenium drug ebselen." Journal of Biological Inorganic Chemistry **17**(4): 589-598.

Emmerson, L. M., J. M. Facelli, et al. (2012). "Changes in seed dispersal processes and the potential for between-patch connectivity for an arid land daisy." *Ecology* **93**(3): 544-553.

Evans, J. D., C. A. Hollis, et al. (2012). "Anion- π interactions of hexaaryl[3]radialenes." *Journal of Physical Chemistry A* **116**(30): 8001-8007.

Evans, P. A., J. K. Fridriksson, et al. (2012). "Swift follow-up observations of candidate gravitational-wave transient events." *Astrophysical Journal, Supplement Series* **203**(2).

Fahy, E. and M. Arjomandi (2012). Performance evaluation of thermal soaring unmanned aerial vehicles for coastal surveillance in South Australia. 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, Nashville, TN.

Fairbrother, L., J. Brugger, et al. (2012). "Supergene gold transformation: Biogenic secondary and nano-particulate gold from arid Australia." *Chemical Geology* **320-321**: 17-31.

Fong, Y. Y., J. R. Gascooke, et al. (2012). "Influence of surfactant concentration on laser-based gold nanoparticle formation and stability." *Australian Journal of Chemistry* **65**(2): 97-104.

Forbes, C. J., D. Giles, et al. (2012). "Cooling and exhumation history of the northeastern Gawler Craton, South Australia." *Precambrian Research* **200-203**: 209-238.

Ganija, M., D. J. Ottaway, et al. (2012). Cryogenic, conduction cooled, end pumped, zigzag slab laser, suitable for power scaling. 2012 Conference on Lasers and Electro-Optics, San Jose, CA.

Gibson, B. A., M. Arjomandi, et al. (2012). "The response of a flat plate boundary layer to an orthogonally arranged dielectric barrier discharge actuator." *Journal of Physics D: Applied Physics* **45**(2).

Grano, S. and D. Xu (2012). "Letter to the Editor, Reply to comments by Kowalcuk and Drzymala on the paper ‘‘Detachment of coarse particles from oscillating bubbles — The effect of particle contact angle and medium viscosity’’ by D. Xu, I. Ametov and S.R. Grano (Int.). Miner. Process. 101, 50–57, doi: 10.1016/j/minpro.2011.07.03)." *International Journal of Mineral Processing* **104–105**(0): 82-83.

Greenhalgh, S., X. Liu, et al. (2012). "Velocity and attenuation dispersion relations for the effective Biot model: Total-field formulation." *Near Surface Geophysics* **10**(3): 197-206.

Greig, A., M. Cheong, et al. (2012). Investigation into the effect of electrode angle on

force production of a Dielectric Barrier Discharge plasma actuator. 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, Nashville, TN.

Grice, J. D. and A. Pring (2012). "Veatchite: Structural relationships of the three polytypes." American Mineralogist **97**(4): 489-495.

Grocock, D., B. Menzies, et al. (2012). Extending submarine equipment beyond its service life. International Maritime Conference 2012, Pacific 2012, Darling Harbour, NSW.

Gulati, K., M. S. Aw, et al. (2012). "Local drug delivery to the bone by drug-releasing implants: Perspectives of nano-engineered titania nanotube arrays." Therapeutic Delivery **3**(7): 857-873.

Gulati, K., S. Ramakrishnan, et al. (2012). "Biocompatible polymer coating of titania nanotube arrays for improved drug elution and osteoblast adhesion." Acta Biomaterialia **8**(1): 449-456.

Hackett-Jones, E. J., K. J. Davies, et al. (2012). "Generalized index for spatial data sets as a measure of complete spatial randomness." Physical Review E - Statistical, Nonlinear, and Soft Matter Physics **85**(6).

Halinen, A., C. J. Medlin, et al. (2012). "Time and process in business network research." Industrial Marketing Management **41**(2): 215-223.

Hansen, K. and C. Doolan (2012). The effect of sinusoidal airfoil geometry on the reduction of flow induced tonal noise. 19th International Congress on Sound and Vibration 2012, Vilnius, Lithuania.

Hansen, K., R. Kelso, et al. (2012). "Reduction of flow induced airfoil tonal noise using leading edge sinusoidal modifications." Acoustics Australia **40**(3): 172-177.

Hartono, S. B., W. Gu, et al. (2012). "Poly-L-lysine functionalized large pore cubic mesostructured silica nanoparticles as biocompatible carriers for gene delivery." ACS Nano **6**(3): 2104-2117.

Hasan, B. O., G. J. Nathan, et al. (2012). "The effects of temperature and hydrodynamics on the crystallization fouling under cross flow conditions." Applied Thermal Engineering **36**(1): 210-218.

Hasan, B. O., G. J. Nathan, et al. (2012). "The use of turbulence generators to mitigate crystallization fouling under cross flow conditions." Desalination **288**: 108-117.

Hashim, M. S. M., T. F. Lu, et al. (2012). Dynamic obstacle avoidance approach for car-like robots in dynamic environments. 2012 IEEE Symposium on Computer

Applications and Industrial Electronics, Kota Kinabalu, Malaysia.

Havila, V. and C. J. Medlin (2012). "Ending-competence in business closure." Industrial Marketing Management **41**(3): 413-420.

Henecka, W., N. Bean, et al. (2012). Conversion of real-numbered privacy-preserving problems into the integer domain. Lecture Notes in Computer Science **7618 LNCS**: 131-141.

Howard, C. Q. (2012). "A sliding Goertzel algorithm for adaptive passive neutralizers." Journal of Sound and Vibration **331**(9): 1985-1993.

Huang, D. M. and P. Harrowell (2012). "Molecular shape and the energetics of chemisorption: From simple to complex energy landscapes." Physical Review E - Statistical, Nonlinear, and Soft Matter Physics **86**(1).

Huang, H., L. Chen, et al. (2012). "A New Zone Temperature Predictive Modeling for Energy Saving in Buildings." Procedia Engineering **49**(0): 142-151.

Hussain, F., Y. Cinar, et al. (2012). "A Semi-Analytical Model for Two Phase Immiscible Flow in Porous Media Honouring Capillary Pressure." Transport in Porous Media **92**(1): 187-212.

Ihme, M., J. Zhang, et al. (2012). "Large-eddy simulation of a jet-in-hot-coflow burner operating in the oxygen-diluted combustion regime." Flow, Turbulence and Combustion **89**(3): 449-464.

Isterling, W. M., B. B. Dally, et al. (2012). "Beam displacement as a function of temperature and turbulence length scale at two different laser radiation wavelengths." Applied Optics **51**(1): 55-63.

Jamshidi Badr, M., F. Masoudi, et al. (2012). "Mineralogical evidence for regional metamorphism overprinted by contact metamorphism." Acta Geologica Sinica **86**(1): 48-64.

Jassogne, L., G. Hettiarachchi, et al. (2012). "Characterising the chemistry of micropores in a sodic soil with strong texture-contrast using synchrotron X-ray techniques and LA-ICP-MS." Soil Research **50**(5): 424-435.

Jenkins, C. R., P. J. Cook, et al. (2012). "Safe storage and effective monitoring of CO₂ in depleted gas fields." Proceedings of the National Academy of Sciences of the United States of America **109**(2): E35-E41.

Jin, D., Z. Bai, et al. (2012). "Biodegradation of di-n-butyl phthalate by an isolated Gordonia sp. strain QH-11: Genetic identification and degradation kinetics." Journal of Hazardous Materials **221-222**(0): 80-85.

Jin, M. J., T. Ma, et al. (2012). "Three-dimensional networks of ITO/CdS coaxial nanofibers for photovoltaic applications." Journal of Materials Chemistry **22**(26): 13057-13063.

Kakar, M. I., A. S. Collins, et al. (2012). "U-Pb zircon crystallization age of the Muslim Bagh ophiolite: Enigmatic remains of an extensive pre-Himalayan arc." Geology **40**(12): 1099-1102.

Kaniyal, A. A., G. J. Nathan, et al. (2012). "The potential role of data-centres in enabling investment in geothermal energy." Applied Energy **98**(0): 458-466.

Kaniyal, A. A., P. J. Van Eyk, et al. (2012). Polygeneration of Fischer-Tropsch fuels and electricity by hybridised solar gasification of coal - A pseudo-dynamic process model. 2012 AIChE Annual Meeting, Pittsburgh, PA.

Kennedy, M. J. and N. Christie-Blick (2012). "Condensation origin for Neoproterozoic cap carbonates during deglaciation." Geology **40**(4).

Kennedy, M. J. and M. L. Droser (2012). "Early Cambrian metazoans in fluvial environments, evidence of the non-marine Cambrian radiation: Reply." Geology **40**(6): e271-e272.

Keshavarz, A., H. Vatanparast, et al. (2012). "An experimental investigation of the effect of pressure gradient on gas-oil relative permeability in iranian carbonate rocks." Petroleum Science and Technology **30**(14): 1508-1522.

Keshavarz, A., H. Vatanparast, et al. (2012). "An experimental investigation of optimum capillary number on vertical immiscible gas injection in Iranian carbonate and sandstone rocks." Petroleum Science and Technology **30**(13): 1379-1391.

Khanna, A., A. Kotousov, et al. (2012). "Conductivity of narrow fractures filled with a proppant monolayer." Journal of Petroleum Science and Engineering **100**(0): 9-13.

King, R., G. Backé, et al. (2012). Stress deflections around salt diapirs in the gulf of mexico. Geological Society Special Publication. **367**: 141-153.

Kotousov, A., F. Berto, et al. (2012). "Three dimensional finite element mixed fracture mode under anti-plane loading of a crack." Theoretical and Applied Fracture Mechanics **62**(0): 26-33.

Kueh, K. H., S. F. McKay, et al. (2012). "Response of selected South Australian native plant species to Phytophthora cinnamomi." Plant Pathology **61**(6): 1165-1178.

Kumeria, T., M. D. Kurkuri, et al. (2012). "Label-free reflectometric interference microchip biosensor based on nanoporous alumina for detection of circulating tumour

cells." Biosensors and Bioelectronics **35**(1): 167-173.

Kumral, M. and P. A. Dowd (2012). "Singular value decomposition as an equation solver in co-kriging matrices." Journal of the Southern African Institute of Mining and Metallurgy **112**(10): 853-858.

Lambeck, A., K. Barovich, et al. (2012). "Proterozoic turbiditic depositional system (Tanami Group) in the Tanami region, northern Australia, and implications for gold mineralisation." Australian Journal of Earth Sciences **59**(3): 383-397.

Lambeck, A., K. Barovich, et al. (2012). "An abrupt change in Nd isotopic composition in Australian basins at 1655 Ma: Implications for the tectonic evolution of Australia and its place in NUNA." Precambrian Research **208–211**(0): 213-221.

Landman, K. A., B. J. Binder, et al. (2012). Modeling development and disease in our second brain. Lecture Notes in Computer Science. **7495 LNCS**: 405-414.

Lee, A. K., D. M. Lewis, et al. (2012). "Disruption of microalgal cells for the extraction of lipids for biofuels: Processes and specific energy requirements." Biomass and Bioenergy **46**(0): 89-101.

Lee, D. E., J. G. Conran, et al. (2012). "New Zealand Eocene, Oligocene and Miocene Macrofossil and Pollen Records and Modern Plant Distributions in the Southern Hemisphere." Botanical Review **78**(3): 235-260.

Lee, S. L. A., A. Z. Kouzani, et al. (2012). "Automated detection of lung nodules in computed tomography images: A review." Machine Vision and Applications **23**(1): 151-163.

Leung, M. H. M., P. Mohan, et al. (2012). "Reduction of copper(ii) to copper(i) in the copper-curcumin complex induces decomposition of curcumin." Australian Journal of Chemistry **65**(5): 490-495.

Leung, M. H. M., D. T. Pham, et al. (2012). "Femtosecond transient absorption spectroscopy of copper(ii)-curcumin complexes." Physical Chemistry Chemical Physics **14**(39): 13580-13587.

Lewis, R., J. A. van Leeuwen, et al. (2012). "Assessment of coagulated and non-coagulated ASB performance used to treat *Pinus radiata* sulfite pulp and paper mill effluent by resin fractionation and HPSEC techniques." Chemical Engineering Journal **213**(0): 109-117.

Li, F., M. Usman Khan, et al. (2012). Is there a smarter way to use 100 billion transistors? 46th Asilomar Conference on Signals, Systems and Computer, Pacific Grove, CA.

Li, J., R. Lu, et al. (2012). "Porous graphitized carbon for adsorptive removal of benzene and the electrothermal regeneration." Environmental Science and Technology **46**(22): 12648-12654.

Li, Z., Z. Bai, et al. (2012). "Purification and characterization of alkaline pectin lyase from a newly isolated *Bacillus Clausii* and its application in elicitation of plant disease resistance." Applied Biochemistry and Biotechnology **167**(8): 2241-2256.

Liang, C., M. B. Jaksa, et al. (2012). "Gis-based back analysis of riverbank instability in the lower river murray." Australian Geomechanics Journal **47**(4): 59-65.

Liang, J., Y. Jiao, et al. (2012). "Sulfur and nitrogen dual-doped mesoporous graphene electrocatalyst for oxygen reduction with synergistically enhanced performance." Angewandte Chemie - International Edition **51**(46): 11496-11500.

Liang, J., Y. Zheng, et al. (2012). "Facile oxygen reduction on a three-dimensionally ordered macroporous graphitic C 3N 4/carbon composite electrocatalyst." Angewandte Chemie - International Edition **51**(16): 3892-3896.

Limpornpipat, O., A. Laird, et al. (2012). Overpressures in the Northern Malay Basin: Part 2 - Implications for pore pressure prediction. International Petroleum Technology Conference 2012, Bangkok, Thailand.

Lincoln, S. F. (2012). "Options for change in the australian energy profile." Ambio **41**(8): 841-850.

Ling, T., J. G. Song, et al. (2012). "Comparison of ZnO and TiO₂ nanowires for photoanode of dye-sensitized solar cells." Journal of Alloys and Compounds **546**: 307-313.

Liu, H., X. Du, et al. (2012). "Highly ordered mesoporous Cr₂O₃ materials with enhanced performance for gas sensors and lithium ion batteries." Chemical Communications **48**(6): 865-867.

Liu, H., J. J. Li, et al. (2012). "Interface-dominated galvanic replacement reactions in the Zn/Cu²⁺ system." Nanotechnology **23**(36).

Liu, H., D. Su, et al. (2012). "An ordered mesoporous WS₂ anode material with superior electrochemical performance for lithium ion batteries." Journal of Materials Chemistry **22**(34): 17437-17440.

Liu, H., D. Su, et al. (2012). "Highly ordered mesoporous MOS₂ with expanded spacing of the (002) crystal plane for ultrafast lithium ion storage." Advanced Energy Materials **2**(8): 970-975.

Liu, J., B. Wang, et al. (2012). "Magnetic silica spheres with large nanopores for nucleic

acid adsorption and cellular uptake." Biomaterials **33**(3): 970-978.

Liu, J., H. Q. Yang, et al. (2012). "Yolk-shell hybrid materials with a periodic mesoporous organosilica shell: Ideal nanoreactors for selective alcohol oxidation." Advanced Functional Materials **22**(3): 591-599.

Liu, W., S. Borg, et al. (2012). "An XAS study of speciation and thermodynamic properties of aqueous zinc bromide complexes at 25-150°C." Chemical Geology **298-299**: 57-69.

Longhitano, S. G., D. Mellere, et al. (2012). "Preface." Sedimentary Geology **279**: 1.

Longhitano, S. G., D. Mellere, et al. (2012). "Tidal depositional systems in the rock record: A review and new insights." Sedimentary Geology **279**(0): 2-22.

Losic, D. (2012). "Author's response." International Journal of Nanomedicine **7**: 4067.

Lotfolah Hamedani, M., I. R. Plimer, et al. (2012). "Orebody Modelling for Exploration: The Western Mineralisation, Broken Hill, NSW." Natural Resources Research **21**(3): 325-345.

Lu, V. N., P. G. Quester, et al. (2012). "Determinants of export success in professional business services: A qualitative study." Service Industries Journal **32**(10): 1637-1652.

Lustri, C. J., S. W. McCue, et al. (2012). "Free surface flow past topography: A beyond-all-orders approach." European Journal of Applied Mathematics **23**(4): 441-467.

Macdonald, J., G. Backé, et al. (2012). Geomechanical modelling of fault reactivation in the ceduna sub-basin, bight basin, australia. Geological Society Special Publication. **367**: 71-89.

Matthews, M. T. and Y. M. Stokes (2012). "Lubrication analysis and numerical simulation of the viscous micropump with slip." International Journal of Heat and Fluid Flow **33**(1): 22-34.

Mavi, M. S., P. Marschner, et al. (2012). "Salinity and sodicity affect soil respiration and dissolved organic matter dynamics differentially in soils varying in texture." Soil Biology and Biochemistry **45**: 8-13.

Mavi, M. S., J. Sanderman, et al. (2012). "Sorption of dissolved organic matter in salt-affected soils: Effect of salinity, sodicity and texture." Science of the Total Environment **435-436**: 337-344.

McGee, B., A. S. Collins, et al. (2012). "G'day Gondwana — the final accretion of a supercontinent: U-Pb ages from the post-orogenic São Vicente Granite, northern Paraguay Belt, Brazil." Gondwana Research **21**(2-3): 316-322.

McGee, B., G. P. Halverson, et al. (2012). "Cryogenian rift-related magmatism and sedimentation: South-western Congo Craton, Namibia." Journal of African Earth Sciences **76**(0): 34-49.

Medlin, C. J. (2012). "Peter Drucker's ontology: Understanding business relationships and networks." Journal of Business and Industrial Marketing **27**(7): 513-520.

Medwell, P. R., Q. N. Chan, et al. (2012). "Flow seeding with elemental metal species via an optical method." Applied Physics B: Lasers and Optics: 1-4.

Medwell, P. R. and B. B. Dally (2012). "Effect of fuel composition on jet flames in a heated and diluted oxidant stream." Combustion and Flame **159**(10): 3138-3145.

Medwell, P. R. and B. B. Dally (2012). "Experimental observation of lifted flames in a heated and diluted coflow." Energy and Fuels **26**(9): 5519-5527.

Medwell, P. R., P. N. Grimshaw, et al. (2012). "Developing sports engineering education in Australia." Procedia Engineering **34**(0): 260-265.

Meisser, N., J. Brugger, et al. (2012). "Description and crystal structure of maghrebite, MgAl₂(AsO₄)₂(OH)₂·8H₂O, from Aghbar, Anti-Atlas, Morocco: First arsenate in the laueite mineral group." European Journal of Mineralogy **24**(4): 717-726.

Mi, J., F. Wang, et al. (2012). "Modified vitiation in a moderate or intense low-oxygen dilution (MILD) combustion furnace." Energy and Fuels **26**(1): 265-277.

Mirsepahi, A., M. Mohammadzaheri, et al. (2012). "Erratum to "An artificial intelligence approach to inverse heat transfer modeling of an irradiative dryer": [Int. Comm. Heat Mass Trans. 39 (2012) 40-45]." International Communications in Heat and Mass Transfer **39**(6): 885.

Mirsephai, A., M. Mohammadzaheri, et al. (2012). "An artificial intelligence approach to inverse heat transfer modeling of an irradiative dryer." International Communications in Heat and Mass Transfer **39**(1): 40-45.

Mohais, R., C. Xu, et al. (2012). "Permeability correction factor for fractures with permeable walls." Geophysical Research Letters **39**(3).

Mohammadzaheri, M., L. Chen, et al. (2012). "A critical review of the most popular types of neuro control." Asian Journal of Control **14**(1): 1-11.

Mohiuddin, Z., M. Haghghi, et al. (2012). Pore scale visualization and simulation of miscible displacement process under gravity domination. International Petroleum Technology Conference 2012, Bangkok, Thailand.

Moreau, D. J., L. A. Brooks, et al. (2012). "The effect of boundary layer type on trailing edge noise from sharp-edged flat plates at low-to-moderate Reynolds number." Journal of Sound and Vibration **331**(17): 3976-3988.

Muganda, S., M. Zanin, et al. (2012). "Benchmarking the flotation performance of ores." Minerals Engineering **26**(1): 70-79.

Mullett, M., P. Pendleton, et al. (2012). "Removal of elemental mercury from Bayer stack gases using sulfur-impregnated activated carbons." Chemical Engineering Journal **211–212**(0): 133-142.

Munro, K. L., C. T. Dillon, et al. (2012). Using X-ray absorption spectroscopy and microprobe synchrotron radiation-X-ray fluorescence imaging for understanding the mode of action of arsenic anti-leukaemia agents. 4th International Congress on Arsenic in the Environment, Cairns, QLD.

Nathan, G. J., P. A. M. Kalt, et al. (2012). "Recent advances in the measurement of strongly radiating, turbulent reacting flows." Progress in Energy and Combustion Science **38**(1): 41-61.

Ng, L. W., C. Fung, et al. (2012). Reactive wetting in corrosion: A mild steel example. Annual Conference of the Australasian Corrosion Association 2012, Melbourne, VIC.

Ngothai, Y. and M. C. Davis (2012). "Implementation and analysis of a Chemical Engineering Fundamentals Concept Inventory (CEFCI)." Education for Chemical Engineers **7**(1): e32-e40.

Ngothai, Y., D. Lane, et al. (2012). Effect of geothermal brine properties on silica scaling in enhanced geothermal systems. Geothermal Resources Council Annual Meeting 2012 - Geothermal: Reliable, Renewable, Global, Reno, NV.

Nguyen, P. T., A. Zeinijahromi, et al. (2012). Taking advantage of fines migration formation damage for enhanced gas recovery. SPE International Symposium and Exhibition on Formation Damage Control 2012, Lafayette, LA.

Nishimura, A., G. Mitsui, et al. (2012). "CO₂ reforming characteristics under visible light response of Cr- or Ag-doped TiO₂ prepared by sol-gel and dip-coating process." International Journal of Photoenergy **2012**.

Nishimura, A., K. Shibuya, et al. (2012). "Dominant factor and mechanism of coupling phenomena in single cell of polymer electrolyte fuel cell." Applied Energy **90**(1): 73-79.

Noller, B. N., V. Diacomanolis, et al. (2012). Arsenic from mining old and new: Legacies and challenges. 4th International Congress on Arsenic in the Environment, Cairns, QLD.

Oak, M. and A. V. Swamy (2012). "Myopia or strategic behavior? Indian regimes and

the East India Company in late eighteenth century India." Explorations in Economic History **49**(3): 352-366.

Orandi, S., D. M. Lewis, et al. (2012). "Biofilm establishment and heavy metal removal capacity of an indigenous mining algal-microbial consortium in a photo-rotating biological contactor." Journal of Industrial Microbiology and Biotechnology **39**(9): 1321-1331.

Osborne, O. D., A. Pring, et al. (2012). "Comparison of the relative comparator and k0 neutron activation analysis techniques for the determination of trace-element concentrations in pyrite." Mineralogical Magazine **76**(5): 1229-1245.

Pahl, S. L., D. M. Lewis, et al. (2012). "Heterotrophic growth and nutritional aspects of the diatom *Cyclotella cryptica* (Bacillariophyceae): Effect of nitrogen source and concentration." Journal of Applied Phycology **24**(2): 301-307.

Pardo-Igúzquiza, E., P. A. Dowd, et al. (2012). "Stochastic simulation of karst conduit networks." Advances in Water Resources **35**(0): 141-150.

Pardo-Igúzquiza, E., J. J. Durán-Valsero, et al. (2012). "Estimation of spatio-temporal recharge of aquifers in mountainous karst terrains: Application to Sierra de las Nieves (Spain)." Journal of Hydrology **470-471**: 124-137.

Parker, L. J., D. B. Ascher, et al. (2012). "Structural approaches to probing metal interaction with proteins." Journal of Inorganic Biochemistry **115**(0): 138-147.

Pathmanathan, M., W. L. Soong, et al. (2012). "Maximum-torque-per-ampere control of phase advance modulation of an SPM wind generator." IEEE Transactions on Industry Applications **48**(5): 1443-1451.

Peacock, J. R., S. Thiel, et al. (2012). "Magnetotelluric monitoring of a fluid injection: Example from an enhanced geothermal system." Geophysical Research Letters **39**(17).

Pegorin, F., A. Kotousov, et al. (2012). "Strain energy density approach for failure evaluation of occlusal loaded ceramic tooth crowns." Theoretical and Applied Fracture Mechanics **58**(1): 44-50.

Plášil, J., K. Fejfarová, et al. (2012). "Crystal structure of pseudojohannite, with a revised formula, Cu 3(OH) 2[(UO 2) 4O 4(SO 4) 2](H 2O) 12." American Mineralogist **97**(10): 1796-1803.

Plavsa, D., A. S. Collins, et al. (2012). "Delineating crustal domains in Peninsular India: Age and chemistry of orthopyroxene-bearing felsic gneisses in the Madurai Block." Precambrian Research **198-199**(0): 77-93.

Popat, A., J. Liu, et al. (2012). "Adsorption and release of biocides with mesoporous

silica nanoparticles." Nanoscale **4**(3): 970-975.

Popat, A., J. Liu, et al. (2012). "A pH-responsive drug delivery system based on chitosan coated mesoporous silica nanoparticles." Journal of Materials Chemistry **22**(22): 11173-11178.

Popat, A., B. P. Ross, et al. (2012). "Enzyme-responsive controlled release of covalently bound prodrug from functional mesoporous silica nanospheres." Angewandte Chemie - International Edition **51**(50): 12486-12489.

Popelka-Filcoff, R. S., C. E. Lenehan, et al. (2012). "Evaluation of relative comparator and k O-NAA for characterization of Aboriginal Australian ochre." Journal of Radioanalytical and Nuclear Chemistry **291**(1): 19-24.

Premarathna, L., M. J. McLaughlin, et al. (2012). "Selenate-enriched urea granules are a highly effective fertilizer for selenium biofortification of paddy rice grain." Journal of Agricultural and Food Chemistry **60**(23): 6037-6044.

Priest, S. (2012). "Three-dimensional failure criteria based on the hoek-brown criterion." Rock Mechanics and Rock Engineering **45**(6): 989-993.

Prime, Z., C. Doolan, et al. (2012). Longitudinal flight dynamics modelling and control of scramspace I. 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, Nashville, TN.

Pring, A. (2012). "Dallas symposium." Mineralogical Record **43**(3): 391-392.

Pring, A. (2012). "Mawson and the radium and uranium mineralisation at Mount Painter, Northern Flinders Ranges, South Australia." AusIMM Bulletin **1**(6): 86-89.

Qi, G. Q., G. J. Nathan, et al. (2012). "PTV measurement of drag coefficient of fibrous particles with large aspect ratio." Powder Technology **229**(0): 261-269.

Qin, J., E. Hu, et al. (2012). A modified thermodynamic model to estimate the performance of geothermal aided power generation plant. Advanced Materials Research. **347-353**: 2875-2878.

Raimondo, T., C. Clark, et al. (2012). "High-resolution geochemical record of fluid-rock interaction in a mid-crustal shear zone: A comparative study of major element and oxygen isotope transport in garnet." Journal of Metamorphic Geology **30**(3): 255-280.

Ramar, A., P. V. Grundler, et al. (2012). "Effect of Pt injection rate on corrosion potential and Pt distribution on stainless steel under simulated boiling water reactor conditions." Corrosion Engineering Science and Technology **47**(7): 489-497.

Rankine, D., A. Avellaneda, et al. (2012). "Control of framework interpenetration for in

situ modified hydroxyl functionalised IRMOFs." Chemical Communications **48**(83): 10328-10330.

Reith, F., J. Brugger, et al. (2012). "Influence of geogenic factors on microbial communities in metallogenic Australian soils." ISME Journal **6**(11): 2107-2118.

Reith, F., L. Stewart, et al. (2012). "Supergene gold transformation: Secondary and nano-particulate gold from southern New Zealand." Chemical Geology **320–321**(0): 32-45.

Reith, F., C. M. Zammit, et al. (2012). "Potential utilisation of micro-organisms in gold processing: A review." Transactions of the Institutions of Mining and Metallurgy, Section C: Mineral Processing and Extractive Metallurgy **121**(4): 251-260.

Richardson, A. C., T. C. Foo, et al. (2012). A microstructured optical fiber sensor for ion-sensing based on the photoinduced electron transfer effect. 3rd Asia Pacific Optical Sensors Conference, Sydney, NSW.

Rieckmann, M., J. L. Park, et al. (2012). "Modelling the three-dimensional vibration of composite archery arrows under free-free boundary conditions." Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology **226**(2): 114-122.

Robertson, W., B. Cazzolato, et al. (2012). "Axial force between a thick coil and a cylindrical permanent magnet: Optimizing the geometry of an electromagnetic actuator." IEEE Transactions on Magnetics **48**(9): 2479-2487.

Robertson, W., B. Cazzolato, et al. (2012). "Theoretical analysis of a non-contact spring with inclined permanent magnets for load-independent resonance frequency." Journal of Sound and Vibration **331**(6): 1331-1341.

Roghanian, R., M. R. Rasaei, et al. (2012). "Prediction of key points of water-oil relative permeability curves using the linear regression technique." Petroleum Science and Technology **30**(5): 518-533.

Rosser, A. (2012). "Realising Free Health Care for the Poor in Indonesia: The Politics of Illegal Fees." Journal of Contemporary Asia **42**(2): 255-275.

Rosser, A. (2012). "Towards Effective International Work-Integrated Learning Practica in Development Studies: Reflections on the Australian Consortium for 'In-Country' Indonesian Studies' Development Studies Professional Practicum." Journal of Geography in Higher Education **36**(3): 341-353.

Rosser, A. and I. Wilson (2012). "Democratic decentralisation and pro-poor policy reform in indonesia: The politics of health insurance for the poor in jembrana and tabanan." Asian Journal of Social Science **40**(5-6): 608-634.

Rudall, P. J. and J. G. Conran (2012). "Systematic Placement of Dasypogonaceae Among Commelinid Monocots: Evidence from Flowers and Fruits." *Botanical Review* **78**(4): 398-415.

Salmachi, A. and M. Haghghi (2012). "Feasibility study of thermally enhanced gas recovery of coal seam gas reservoirs using geothermal resources." *Energy and Fuels* **26**(8): 5048-5059.

Salmachi, A., M. Haghghi, et al. (2012). Combined energy recovery from coal seam gas reservoirs and geothermal resources (simulation study). International Petroleum Technology Conference 2012, Bangkok, Thailand.

Sappenfield, A., M. Droser, et al. (2012). "The oldest Zoophycos and implications for Early Cambrian deposit feeding." *Geological Magazine* **149**(6): 1118-1123.

Scarborough, C. C., S. Sproules, et al. (2012). "Scrutinizing low-spin Cr(II) complexes." *Inorganic Chemistry* **51**(12): 6969-6982.

Schmidt Mumm, A., R. C. Dart, et al. (2012). "Hematite/Maghemite trace element geochemistry in base metal exploration." *Journal of Geochemical Exploration* **118**(0): 1-13.

Schofield, N., L. Heaton, et al. (2012). "Seismic imaging of 'broken bridges': Linking seismic to outcrop-scale investigations of intrusive magma lobes." *Journal of the Geological Society* **169**(4): 421-426.

Seifollahi, S., J. Yearwood, et al. (2012). "Novel weighting in single hidden layer feedforward neural networks for data classification." *Computers and Mathematics with Applications* **64**(2): 128-136.

Selway, K., S. Thiel, et al. (2012). "A simple 2-D explanation for negative phases in TE magnetotelluric data." *Geophysical Journal International* **188**(3): 945-958.

Sen, K. and A. S. Collins (2012). "Dextral transpression and late Eocene magmatism in the trans-Himalayan Ladakh Batholith (North India): implications for tectono-magmatic evolution of the Indo-Eurasian collisional arc." *International Journal of Earth Sciences*: 1-15.

Shen, J., M. Karakus, et al. (2012). "A comparative study for empirical equations in estimating deformation modulus of rock masses." *Tunnelling and Underground Space Technology* **32**(0): 245-250.

Shen, J., M. Karakus, et al. (2012). "Direct expressions for linearization of shear strength envelopes given by the Generalized Hoek–Brown criterion using genetic programming." *Computers and Geotechnics* **44**(0): 139-146.

Shen, J., S. D. Priest, et al. (2012). "Determination of Mohr-Coulomb shear strength parameters from generalized Hoek-Brown criterion for slope stability analysis." Rock Mechanics and Rock Engineering **45**(1): 123-129.

Shimizu, M., S. Otoh, et al. (2012). "A tribute to Ei Horikoshi (1932-2009)." Resource Geology **62**(4): 327-328.

Simms, K., N. Bean, et al. (2012). "A Mathematical Model of Cell Cycle Progression Applied to the MCF-7 Breast Cancer Cell Line." Bulletin of Mathematical Biology **74**(3): 736-767.

Sinclair, C., S. Greenhalgh, et al. (2012). "Wavenumber sampling issues in 2.5D frequency domain seismic modelling." Pure and Applied Geophysics **169**(1-2): 141-156.

Song, J. G., X. Song, et al. (2012). "Enhancing the conversion efficiency of semiconductor sensitized solar cells via the cosensitization of dual-sized quantum dots." Industrial and Engineering Chemistry Research **51**(30): 10074-10078.

Sossi, P. A., J. D. Foden, et al. (2012). "Redox-controlled iron isotope fractionation during magmatic differentiation: An example from the Red Hill intrusion, S. Tasmania." Contributions to Mineralogy and Petrology **164**(5): 757-772.

Swart, P. K. and M. J. Kennedy (2012). "Does the global stratigraphic reproducibility of $\delta^{13}\text{C}$ in neoproterozoic carbonates require a marine origin? A Pliocene- Pleistocene comparison." Geology **40**(1): 87-90.

Taheri, S., M. Mammadov, et al. (2012). "Globally convergent algorithms for solving unconstrained optimization problems." Optimization.

Tan, K. M., T. F. Lu, et al. (2012). Side scan sonar modeling for maritime robotic operations. Applied Mechanics and Materials. **152-154**: 1195-1201.

Tang, C., W. L. Soong, et al. (2012). "Dynamic wind turbine output power reduction under varying wind speed conditions due to inertia." Wind Energy.

Tang, C., W. L. Soong, et al. (2012). Effect of pole and slot number changes on the performance of a surface PM machine. 20th International Conference on Electrical Machines, Marseille, France.

Tang, C., W. L. Soong, et al. (2012). Modelling of surface PM machine using soft magnetic composites and a bonded magnet ring. 20th International Conference on Electrical Machines, Marseille, France.

Tassone, D. R., S. P. Holford, et al. (2012). Quantifying Neogene plate-boundary controlled uplift and deformation of the southern Australian margin. Geological Society

Special Publication. **367**: 91-110.

Tian, Y., B. Etschmann, et al. (2012). "Speciation of nickel (II) chloride complexes in hydrothermal fluids: In situ XAS study." Chemical Geology **334**(0): 345-363.

Tian, Z. F., P. J. Witt, et al. (2012). "Combustion of predried brown coal in a tangentially fired furnace under different operating conditions." Energy and Fuels **26**(2): 1044-1053.

Tingay, M. (2012). "The inaugural australian geoscience teaching workshop." AusIMM Bulletin **1**(3).

Tingay, M., P. Benton, et al. (2012). Evidence for non-Andersonian faulting above evaporites in the Nile Delta. Geological Society Special Publication. **367**: 155-170.

Tingay, M., C. Morley, et al. (2012). Overpressures in the Northern Malay Basin: Part 1 - Origin and distribution. International Petroleum Technology Conference 2012, Bangkok, Thailand.

Tjioe, L., T. Joshi, et al. (2012). "Phosphodiester cleavage properties of copper(II) complexes of 1,4,7-triazacyclononane ligands bearing single alkyl guanidine pendants." Inorganic Chemistry **51**(2): 939-953.

Tohver, E., A. S. Collins, et al. (2012). "Assembling two easy pieces: The geology of western Gondwana and plate tectonic theory - An introduction to the special volume." Gondwana Research **21**(2-3): 311-315.

Toor, M. and B. Jin (2012). "Adsorption characteristics, isotherm, kinetics, and diffusion of modified natural bentonite for removing diazo dye." Chemical Engineering Journal **187**(0): 79-88.

Tuck, E. O. and Y. M. Stokes (2012). "On thin or slender bodies." ANZIAM Journal **53**(3): 190-212.

Tuitt, A., R. King, et al. (2012). Modelling of sediment wedge movement along low-angle detachments using ABAQUSTM. Geological Society Special Publication. **367**: 171-183.

Umali, B. P., D. P. Oliver, et al. (2012). "The effect of terrain and management on the spatial variability of soil properties in an apple orchard." Catena **93**: 38-48.

Umali, B. P., D. P. Oliver, et al. (2012). "Spatial distribution of diuron sorption affinity as affected by soil, terrain and management practices in an intensively managed apple orchard." Journal of Hazardous Materials **217-218**: 398-405.

Ustaömer, P. A., T. Ustaömer, et al. (2012). "Evidence of Precambrian sedimentation/magmatism and Cambrian metamorphism in the Bitlis Massif, SE Turkey utilising whole-rock geochemistry and U-Pb LA-ICP-MS zircon dating." Gondwana

Research **21**(4): 1001-1018.

Vakarelov, B. K. and R. B. Ainsworth (2012). Predicting marginal marine reservoir architecture: Examples from Asian shoreline systems. International Petroleum Technology Conference 2012, Bangkok, Thailand.

Vakarelov, B. K., R. B. Ainsworth, et al. (2012). "Recognition of wave-dominated, tide-influenced shoreline systems in the rock record: Variations from a microtidal shoreline model." Sedimentary Geology **279**(0): 23-41.

van der Hoek, B. G., S. M. Hill, et al. (2012). "Calcrete and plant inter-relationships for the expression of concealed mineralization at the Tunkillia gold prospect, central Gawler Craton, Australia." Geochemistry: Exploration, Environment, Analysis **12**(4): 361-372.

Van Eyk, P. J., A. Kosminski, et al. (2012). "Control of agglomeration and defluidization during fluidized-bed combustion of south Australian low-rank coals." Energy and Fuels **26**(1): 118-129.

Van Overveldt, A. S., H. Guo, et al. (2012). A CT scan aided core-flood study of the leak-off process in oil-based drilling fluids. SPE International Symposium and Exhibition on Formation Damage Control 2012, Lafayette, LA.

Varney, J. and N. Bean (2012). Air-cooled binary rankine cycle performance with varying ambient temperature. Geothermal Resources Council Annual Meeting 2012 - Geothermal: Reliable, Renewable, Global, Reno, NV.

Velleman, L., D. Losic, et al. (2012). "The effects of surface functionality positioning on the transport properties of membranes." Journal of Membrane Science **411–412**(0): 211-218.

Wade, C. E., A. J. Reid, et al. (2012). "Geochemistry and geochronology of the c. 1585 Ma Benagerie Volcanic Suite, southern Australia: Relationship to the Gawler Range Volcanics and implications for the petrogenesis of a Mesoproterozoic silicic large igneous province." Precambrian Research **206–207**(0): 17-35.

Wakelin, S., R. R. Anand, et al. (2012). "Assessing microbiological surface expression over an overburden-covered VMS deposit." Journal of Geochemical Exploration **112**(0): 262-271.

Wakelin, S. A., R. R. Anand, et al. (2012). "Bacterial communities associated with a mineral weathering profile at a sulphidic mine tailings dump in arid Western Australia." FEMS Microbiology Ecology **79**(2): 298-311.

Walsh, A. K., T. Raimondo, et al. "Duration of high-pressure metamorphism and cooling during the intraplate Petermann Orogeny." Gondwana Research(0).

Wan, Z., Z. You, et al. (2012). "Method of taylor expansion moment incorporating fractal theories for brownian coagulation of fine particles." International Journal of Nonlinear Sciences and Numerical Simulation **13**(7-8): 459-467.

Wan, Z. H., Z. J. You, et al. (2012). "Dynamic stability of non-dilute fiber shear suspensions." Thermal Science **16**(5): 1551-1555.

Wang, L., N. Ertugrul, et al. (2012). Evaluation of dead beat current controllers for grid connected converters. 2012 IEEE Innovative Smart Grid Technologies - Asia, Tianjin, China.

Wanner, T. and A. Rosser (2012). "Building Neo-liberal Markets and Other Agendas: The Politics of Risk Management at AusAID." Journal of Contemporary Asia **42**(3): 447-463.

Weekley, C. M., J. B. Aitken, et al. (2012). "Methylselenocysteine treatment leads to diselenide formation in human cancer cells: Evidence from X-ray absorption spectroscopy studies." Biochemistry **51**(3): 736-738.

Wei, L., B. Jin, et al. (2012). "Polymer microbead-based surface enhanced Raman scattering immunoassays." Journal of Physical Chemistry C **116**(32): 17174-17181.

Weisbecker, H., B. Cazzolato, et al. (2012). "Surface Strain Measurements Using a 3D Scanning Laser Vibrometer." Experimental Mechanics **52**(7): 805-815.

Welsh, M. B. and D. J. Navarro (2012). "Seeing is believing: Priors, trust, and base rate neglect." Organizational Behavior and Human Decision Processes **119**(1): 1-14.

Williams, G. E. and J. Foden (2012). "Reply: A unifying model for the Torridon Group (early Neoproterozoic), NW Scotland: Product of post-Grenvillian extensional collapse." Earth-Science Reviews **111**(1–2): 86-89.

Winderbaum, L., C. L. Ciobanu, et al. (2012). "Multivariate Analysis of an LA-ICP-MS Trace Element Dataset for Pyrite." Mathematical Geosciences **44**(7): 823-842.

Winkler, M., K. Becker, et al. (2012). "Aeroacoustic effects of a cylinder-plate configuration." AIAA Journal **50**(7): 1614-1620.

Wu, F., C. Liu, et al. (2012). "Fabrication and properties of porous scaffold of magnesium phosphate/polycaprolactone biocomposite for bone tissue engineering." Applied Surface Science **258**(19): 7589-7595.

Wu, F., Y. Ngothai, et al. (2012). "Premixed, injectable PLA-modified calcium deficient apatite biocement (cd-AB) with washout resistance." Colloids and Surfaces B: Biointerfaces **92**(0): 113-120.

Wu, F., J. Wei, et al. (2012). "Fabrication and properties of porous scaffold of zein/PCL biocomposite for bone tissue engineering." Composites Part B: Engineering **43**(5): 2192-2197.

Wu, J. W., M. J. Biggs, et al. (2012). "Experimental implementation and validation of thermodynamic cycles of adsorption-based desalination." Applied Energy **98**(0): 190-197.

Wu, J. W., E. J. Hu, et al. (2012). Low energy adsorption desalination technology. Advanced Materials Research. **347-353**: 601-606.

Wu, J. W., E. J. Hu, et al. (2012). "Thermodynamic cycles of adsorption desalination system." Applied Energy **90**(1): 316-322.

Wu, X., W. Xing, et al. (2012). "Nickel nanoparticles prepared by hydrazine hydrate reduction and their application in supercapacitor." Powder Technology **224**: 162-167.

Wu, X., J. Zhou, et al. (2012). "High-rate capacitive performance of graphene aerogel with a superhigh C/O molar ratio." Journal of Materials Chemistry **22**(43): 23186-23193.

Xia, F., J. Brugger, et al. (2012). "Single-pass flow-through reaction cell for high-temperature and high-pressure *in situ* neutron diffraction studies of hydrothermal crystallization processes." Journal of Applied Crystallography **45**(2): 166-173.

Xia, F., A. Pring, et al. (2012). "Understanding the mechanism and kinetics of pentlandite oxidation in extractive pyrometallurgy of nickel." Minerals Engineering **27-28**(0): 11-19.

Xing, W., C. Liu, et al. (2012). "Superior CO₂ uptake of N-doped activated carbon through hydrogen-bonding interaction." Energy and Environmental Science **5**(6): 7323-7327.

Xu, B., M. Haghghi, et al. (2012). Production data analysis in Eagle Ford Shale gas reservoir. SPE/EAGE European Unconventional Resources Conference and Exhibition 2012, Vienna, Austria.

Xu, D., I. Ametov, et al. (2012). "Quantifying rheological and fine particle attachment contributions to coarse particle recovery in flotation." Minerals Engineering **39**: 89-98.

Xue, Y., M. Arjomandi, et al. (2012). "Experimental study of the flow structure in a counter flow Ranque-Hilsch vortex tube." International Journal of Heat and Mass Transfer **55**(21-22): 5853-5860.

Ye, L., N. J. Cook, et al. (2012). "The Niujiaotang Cd-rich zinc deposit, Duyun, Guizhou province, southwest China: Ore genesis and mechanisms of cadmium concentration." Mineralium Deposita **47**(6): 683-700.

Ying, L. and N. Ertugrul (2012). A PMAC motor drive with a minimum number of sensors. Advances in Intelligent and Soft Computing. **127 AISC**: 557-567.

You, Z., K. Aji, et al. (2012). Effect of nanoparticle transport and retention in oilfield rocks on the efficiency of different nanotechnologies in oil industry. SPE International Oilfield Nanotechnology Conference 2012, Noordwijk, Netherlands.

You, Z. and P. Bedrikovetsky (2012). A new mathematical model for colloidal flow in rocks: Accounting for pore geometry and network topology in bimodal media. SPE International Oilfield Nanotechnology Conference 2012, Noordwijk, Netherlands.

Yu, J., D. M. Huang, et al. (2012). "Electrochemical and computational studies on intramolecular dissociative electron transfer in β -peptides." Journal of Physical Chemistry C **116**(50): 26608-26617.

Yu, J., O. Zvarec, et al. (2012). "Electron transfer through α -peptides attached to vertically aligned carbon nanotube arrays: A mechanistic transition." Chemical Communications **48**(8): 1132-1134.

Yu, Y., J. Addai-Mensah, et al. (2012). "Functionalized diatom silica microparticles for removal of mercury ions." Science and Technology of Advanced Materials **13**(1).

Yu, Y., K. Kant, et al. (2012). "Gold nanotube membranes have catalytic properties." Microporous and Mesoporous Materials **153**(0): 131-136.

Yuan, H., A. Shapiro, et al. (2012). "Estimating filtration coefficients for straining from percolation and random walk theories." Chemical Engineering Journal **210**(0): 63-73.

Zammit, C. M., N. Cook, et al. (2012). "The future of biotechnology for gold exploration and processing." Minerals Engineering **32**(0): 45-53.

Zammit, C. M., S. Mangold, et al. (2012). "Bioleaching in brackish waters-effect of chloride ions on the acidophile population and proteomes of model species." Applied Microbiology and Biotechnology **93**(1): 319-329.

Zeinijahromi, A., A. Vaz, et al. (2012). Productivity impairment of gas wells due to fines migration. SPE International Symposium and Exhibition on Formation Damage Control 2012, Lafayette, LA.

Zeinijahromi, A., A. Vaz, et al. (2012). "Well impairment by fines migration in gas fields." Journal of Petroleum Science and Engineering **88-89**(0): 125-135.

Zeinijahromi, A., A. Vaz, et al. (2012). "Well impairment by fines migration in gas fields." Journal of Petroleum Science and Engineering **88-89**: 125-135.

Zeinijahromi, A., A. Vaz, et al. (2012). "Effects of fines migration on well productivity during steady state production." Journal of Porous Media **15**(7): 665-679.

Zhao, S., T. F. Lu, et al. (2012). A simulation study of sensor data fusion using UKF for bucket wheel reclaimer localization. 2012 IEEE International Conference on Automation Science and Engineering: Green Automation Toward a Sustainable Society, Seoul, South Korea.

Zhao, S., T. F. Lu, et al. (2012). Stockpile modelling using mobile laser scanner for quality grade control in stockpile management. 2012 12th International Conference on Control, Automation, Robotics and Vision, Guangzhou, China.

Zhao, Y., E. Hu, et al. (2012). "A comparison of three adsorption equations and sensitivity study of parameter uncertainty effects on adsorption refrigeration thermal performance estimation." Heat and Mass Transfer/Waerme- und Stoffuebertragung **48**(2): 217-226.

Zhao, Y., E. Hu, et al. (2012). "Dynamic modelling of an activated carbon–methanol adsorption refrigeration tube with considerations of interfacial convection and transient pressure process." Applied Energy **95**(0): 276-284.

Zhao, Y. L., E. Hu, et al. (2012). "A non-uniform pressure and transient boundary condition based dynamic modeling of the adsorption process of an adsorption refrigeration tube." Applied Energy **90**(1): 280-287.

Zheng, Y., Y. Jiao, et al. (2012). "Nanostructured metal-free electrochemical catalysts for highly efficient oxygen reduction." Small **8**(23): 3550-3566.

Zheng, Y., J. Liu, et al. (2012). "Graphitic carbon nitride materials: Controllable synthesis and applications in fuel cells and photocatalysis." Energy and Environmental Science **5**(5): 6717-6731.

Zheng, Y., R. Ran, et al. (2012). "Study on oxygen activation and methane oxidation over La 0.8Sr0.2MnO₃ electrode in single-chamber solid oxide fuel cells via an electrochemical approach." International Journal of Hydrogen Energy **37**(5): 4328-4338.

Zhou, B., S. Greenhalgh, et al. (2012). "Wavenumber sampling strategies for 2.5-D frequency-domain seismic wave modelling in general anisotropic media." Geophysical Journal International **188**(1): 223-238.

Zhou, B., S. Greenhalgh, et al. (2012). "2.5-D frequency-domain seismic wave modeling in heterogeneous, anisotropic media using a Gaussian quadrature grid technique." Computers & Geosciences **39**(0): 18-33.

Zivkovic, V., M. J. Biggs, et al. (2012). "Granular pressure in a liquid-fluidized bed as revealed by diffusing wave spectroscopy." AIChE Journal **58**(4): 1069-1075.

