



Publications

Journal articles

Aartsen, M. G., Ackermann, M., Adams, J., Aguilar, J. A., Ahlers, M., Ahrens, M., Zweizig, J. (2014). Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. [10.1103/PhysRevD.90.102002]. *Physical Review D - Particles, Fields, Gravitation and Cosmology*, 90(10). doi: 10.1103/PhysRevD.90.102002

Aasi, J., Abadie, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Zweizig, J. (2014). Constraints on cosmic strings from the ligo-virgo gravitational-wave detectors. [10.1103/PhysRevLett.112.131101]. *Physical Review Letters*, 112(13). doi: 10.1103/PhysRevLett.112.131101

Aasi, J., Abadie, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Stappers, B. W. (2014). Gravitational waves from known pulsars: Results from the initial detector era. [10.1088/0004-637X/785/2/119]. *Astrophysical Journal*, 785(2). doi: 10.1088/0004-637X/785/2/119

Aasi, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Accadia, T., Zweizig, J. (2014). First all-sky search for continuous gravitational waves from unknown sources in binary systems. [10.1103/PhysRevD.90.062010]. *Physical Review D - Particles, Fields,*

Gravitation and Cosmology, 90(6). doi: 10.1103/PhysRevD.90.062010

Aasi, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Accadia, T., Zweizig, J. (2014). Implementation of an F-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. [10.1088/0264-9381/31/16/165014]. *CLASSICAL AND QUANTUM GRAVITY*, 31(16), 165014:165011-165014:165027. doi: 10.1088/0264-9381/31/16/165014

Aasi, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Accadia, T., Zweizig, J. (2014). Improved upper limits on the stochastic gravitational-wave background from 2009-2010 LIGO and Virgo data. [10.1103/PhysRevLett.113.231101]. *Physical Review Letters*, 113(23), 231101-231101-231101-231110. doi: 10.1103/PhysRevLett.113.231101

Aasi, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Accadia, T., Zlochower, Y. (2014). The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. [10.1088/0264-9381/31/11/115004]. *Classical and Quantum Gravity*, 31(11), 115004:115001-115004:115045. doi: 10.1088/0264-9381/31/11/115004

Aasi, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Acernese, F., Zweizig, J. (2015). Narrow-band search of continuous gravitational-wave signals from Crab

and Vela pulsars in Virgo VSR4 data. [10.1103/PhysRevD.91.022004]. *Physical Review D - Particles, Fields, Gravitation and Cosmology*, 91(2). doi: 10.1103/PhysRevD.91.022004

Aasi, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Acernese, F., Zweizig, J. (2015). Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. [10.1103/PhysRevD.91.062008]. *Physical Review D - Particles, Fields, Gravitation and Cosmology*, 91(6). doi: 10.1103/PhysRevD.91.062008

Aasi, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Acernese, F., Zweizig, J. (2014). Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005-2010. [10.1103/PhysRevD.89.102006]. *PHYSICAL REVIEW D*, 89(10), 102006:102001-102006:102018. doi: 10.1103/PhysRevD.89.102006

Aasi, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Acernese, F., Zweizig, J. (2014). Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors. [10.1103/PhysRevD.89.122004]. *Physical Review D - Particles, Fields, Gravitation and Cosmology*, 89(12). doi: 10.1103/PhysRevD.89.122004

Aasi, J., Abbott, B. P., Abbott, R., Abbott, T., Abernathy, M. R., Acernese, F., Von Kienlin, A. (2014).

- Search for gravitational waves associated with γ -ray bursts detected by the interplanetary network. [10.1103/PhysRevLett.113.011102]. *Physical Review Letters*, 113(1). doi: 10.1103/PhysRevLett.113.011102
- Aasi, J., Hosken, D., Hough, J., Kim, W., Kim, Y. M., King, E., Veitch, P. (2014). Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run. [10.1088/0264-9381/31/8/085014]. *Classical and Quantum Gravity*, 31(8), 085014:085011-085014:085035. doi: 10.1088/0264-9381/31/8/085014
- Abul Khair, H., Cooke, D., & Hand, M. (2014). Seismic mapping and geomechanical analyses of faults within deep hot granites, workflow for enhanced geothermal systems. *76th European Association of Geoscientists and Engineers Conference and Exhibition 2014: Experience the Energy - Incorporating SPE EUROPEC 2014*, 197-201.
- Acernese, F., Hosken, D., Hough, J., Kim, W., Kim, Y. M., King, E., Veitch, P. (2014). First searches for optical counterparts to gravitational-wave candidate events. [10.1088/0067-0049/211/1/7]. *Astrophysical Journal, Supplement Series*, 211(1), 7:1-7:25. doi: 10.1088/0067-0049/211/1/7
- Agnew, D., Green, J., Brown, T., Simpson, M., & Binder, B. (2014). Distinguishing between mechanisms of cell aggregation using pair-correlation functions. [10.1016/j.jtbi.2014.02.033]. *Journal of Theoretical Biology*, 352(C), 16-23. doi: 10.1016/j.jtbi.2014.02.033
- Alghalandis, Y. F., Dowd, P. A., & Xu, C. (2014). Connectivity field: a measure for characterising fracture networks. [10.1007/s11004-014-9520-7]. *Mathematical Geosciences*, 47(1), 63-83. doi: 10.1007/s11004-014-9520-7
- Allinson, W. G., Cinar, Y., Neal, P. R., Kaldi, J., & Paterson, L. (2014). CO₂-storage capacity-combining geology, engineering and economics. *SPE Economics and Management*, 6(1), 15-27.
- Alsawat, M., Altalhi, T., Shapter, J. G., & Lolic, D. (2014). Influence of dimensions, inter-distance and crystallinity of titania nanotubes (TNTs) on their photocatalytic activity. [10.1039/c3cy01100c]. *CATALYSIS SCIENCE & TECHNOLOGY*, 4(7), 2091-2098. doi: 10.1039/c3cy01100c
- Amarasinghe, U., Chaudhuri, A., Collins, A. S., Deb, G., & Patranabis-Deb, S. (2014). Evolving provenance in the Proterozoic Pranhita-Godavari Basin, India. [10.1016/j.gsf.2014.03.009]. *Geoscience Frontiers*. doi: 10.1016/j.gsf.2014.03.009
- Andersson, G. G., Golovko, V. B., Alvino, J. F., Bennett, T., Wrede, O., Mejia, S. M., Metha, G. F. (2014). Phosphine-stabilised Au₉ clusters interacting with titania and silica surfaces: The first evidence for the density of states signature of the support-immobilised cluster. [10.1063/1.4884642]. *Journal of Chemical Physics*, 141(1). doi: 10.1063/1.4884642
- Antony, S., Morris, J. C., Bell, T. D. M., Brown, T., Spiccia, L., & Harris, H. H. (2014). The H.G. Smith award article: Fluorescent analogues of NAMI-A: Synthesis, characterisation, fluorescent properties, and preliminary biological studies in human lung cancer cells. [10.1071/CH14205]. *Australian Journal of Chemistry*, 67(12), 1711-1717. doi: 10.1071/CH14205
- Arboit, F., Collins, A. S., King, R., Morley, C. K., & Hansberry, R. (2014). Structure of the Sibumasu-Indochina collision, central Thailand: A section through the Khao Khwang Fold and thrust belt. [10.1016/j.jseaes.2014.06.016]. *Journal of Asian Earth Sciences*, 95, 182-191. doi: 10.1016/j.jseaes.2014.06.016
- Archibald, D. B., Collins, A. S., Foden, J. D., Payne, J. L., Taylor, R., Holden, P., Clark, C. (2014). Towards unravelling the Mozambique Ocean conundrum using a triumvirate of zircon isotopic proxies on the Ambatolampy Group, central Madagascar. [10.1016/j.tecto.2015.02.018]. *Tectonophysics*. doi: 10.1016/j.tecto.2015.02.018
- Armit, R. J., Betts, P. G., Schaefer, B. F., Pankhurst, M. J., & Giles, D. (2014). Provenance of the Early Mesoproterozoic Radium Creek Group in the northern Mount Painter Inlier: Correlating isotopic signatures to inform tectonic reconstructions. [10.1016/j.precamres.2013.12.022]. *Precambrian Research*, 243(C), 63-87. doi: 10.1016/j.precamres.2013.12.022
- Aw, M., Kurian, M., & Lolic, D. (2014). Non-eroding drug-releasing implants with ordered nanoporous and nanotubular structures: concepts for controlling drug release. [10.1039/C3BM60196J]. *Biomaterials Science*, 2(1), 10-34. doi: 10.1039/C3BM60196J
- Babarao, R., Coghlan, C., Rankine, D., Bloch, W., Gransbury, G., Sato, H., Doonan, C. (2014). Does functionalisation enhance CO₂ uptake in interpenetrated MOFs? An examination of the IRMOF-9 series. [10.1039/C4CC00700J]. *Chemical Communications*, 50(24), 3238-3241. doi: 10.1039/C4CC00700J
- Badalyan, A., You, Z., Aji, K., Bedrikovetsky, P., Carageorgos, T., & Zeinijahromi, A. (2014). Size exclusion deep bed filtration: Experimental and modelling uncertainties. [10.1063/1.4861096]. *REVIEW OF SCIENTIFIC INSTRUMENTS*, 85(1), 1-13. doi: 10.1063/1.4861096
- Balasuriya, S., & Binder, B. J. (2014). Nonautonomous analysis of steady Korteweg-de Vries waves under nonlocalised forcing. [10.1016/j.physd.2014.07.001].

- Physica D: Nonlinear Phenomena*, 285(C), 28-41. doi: 10.1016/j.physd.2014.07.001
- Bariana, M., Aw, M. S., Moore, E., Voelcker, N. H., & Losic, D. (2014). Radiofrequency-triggered release for on-demand delivery of therapeutics from titania nanotube drug-eluting implants. [10.2217/nnm.13.93]. *Nanomedicine*, 9(8), 1263-1275. doi: 10.2217/nnm.13.93
- Bastami, T. R., Entezari, M. H., Kwong, C., & Qiao, S. (2014). Influences of spinel type and polymeric surfactants on the size evolution of colloidal magnetic nanocrystals (MFe₂O₄, M= Fe, Mn). [10.1007/s11705-014-1441-y]. *Frontiers of Chemical Science and Engineering*, 8(3), 378-385. doi: 10.1007/s11705-014-1441-y
- Beaudoin, N., Lacombe, O., Bellahsen, N., Amrouch, K., & Daniel, J. M. (2014). Evolution of pore-fluid pressure during folding and basin contraction in overpressured reservoirs assessed by combined fracture analysis and calcite twinning paleopiezometry *European Geosciences Union General Assembly 2014* (Vol. 16, pp. 3552-3552). Vienna, Austria.
- Beaudoin, N., Lacombe, O., Bellahsen, N., Amrouch, K., & Daniel, J. M. (2014). Evolution of pore-fluid pressure during folding the basin contraction in overpressured reservoirs: insights from the Madison-Phosphoria carbonate formations in the Bighorn Basin (Wyoming, USA). [10.1016/j.marpetgeo.2013.12.009]. *Marine and Petroleum Geology*, 55(C), 214-229. doi: 10.1016/j.marpetgeo.2013.12.009
- Beaudoin, N., Lacombe, O., Bellahsen, N., Amrouch, K., & Daniel, J. M. (2014). Fluid pressure evolution in overpressured limestone reservoir at basin-scale: example of the Bighorn Basin (Wyoming, USA) and lessons from comparison with other reservoirs *European Geosciences Union General Assembly 2014* (Vol. 16, pp. 3497-3497). Vienna, Austria.
- Bedrikovetski, P., & Caruso, N. (2014). Analytical model for fines migration during water injection. [10.1007/s11242-013-0238-7]. *Transport in Porous Media*, 101(2), 161-189. doi: 10.1007/s11242-013-0238-7
- Bennett, T., Adnan, R. H., Alvino, J. F., Golovko, V., Andersson, G. G., & Metha, G. F. (2014). Identification of the vibrational modes in the far-infrared spectra of ruthenium carbonyl clusters and the effect of gold substitution. [10.1021/ic403040u]. *Inorganic Chemistry*, 53(9), 4340-4349. doi: 10.1021/ic403040u
- Binder, B. J., Blyth, M. G., & Balasuriya, S. (2014). Non-uniqueness of steady free-surface flow at critical Froude number. [10.1209/0295-5075/105/44003]. *EPL*, 105(4), 1-6. doi: 10.1209/0295-5075/105/44003
- Binder, B. J., & Simpson, M. J. (2014). Cell density and cell size dynamics during in vitro tissue growth experiments: Implications for mathematical models of collective cell behaviour. [10.1016/j.apm.2015.01.016]. *Applied Mathematical Modelling*. doi: 10.1016/j.apm.2015.01.016
- Birzer, C., Medwell, P., MacFarlane, G., Read, M., Wilkey, J., Higgins, M., & West, T. (2014). A biochar-producing, dung-burning cookstove for humanitarian purposes. [10.1016/j.proeng.2014.07.063]. *Procedia Engineering*, 78(C), 243-249. doi: 10.1016/j.proeng.2014.07.063
- Bloch, W. M., Burgun, A., Coghlan, C. J., Lee, R., Coote, M. L., Doonan, C. J., & Sumbly, C. J. (2014). Capturing snapshots of post-synthetic metallation chemistry in metal-organic frameworks. [10.1038/nchem.2045]. *Nature Chemistry*, 6(10), 906-912. doi: 10.1038/nchem.2045
- Borazjani, S., Bedrikovetski, P., & Farajzadeh, R. (2014). Exact solution for non-self-similar wave-interaction problem during two-phase four-component flow in porous media. [10.1155/2014/731567]. *Abstract and Applied Analysis*, 2014(ARTN 731567), 731567-731561-731567-731513. doi: 10.1155/2014/731567
- Brunner, J., Tooth, B., Etschmann, B., Liu, W., Testemale, D., Hazemann, J. L., & Grundler, P. (2014). Structure and thermal stability of Bi(III) oxy-clusters in aqueous solutions. [10.1007/s10953-014-0131-1]. *Journal of Solution Chemistry*, 43(2), 314-324. doi: 10.1007/s10953-014-0131-1
- Burgun, A., Crees, R. S., Cole, M. L., Doonan, C. J., & Sumbly, C. J. (2014). A 3-D diamondoid MOF catalyst based on in situ generated [Cu (L) 2] N-heterocyclic carbene (NHC) linkers: hydroboration of CO 2. [10.1039/c4cc04761c]. *Chemical Communications, Online*(79), 1-4. doi: 10.1039/c4cc04761c
- Burgun, A., Gendron, F. D. R., Sumbly, C. J., Roisnel, T., Cador, O., Costuas, K., Lapinte, C. (2014). Hexatrienediyl Chain Spanning Two Cp*(dppe) M Termini (M= Fe, Ru): Evidence for the Dependence of Electronic and Magnetic Couplings on the Relative Orientation of the Termini. [10.1021/om500328y]. *Organometallics*, 33(10), 2613-2627. doi: 10.1021/om500328y
- Burnell, O. W., Connell, S. D., Irving, A. D., Watling, J. R., & Russell, B. D. (2014). Contemporary reliance on bicarbonate acquisition predicts increased growth of seagrass *Amphibolis antarctica* in a high-CO₂ world. [10.1093/conphys/cou052]. *Conservation Physiology*, 2(1), cou052-051-cou052-011. doi: 10.1093/conphys/cou052
- Ceko, M. J., Aitken, J. B., & Harris, H. H. (2014). Speciation of copper in a

- range of food types by X-ray absorption spectroscopy. [10.1016/j.foodchem.2014.05.018]. *Food Chemistry*, 164(C), 50-54. doi: 10.1016/j.foodchem.2014.05.018
- Ceko, M. J., Hummitzsch, K., Hatzirodos, N., Bonner, W. M., Aitken, J. B., Russell, D. L., Harris, H. H. (2015). Erratum: X-Ray fluorescence imaging and other analyses identify selenium and GPX1 as important in female reproductive function (*Metallomics* (2014) DOI:10.1039/c4mt00228h). [10.1039/c4mt90049a]. *Metallomics*, 7(1), 188-188. doi: 10.1039/c4mt90049a
- Chan, Q. N., Medwell, P. R., & Nathan, G. J. (2014). Algorithm for soot sheet quantification in a piloted turbulent jet non-premixed natural gas flame. [10.1007/s00348-014-1827-0]. *Experiments in Fluids*, 55(10). doi: 10.1007/s00348-014-1827-0
- Chandrasekaran, S., Sweetman, M. J., Kant, K., Skinner, W., Losic, D., Nann, T., & Voelcker, N. H. (2014). Silicon diatom frustules as nanostructured photoelectrodes. [10.1039/c4cc04470c]. *Chemical Communications*, 50(72), 10441-10444. doi: 10.1039/c4cc04470c
- Chang, D., & Kotousov, A. (2014). A fatigue crack growth model for interacting cracks in a plate of arbitrary thickness. [10.1111/ffe.12208]. *Fatigue and Fracture of Engineering Materials and Structures*, 37(11), 1254-1267. doi: 10.1111/ffe.12208
- Cheeseman, B., Zhang, D., Binder, B., Newgreen, D., & Landman, K. (2014). Cell lineage tracing in the developing enteric nervous system: superstars revealed by experiment and simulation. [10.1098/rsif.2013.0815]. *Journal of the Royal Society. Interface*, 11(93), 20130815-20130811-20130815-20130814. doi: 10.1098/rsif.2013.0815
- Chen, S., Duan, J., Han, W., & Qiao, S. (2014). A graphene-MnO₂ framework as a new generation of three-dimensional oxygen evolution promoter. [10.1039/c3cc47665k]. *Chemical Communications*, 50(2), 207-209. doi: 10.1039/c3cc47665k
- Chen, S., Duan, J., Jaroniec, M., & Qiao, S. Z. (2014). Nitrogen and Oxygen Dual-Doped Carbon Hydrogel Film as a Substrate-Free Electrode for Highly Efficient Oxygen Evolution Reaction. [10.1002/adma.201305608]. *ADVANCED MATERIALS*, 26(18), 2925-2930. doi: 10.1002/adma.201305608
- Chinnasamy, S., Sood, A., Renuka, N., Prasanna, R., Ratha, S. K., Bhaskar, S., Lewis, D. M. (2014). Ecobiological aspects of algae cultivation in wastewaters for recycling of nutrients and biofuel applications. [10.4155/bfs.13.78]. *Biofuels*, 5(2), 141-158. doi: 10.4155/bfs.13.78
- Chong, M. N., Tneu, Z. Y., Poh, P. E., Jin, B., & Aryal, R. (2014). Synthesis, characterisation and application of TiO₂-zeolite nanocomposites for the advanced treatment of industrial dye wastewater. [10.1016/j.jtice.2014.12.013]. *Journal of the Taiwan Institute of Chemical Engineers*. doi: 10.1016/j.jtice.2014.12.013
- Choudhry, A., Leknys, R., Arjomandi, M., & Kelso, R. (2014). An insight into the dynamic stall lift characteristics. [10.1016/j.expthermflusci.2014.07.006]. *Experimental Thermal and Fluid Science*, 58(C), 188-208. doi: 10.1016/j.expthermflusci.2014.07.006
- Choudhry, A., Mo, J. O., Arjomandi, M., & Kelso, R. (2014). Effects of wake interaction on downstream wind turbines. [10.1260/0309-524X.38.5.535]. *Wind Engineering*, 38(5), 535-547. doi: 10.1260/0309-524X.38.5.535
- Ciobanu, C. L., Brugger, J., Cook, N. J., Mills, S. J., Elliott, P., Damian, G., & Damian, F. (2014). Grațianite, MnBi₂S₄, a new mineral from the Băița Bihor skarn, Romania. [10.2138/am.2014.4836]. *American Mineralogist*, 99(5-6), 1163-1170. doi: 10.2138/am.2014.4836
- Ciobanu, C. L., Cook, N. J., Wade, B. P., & Ehrig, K. (2014). Ore Minerals Down to Nanoscale: Petrogenetic Implications. [10.1111/1755-6724.12382_2]. *ACTA GEOLOGICA SINICA-ENGLISH EDITION*, 88, 1441-1443. doi: 10.1111/1755-6724.12382_2
- Clark, C., Healy, D., Johnson, T., Collins, A. S., Taylor, R. J., Santosh, M., & Timms, N. E. (2014). Hot orogens and supercontinent amalgamation: A Gondwanan example from southern India. [10.1016/j.gr.2014.11.005]. *Gondwana Research*. doi: 10.1016/j.gr.2014.11.005
- Coghlan, C. J., Sumbly, C. J., & Doonan, C. J. (2014). Utilising hinged ligands in MOF synthesis: a covalent linking strategy for forming 3D MOFs. [10.1039/c4ce00181h]. *CrystEngComm*, 16(28), 6364-6371. doi: 10.1039/c4ce00181h
- Collins, A., Clark, C., & Plavsa, D. (2014). Peninsular India In Gondwana: the tectonothermal evolution of the Southern Granulite Terrain and its Gondwanan counterparts. [10.1016/j.gr.2013.01.002]. *Gondwana Research*, 25(1), 190-203. doi: 10.1016/j.gr.2013.01.002
- Cook, N. J., Ciobanu, C. L., George, L. L., Crowe, B., & Wade, B. P. (2014). Trace Element Distributions in Sulphides: Progress, Problems and Perspectives. [10.1111/1755-6724.12382_3]. *ACTA GEOLOGICA SINICA-ENGLISH EDITION*, 88, 1444-1446. doi: 10.1111/1755-6724.12382_3
- Davies, K. J., Green, J. E. F., Bean, N. G., Binder, B. J., & Ross, J. V. (2014). On the derivation of approximations to cellular automata models and the assumption of independence.

- [10.1016/j.mbs.2014.04.004]. *Mathematical Biosciences*, 253(1), 63-71. doi: 10.1016/j.mbs.2014.04.004
- De Grave, J., De Pelsmaeker, E., Zhimulev, F., Glorie, S., Buslov, M., & Van den haute, P. (2014). Meso-Cenozoic building of the northern Central Asian Orogenic Belt: thermotectonic history of the Tuva region. [10.1016/j.tecto.2014.01.039]. *Tectonophysics*, 621(C), 44-59. doi: 10.1016/j.tecto.2014.01.039
- Derakhshan, H., Dizhur, D., Griffith, M. C., & Ingham, J. M. (2014). In Situ Out-of-Plane Testing of As-Built and Retrofitted Unreinforced Masonry Walls. [10.1061/(ASCE)ST.1943-541X.0000960]. *JOURNAL OF STRUCTURAL ENGINEERING*, 140(6), 1-12. doi: 10.1061/(ASCE)ST.1943-541X.0000960
- Derakhshan, H., Dizhur, D. Y., Griffith, M. C., & Ingham, J. M. (2014). Seismic assessment of out-of-plane loaded unreinforced masonry walls in multi-storey buildings. *Bulletin of the New Zealand Society for Earthquake Engineering*, 47(2), 119-138.
- Derakhshandeh, J. F., Arjomandi, M., Cazzolato, B. S., & Dally, B. (2014). Effect of a rigid wall on the vortex induced vibration of two staggered circular cylinders. [10.1063/1.4879275]. *Journal of Renewable and Sustainable Energy*, 6(3), 033114-033111-033114-033116. doi: 10.1063/1.4879275
- Derakhshandeh, J. F., Arjomandi, M., Daily, B., & Cazzolato, B. (2014). The effect of arrangement of two circular cylinders on the maximum efficiency of Vortex-Induced Vibration power using a Scale-Adaptive Simulation model. [10.1016/j.jfluidstructs.2014.06.005]. *Journal of Fluids and Structures*, 49(C), 654-666. doi: 10.1016/j.jfluidstructs.2014.06.005
- Didana, Y. L., Thiel, S., & Heinson, G. (2014). Magnetotelluric imaging of upper crustal partial melt at Tendaho graben in Afar, Ethiopia. [10.1002/2014GL060000]. *Geophysical Research Letters*, 41(9), 3089-3095. doi: 10.1002/2014GL060000
- Ding, B., Cazzolato, B. S., Grainger, S., Stanley, R. M., & Costi, J. J. (2014). Active preload control of a redundantly actuated Stewart platform for backlash prevention. [10.1016/j.rcim.2014.09.005]. *Robotics and Computer-Integrated Manufacturing*, 32, 11-24. doi: 10.1016/j.rcim.2014.09.005
- Ding, B., Cazzolato, B. S., Grainger, S., Stanley, R. M., & Costi, J. J. (2014). Stiffness analysis and control of a stewart platform-based manipulator with decoupled sensor-actuator locations for ultrahigh accuracy positioning under large external loads. [10.1115/1.4027945]. *Journal of Dynamic Systems Measurement and Control*, 136(6), 1-12. doi: 10.1115/1.4027945
- Dizhur, D., Griffith, M., & Ingham, J. (2014). Out-of-plane strengthening of unreinforced masonry walls using near surface mounted fibre reinforced polymer strips. [10.1016/j.engstruct.2013.10.026]. *Engineering Structures*, 59(C), 330-343. doi: 10.1016/j.engstruct.2013.10.026
- Dizhur, D., Griffith, M. C., & Ingham, J. M. (2014). Pullout strength of NSM CFRP strips bonded to vintage clay brick masonry. [10.1016/j.engstruct.2014.02.006]. *Engineering Structures*, 69(C), 25-36. doi: 10.1016/j.engstruct.2014.02.006
- Dong, X., Soebarto, V., & Griffith, M. (2014). Achieving thermal comfort in naturally ventilated rammed earth houses. [10.1016/j.buildenv.2014.09.029]. *Building and Environment*, 82(C), 588-598. doi: 10.1016/j.buildenv.2014.09.029
- Dong, X., Soebarto, V., & Griffith, M. (2014). Design optimization of insulated cavity rammed earth walls for houses in Australia. [10.1016/j.enbuild.2014.11.014]. *Energy and Buildings*, 86, 852-863. doi: 10.1016/j.enbuild.2014.11.014
- Dong, X., Soebarto, V., & Griffith, M. (2014). Strategies for reducing heating and cooling loads of uninsulated rammed earth wall houses. [10.1016/j.enbuild.2014.03.031]. *Energy and Buildings*, 77(C), 323-331. doi: 10.1016/j.enbuild.2014.03.031
- Doubleday, Z., Harris, H., Izzo, C., & Gillanders, B. (2014). Strontium randomly substituting for calcium in fish otolith aragonite. [10.1021/ac4034278]. *Analytical Chemistry*, 86(1), 865-869. doi: 10.1021/ac4034278
- Dowd, P. A., Pardo-Igúzquiza, E., & Egozcue, J. J. (2014). The total bootstrap median: a robust and efficient estimator of location and scale for small samples. [10.1080/02664763.2014.999650]. *Journal of Applied Statistics*. doi: 10.1080/02664763.2014.999650
- Du, X., An, H., Jin, B., Meng, L., & Liu, Q. (2014). Carbon nanotubes altering specificity of repeated PCR and DNA integrity properties. [10.1166/jnn.2014.8874]. *Journal of Nanoscience and Nanotechnology*, 14(7), 5547-5551. doi: 10.1166/jnn.2014.8874
- Du, X., Shi, B., Tang, Y., Dai, S., & Qiao, S. (2014). Label-free dendrimer-like silica nanohybrids for traceable and controlled gene delivery. [10.1016/j.biomaterials.2014.03.051]. *Biomaterials*, 35(21), 5580-5590. doi: 10.1016/j.biomaterials.2014.03.051
- Du, X., Xiong, L., Dai, S., Kleitz, F., & Zhang Qiao, S. (2014). Intracellular microenvironment-responsive dendrimer-like mesoporous nanohybrids for traceable, effective, and safe gene delivery.

- [10.1002/adfm.201402408]. *Advanced Functional Materials*, 24(48), 7627-7637. doi: 10.1002/adfm.201402408
- Du, X., & Zhang Qiao, S. (2015). Dendritic silica particles with center-radial pore channels: Promising platforms for catalysis and biomedical applications. [10.1002/smll.201401201]. *Small*, 11(4), 392-413. doi: 10.1002/smll.201401201
- Du, Y., Kopittke, P. M., Noller, B. N., James, S. A., Harris, H. H., Xu, Z. P., Huang, L. (2015). In situ analysis of foliar zinc absorption and short-distance movement in fresh and hydrated leaves of tomato and citrus Using synchrotron-based X-ray fluorescence microscopy. [10.1093/aob/mcu212]. *Annals of Botany*, 115(1), 41-53. doi: 10.1093/aob/mcu212
- Duan, J., Chen, S., Dai, S., & Qiao, S. Z. (2014). Shape control of Mn₃O₄ nanoparticles on nitrogen-doped graphene for enhanced oxygen reduction activity. [10.1002/adfm.201302940]. *Advanced Functional Materials*, 24(14), 2072-2078. doi: 10.1002/adfm.201302940
- Eboibi, B. E., Lewis, D. M., Ashman, P. J., & Chinnasamy, S. (2014). Effect of operating conditions on yield and quality of biocrude during hydrothermal liquefaction of halophytic microalga *Tetraselmis* sp. [10.1016/j.biortech.2014.07.083]. *Bioresource Technology*, 170(C), 20-29. doi: 10.1016/j.biortech.2014.07.083
- Eboibi, B. E. O., Lewis, D. M., Ashman, P. J., & Chinnasamy, S. (2014). Hydrothermal liquefaction of microalgae for biocrude production: Improving the biocrude properties with vacuum distillation. [10.1016/j.biortech.2014.10.029]. *Bioresource Technology*, 174, 212-221. doi: 10.1016/j.biortech.2014.10.029
- Ergas, H., & Pincus, J. (2014). Have Mining Royalties Been Beneficial to Australia? [10.1111/1759-3441.12068]. *Economic Papers: A journal of applied economics and policy*, 33(1), 13-28. doi: 10.1111/1759-3441.12068
- Erkelens, M., Ball, A. S., & Lewis, D. M. (2014). The influence of protozoa with a filtered and non-filtered seawater culture of *Tetraselmis* sp., and effects to the bacterial and algal communities over 10days. [10.1016/j.biortech.2014.09.115]. *Bioresource Technology*, 173(C), 361-366. doi: 10.1016/j.biortech.2014.09.115
- Erkelens, M., Ball, A. S., & Lewis, D. M. (2014). The influences of the recycle process on the bacterial community in a pilot scale microalgae raceway pond. [10.1016/j.biortech.2014.02.056]. *Bioresource Technology*, 157(C), 364-367. doi: 10.1016/j.biortech.2014.02.056
- Erkelens, M., Ward, A. J., Ball, A. S., & Lewis, D. M. (2014). Microalgae digestate effluent as a growth medium for *Tetraselmis* sp. in the production of biofuels. [10.1016/j.biortech.2014.05.126]. *Bioresource Technology*, 167(C), 81-86. doi: 10.1016/j.biortech.2014.05.126
- Escoto-Rodriguez, M., Facelli, J. M., & Watling, J. R. (2014). Do wide crowns in arid woodland trees reflect hydraulic limitation and reduction of self-shading? [10.1071/FP14022]. *Functional Plant Biology*, 41(12), 1221-1229. doi: 10.1071/FP14022
- Etschmann, B., Brugger, J., Pearce, M. A., Ta, C., Brautigan, D., Jung, M., & Pring, A. (2014). Grain boundaries as microreactors during reactive fluid flow: experimental dolomitization of a calcite marble. [10.1007/s00410-014-1045-z]. *Contributions to Mineralogy and Petrology*, 168(2), 1045-1041-1045-1012. doi: 10.1007/s00410-014-1045-z
- Etschmann, B. E., Donner, E., Brugger, J., Howard, D. L., de Jonge, M. D., Paterson, D., Lombi, E. (2014). Speciation mapping of environmental samples using XANES imaging. [10.1071/EN13189]. *Environmental Chemistry*, 11(3), 341-350. doi: 10.1071/EN13189
- Evans, J. D., Huang, D. M., Hill, M. R., Sumbly, C. J., Thornton, A. W., & Doonan, C. J. (2014). Feasibility of mixed matrix membrane gas separations employing porous organic cages. [10.1021/jp4079184]. *The Journal of Physical Chemistry C*, 118(3), 1523-1529. doi: 10.1021/jp4079184
- Evans, J. D., Sumbly, C. J., & Doonan, C. J. (2014). Post-synthetic metalation of metal-organic frameworks. [10.1039/c4cs00076e]. *Chemical Society reviews*, 43(16), 5933-5951. doi: 10.1039/c4cs00076e
- Facelli, E., Duan, T., Smith, S. E., Christophersen, H. M., Facelli, J. M., & Smith, F. A. (2014). Opening the black box: outcomes of interactions between arbuscular mycorrhizal (AM) and non-host genotypes of *Medicago* depend on fungal identity, interplay between P uptake pathways and external P supply. [10.1111/pce.12237]. *Plant, Cell and Environment*, 37(6), 1382-1392. doi: 10.1111/pce.12237
- Feenstra, J., McGarvey, R., Linnane, A., Punt, A. E., & Bean, N. (2014). Environmental influences on daily commercial catch rates of South Australia's southern rock lobster (*Jasus edwardsii*). [10.1111/fog.12069]. *Fisheries Oceanography*, 23(4), 362-374. doi: 10.1111/fog.12069
- Fon Sing, M., Isdepsky, A., Borowitzka, M., & Lewis, D. (2014). Pilot-scale continuous recycling of growth medium for the mass culture of a halotolerant *Tetraselmis* sp. in raceway ponds under increasing salinity: A novel protocol for commercial microalgal biomass production.

- [10.1016/j.biortech.2014.03.010]. *Bioresource Technology*, 161(C), 47-54. doi: 10.1016/j.biortech.2014.03.010
- Forghani, A. A., Jafarian, M., Pendleton, P., & Lewis, D. M. (2014). Mathematical modelling of a hydrocracking reactor for triglyceride conversion to biofuel: Model establishment and validation. [10.1002/er.3244]. *International Journal of Energy Research*, 38(12), 1624-1634. doi: 10.1002/er.3244
- Gao, D., Lu, T. F., & Grainger, S. (2014). A new method of feature extraction and location derivation in vineyards using point clouds. [10.13031/aea.30.10309]. *Applied Engineering in Agriculture*, 30(2), 293-306. doi: 10.13031/aea.30.10309
- Gardeazabal Penuela, D., He, Z., & Kotooussov, A. (2014). On influence of non-singular stress states on brittle fracture. [10.1007/s10704-013-9903-7]. *International Journal of Fracture*, 185(1-2), 201-208. doi: 10.1007/s10704-013-9903-7
- George, G. N., Hackett, M. J., Sansone, M., Gorbaty, M. L., Kelemen, S. R., Prince, R. C., Pickering, I. J. (2014). Long-range chemical sensitivity in the sulfur K-edge x-ray absorption spectra of substituted thiophenes. [10.1021/jp505766f]. *Journal of Physical Chemistry A*, 118(36), 7796-7802. doi: 10.1021/jp505766f
- Ghanadi, F., Arjomandi, M., Cazzolato, B., & Zander, A. (2014). Interaction of a flow-excited Helmholtz resonator with a grazing turbulent boundary layer. [10.1016/j.expthermflusci.2014.06.016]. *Experimental Thermal and Fluid Science*, 58(C), 80-92. doi: 10.1016/j.expthermflusci.2014.06.016
- Ghanadi, F., Arjomandi, M., Cazzolato, B., & Zander, A. (2014). Understanding of the flow behaviour on a Helmholtz resonator excited by grazing flow. [10.1080/10618562.2014.922681]. *International Journal of Computational Fluid Dynamics*, 28(5), 219-231. doi: 10.1080/10618562.2014.922681
- Giongo, I., Wilson, A., Dizhur, D. Y., Derakhshan, H., Tomasi, R., Griffith, M. C., Ingham, J. M. (2014). Detailed seismic assessment and improvement procedure for vintage flexible timber diaphragms. *Bulletin of the New Zealand Society for Earthquake Engineering*, 47(2), 97-118.
- Glorie, S., De Grave, J., Buslov, M., Zhimulev, F., & Safonova, I. (2014). Detrital zircon provenance of early Palaeozoic sediments at the southwestern margin of the Siberian Craton: insights from U-Pb geochronology. [10.1016/j.jseaes.2013.12.007]. *Journal of Asian Earth Sciences*, 82(C), 115-123. doi: 10.1016/j.jseaes.2013.12.007
- Glorie, S., De Grave, J., Singh, T., Payne, J., & Collins, A. (2014). Crustal root of the Eastern Dharwar Craton: zircon U-Pb age and Lu-Hf isotopic evolution of the East Salem Block, southeast India. [10.1016/j.precamres.2014.05.017]. *Precambrian Research*, 249(C), 229-246. doi: 10.1016/j.precamres.2014.05.017
- Grigoli, F., Cesca, S., Krieger, L., Olcay, M., Tassara, C., Sobiesiak, M., & Dahm, T. (2014). Seismic Sensor orientation by complex linear least squares *European Geosciences Union General Assembly 2014*. Vienna, Austria.
- Gupta, S., & Glorie, S. (2014). International Association for Gondwana Research (IAGR) 2014 Annual Convention and 11th International Symposium on Gondwana to Asia: A report. [10.1016/j.gr.2014.10.011]. *Gondwana Research*, 27(2), 897-900. doi: 10.1016/j.gr.2014.10.011
- Hansberry, R. L., King, R., Collins, A. S., & Morley, C. K. (2014). Complex structure of an upper-level shale detachment zone: Khao Khwang fold and thrust belt, Central Thailand. [10.1016/j.jsg.2014.07.016]. *Journal of Structural Geology*, 67(PA), 140-153. doi: 10.1016/j.jsg.2014.07.016
- Hansen, K. L., Zajamsek, B., & Hansen, C. H. (2014). Identification of low frequency wind turbine noise using secondary windshields of various geometries. *Noise Control Engineering Journal*, 62(2), 69-82.
- Harada, T., McTernan, H. L., Pham, D. T., Lincoln, S. F., & Kee, T. W. (2014). Femtosecond transient absorption spectroscopy of the medicinal agent curcumin in diamide linked γ -cyclodextrin dimers. [10.1021/jp507272f]. *The journal of physical chemistry B, OnlinePubl(6)*, A-1. doi: 10.1021/jp507272f
- Harada, T., Pham, D. T., Lincoln, S. F., & Kee, T. W. (2014). The capture and stabilization of curcumin using hydrophobically modified polyacrylate aggregates and hydrogels. [10.1021/jp5060205]. *The Journal of Physical Chemistry B*, 118(31), 9515-9523. doi: 10.1021/jp5060205
- Hardi, J. S., Beinke, S. K., Oswald, M., & Dally, B. B. (2014). Coupling of cryogenic oxygen-hydrogen flames to longitudinal and transverse acoustic instabilities. [10.2514/1.B35003]. *Journal of Propulsion and Power*, 30(4), 991-1004. doi: 10.2514/1.B35003
- Hardi, J. S., Gomez Martinez, H. C., Oswald, M., & Dally, B. B. (2014). Lox jet atomization under transverse acoustic oscillations. [10.2514/1.B34979]. *Journal of Propulsion and Power*, 30(2), 337-349. doi: 10.2514/1.B34979
- Hartanto, Y., Yun, S., Jin, B., & Dai, S. (2015). Functionalized thermo-responsive microgels for high performance forward osmosis desalination. [10.1016/j.watres.2014.12.023]. *Water Research*, 70(C), 385-393. doi: 10.1016/j.watres.2014.12.023

10.1016/j.watres.2014.12.023

Hartono, S. B., Phuoc, N. T., Yu, M., Jia, Z., Monteiro, M. J., Qiao, S., & Yu, C. (2014). Functionalized large pore mesoporous silica nanoparticles for gene delivery featuring controlled release and co-delivery. [10.1039/c3tb21015d]. *Journal of Materials Chemistry B*, 2(6), 718-726. doi: 10.1039/c3tb21015d

Hartono, S. B., Yu, M., Gu, W., Yang, J., Strounina, E., Wang, X., Yu, C. (2014). Synthesis of multi-functional large pore mesoporous silica nanoparticles as gene carriers. [10.1088/0957-4484/25/5/055701]. *Nanotechnology*, 25(5). doi: 10.1088/0957-4484/25/5/055701

Hashemi, S., Momeni, A., & Melkounian, N. (2014). Investigation of borehole stability in poorly cemented granular formations by discrete element method. [10.1016/j.petrol.2013.11.031]. *Journal of Petroleum Science and Engineering*, 113(C), 23-35. doi: 10.1016/j.petrol.2013.11.031

He, Z., Kotousov, A., & Branco, R. (2014). A simplified method for the evaluation of fatigue crack front shapes under mode I loading. [10.1007/s10704-014-9955-3]. *International Journal of Fracture*, 188(2), 203-211. doi: 10.1007/s10704-014-9955-3

Henderson, B., Collins, A. S., Payne, J., Forbes, C., & Saha, D. (2014). Geologically constraining India in Columbia: The age, isotopic provenance and geochemistry of the protoliths of the Ongole Domain, Southern Eastern Ghats, India. [10.1016/j.gr.2013.09.002]. *Gondwana Research*, 26(3-4), 888-906. doi: 10.1016/j.gr.2013.09.002

Henderson-Sapir, O., Munch, J., & Ottaway, D. (2014). Mid-infrared fiber lasers at and beyond 3.5 μm using dual-wavelength pumping. [10.1364/OL.39.000493]. *Optics Letters*, 39(3), 493-496. doi:

10.1364/OL.39.000493

Higgs, K. E., Haese, R. R., Golding, S. D., Schacht, U., & Watson, M. N. (2015). The Pretty Hill Formation as a natural analogue for CO₂ storage: An investigation of mineralogical and isotopic changes associated with sandstones exposed to low, intermediate and high CO₂ concentrations over geological time. [10.1016/j.chemgeo.2014.10.019]. *Chemical Geology*, 399, 36-64. doi: 10.1016/j.chemgeo.2014.10.019

Hill, K., Guerin, G., Hill, B., & Watling, J. R. (2014). Temperature influences stomatal density and maximum potential water loss through stomata of *Dodonaea viscosa* subsp. *angustissima* along a latitude gradient in southern Australia. *Australian Journal of Botany*.

Hill, K. E., Hill, R. S., & Watling, J. R. (2015). Do CO₂, temperature, rainfall and elevation influence stomatal traits and leaf width in *Melaleuca lanceolata* across southern Australia? [10.1071/BT14300]. *AUSTRALIAN JOURNAL OF BOTANY*, 62(8), 666-673. doi: 10.1071/BT14300

Holford, S. P., Tuitt, A. K., Hillis, R. R., Green, P. F., Stoker, M. S., Duddy, I. R., Tassone, D. R. (2014). Cenozoic deformation in the Otway Basin, southern Australian margin: implications for the origin and nature of post-breakup compression at rifted margins. [10.1111/bre.12035]. *Basin Research*, 26(1), 10-37. doi: 10.1111/bre.12035

Hollis, C. A., He, X., & Sumbly, C. J. (2014). Ruthenium complexes of hexakis(cyanophenyl)[3]radialenes and their di(cyanophenyl)methane precursors: Synthesis, photophysical, and electrochemical properties. [10.1080/00958972.2014.915965]. *Journal of Coordination Chemistry*, 67(8), 1367-1379. doi: 10.1080/00958972.2014.915965

Hongrapipat, J., Yip, A. C. K., Marshall, A. T., Saw, W. L., & Pang, S. (2014). Investigation of simultaneous

removal of ammonia and hydrogen sulphide from producer gas in biomass gasification by titanomagnetite. [10.1016/j.fuel.2014.06.037]. *Fuel*, 135(C), 235-242. doi: 10.1016/j.fuel.2014.06.037

Horner, K., Schacht, U., & Haese, R. (2014). CO₂-water-rock reaction pathways during geological CO₂ storage in a low salinity, siliciclastic reservoir system *Australian Earth Sciences Convention*. Newcastle.

Horner, K. N., Schacht, U., & Haese, R. R. (2015). Characterizing long-term CO₂-water-rock reaction pathways to identify tracers of CO₂ migration during geological storage in a low-salinity, siliciclastic reservoir system. [10.1016/j.chemgeo.2014.09.021]. *Chemical Geology*, 399, 123-133. doi: 10.1016/j.chemgeo.2014.09.021

Hou, W., Shen, Y., Liu, H., Zhang, A., & Dai, S. (2014). Mechanical properties of pH-responsive poly(2-hydroxyethyl methacrylate/methacrylic acid) microgels prepared by inverse microemulsion polymerization. [10.1016/j.reactfunctpolym.2013.11.003]. *Reactive and Functional Polymers*, 74(1), 101-106. doi: 10.1016/j.reactfunctpolym.2013.11.003

Howard, C. (2014). Educators in Acoustics. *ACOUSTICS AUSTRALIA*, 42(1), 59-60.

Howard, C., & Craig, R. (2014). An adaptive quarter-wave tube that uses the sliding-Goertzel algorithm for estimation of phase. [10.1016/j.apacoust.2013.12.002]. *Applied Acoustics*, 78(C), 92-97. doi: 10.1016/j.apacoust.2013.12.002

Howard, C., & Craig, R. (2014). Noise reduction using a quarter wave tube with different orifice geometries. [10.1016/j.apacoust.2013.08.006]. *Applied Acoustics*, 76(C), 180-186. doi: 10.1016/j.apacoust.2013.08.006

- Hu, C., Sedghi, S., Madani, S. H., Silvestre-Albero, A., Sakamoto, H., Kwong, P., Biggs, M. J. (2014). Control of the pore size distribution and its spatial homogeneity in particulate activated carbon. [10.1016/j.carbon.2014.06.054]. *CARBON*, 78(C), 113-120. doi: 10.1016/j.carbon.2014.06.054
- Huang, A. C., Sumby, C. J., Tiekink, E. R. T., & Taylor, D. K. (2014). Synthesis of guaia-4(5)-en-11-ol, guaia-5(6)-en-11-ol, aciphyllene, 1-epi-melicodenones C and E, and other guaiane-type sesquiterpenoids via the diastereoselective epoxidation of guaial. [10.1021/np500611z]. *Journal of Natural Products*, 77(11), 2522-2536. doi: 10.1021/np500611z
- Huang, D. (2014). Computational study of P3HT/C₆₀-fullerene miscibility. [10.1071/CH13518]. *Australian Journal of Chemistry*, 67(4), 585-591. doi: 10.1071/CH13518
- Ingham, E., Cook, N., Cliff, J., Ciobanu, C., & Huddleston, A. (2014). A combined chemical, isotopic and microstructural study of pyrite from roll-front uranium deposits, Lake Eyre Basin, South Australia. [10.1016/j.gca.2013.10.017]. *Geochimica et Cosmochimica Acta*, 125(C), 440-465. doi: 10.1016/j.gca.2013.10.017
- Ismail, R., Ciobanu, C., Cook, N., Teale, G., Giles, D., Schmidt Mumm, A., & Wade, B. (2014). Rare earths and other trace elements in minerals from skarn assemblages, Hillside iron oxide-copper-gold deposit, Yorke Peninsula, South Australia. [10.1016/j.lithos.2013.07.023]. *Lithos*, 184-187(C), 456-477. doi: 10.1016/j.lithos.2013.07.023
- Ismail, R., Lin, Y., Ciobanu, C. L., & Cook, N. J. (2014). The Hillside Cu-Au Deposit, South Australia: A Preliminary Fluid Inclusion Study. [10.1111/1755-6724.12382_8]. *ACTA GEOLOGICA SINICA-ENGLISH EDITION*, 88, 1454-1456. doi: 10.1111/1755-6724.12382_8
- Jafarian, M., Arjomandi, M., & Nathan, G. J. (2014). The energetic performance of a novel hybrid solar thermal & chemical looping combustion plant. [10.1016/j.apenergy.2014.06.052]. *Applied Energy*, 132(C), 74-85. doi: 10.1016/j.apenergy.2014.06.052
- Jafarian, M., Arjomandi, M., & Nathan, G. J. (2014). Influence of the type of oxygen carriers on the performance of a hybrid solar chemical looping combustion system. [10.1021/ef402542b]. *Energy and Fuels*, 28(5), 2914-2924. doi: 10.1021/ef402542b
- Jafarian, S., Arjomandi, M., & Nathan, G. (2014). A hybrid solar chemical looping combustion system with a high solar share. [10.1016/j.apenergy.2014.03.071]. *Applied Energy*, 126(C), 69-77. doi: 10.1016/j.apenergy.2014.03.071
- Jiao, Y., Zheng, Y., Jaroniec, M., & Qiao, S. (2014). Origin of the electrocatalytic oxygen reduction activity of graphene-based catalysts: a roadmap to achieve the best performance. [10.1021/ja500432h]. *American Chemical Society Journal*, 136(11), 4394-4403. doi: 10.1021/ja500432h
- Jin, N., Jin, B., Zhu, N., Yuan, H., & Ruan, J. (2015). Disinhibition of excessive volatile fatty acids to improve the efficiency of autothermal thermophilic aerobic sludge digestion by chemical approach. [10.1016/j.biortech.2014.10.073]. *Bioresour. Technol.*, 175, 120-127. doi: 10.1016/j.biortech.2014.10.073
- Johnson, T. E., Clark, C., Taylor, R. J. M., Santosh, M., & Collins, A. S. (2014). Prograde and retrograde growth of monazite in migmatites: An example from the Nagercoil Block, southern India. [10.1016/j.gsf.2014.12.003]. *Geoscience Frontiers*. doi: 10.1016/j.gsf.2014.12.003
- Johnston, S. T., Simpson, M. J., McElwain, D. L. S., Binder, B. J., & Ross, J. V. (2014). Interpreting scratch assays using pair density dynamics and approximate Bayesian computation. [10.1098/rsob.140097]. *Open Biology*, 4(9), 140097-140099. doi: 10.1098/rsob.140097
- Kabiri, S., Kurkuri, M. D., Kumeria, T., & Losic, D. (2014). Frit-free PDMS microfluidic device for chromatographic separation and on-chip detection. [10.1039/c4ra01393j]. *RSC ADVANCES*, 4(29), 15276-15280. doi: 10.1039/c4ra01393j
- Kabiri, S., Tran, D. N. H., Altalhi, T., & Losic, D. (2014). Outstanding adsorption performance of graphene-carbon nanotube aerogels for continuous oil removal. [10.1016/j.carbon.2014.08.092]. *Carbon*, 80(1), 523-533. doi: 10.1016/j.carbon.2014.08.092
- Kadir, M. A., Mansor, N., Yusof, M. S. M., & Sumby, C. J. (2014). Synthesis and crystal structure of N-6-[(4-pyridylamino)carbonyl]-pyridine-2-carboxylic acid methyl ester zinc complex. [10.1080/2164232X.2014.883289]. *Complex Metals*, 1(1), 32-37. doi: 10.1080/2164232X.2014.883289
- Kakar, M. I., Kerr, A. C., Mahmood, K., Collins, A. S., Khan, M., & McDonald, I. (2014). Supra-subduction zone tectonic setting of the Muslim Bagh Ophiolite, northwestern Pakistan: Insights from geochemistry and petrology. [10.1016/j.lithos.2014.05.029]. *Lithos*, 202-203(C), 190-206. doi: 10.1016/j.lithos.2014.05.029
- Kalantariasl, A., & Bedrikovetski, P. (2014). Stabilization of external filter cake by colloidal forces in a "well-reservoir" system. [10.1021/ie402812y]. *Industrial & Engineering Chemistry Research*, 53(2), 930-944. doi: 10.1021/ie402812y
- Kalantariasl, A., Zeinijahromi, A., &

- Bedrikovetsky, P. (2014). Axi-symmetric two-phase suspension-colloidal flow in porous media during water injection. [10.1021/ie502312c]. *Industrial and Engineering Chemistry Research*, 53(40), 15763-15775. doi: 10.1021/ie502312c
- Kalantariasl, A., Zeinijahromi, A., & Bedrikovetsky, P. (2014). External filter cake buildup in dynamic filtration: Mechanisms and key factors. *SPE - European Formation Damage Conference, Proceedings, EFDC, 1*, 285-310.
- Kant, K., Kurkuri, M., Yu, J., Shapter, J. G., Priest, C., & Losic, D. (2014). Impedance spectroscopy study of nanopore arrays for biosensing applications. [10.1166/sam.2014.1807]. *Science of Advanced Materials*, 6(7), 1375-1381. doi: 10.1166/sam.2014.1807
- Kant, K., Priest, C., Shapter, J. G., & Losic, D. (2014). Characterization of impedance biosensing performance of single and nanopore arrays of anodic porous alumina fabricated by focused ion beam (FIB) milling. [10.1016/j.electacta.2014.07.023]. *Electrochimica Acta*, 139(C), 225-231. doi: 10.1016/j.electacta.2014.07.023
- Kant, K., Priest, C., Shapter, J. G., & Losic, D. (2014). The influence of nanopore dimensions on the electrochemical properties of nanopore arrays studied by impedance spectroscopy. [10.3390/s141121316]. *Sensors*, 14(11), 21316-21328. doi: 10.3390/s141121316
- Kant, K., Yu, J., Priest, C., Shapter, J., & Losic, D. (2014). Impedance nanopore biosensor: influence of pore dimensions on biosensing performance. [10.1039/c3an01933k]. *Analyst*, 139(5), 1134-1140. doi: 10.1039/c3an01933k
- Karakus, M., & Perez Ospina, S. (2014). Acoustic emission analysis for rock-bit interactions in impregnated diamond core drilling. [10.1016/j.ijrmms.2014.02.009]. *International Journal of Rock Mechanics and Mining Sciences*, 68(C), 36-43. doi: 10.1016/j.ijrmms.2014.02.009
- Kee, T. W. (2014). Femtosecond Pump-Push-Probe and Pump-Dump-Probe Spectroscopy of Conjugated Polymers: New Insight and Opportunities. [10.1021/jz501549h]. *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*, 5(18), 3231-3240. doi: 10.1021/jz501549h
- Kelsey, D. E., & Hand, M. (2014). On ultrahigh temperature crustal metamorphism: Phase equilibria, trace element thermometry, bulk composition, heat sources, timescales and tectonic settings. [10.1016/j.gsf.2014.09.006]. *Geoscience Frontiers*. doi: 10.1016/j.gsf.2014.09.006
- Keshavarz, A., Yang, Y., Badalyan, A., Johnson, R., & Bedrikovetsky, P. (2014). Laboratory-based mathematical modelling of graded proppant injection in CBM reservoirs. [10.1016/j.coal.2014.10.005]. *International Journal of Coal Geology*, 136, 1-16. doi: 10.1016/j.coal.2014.10.005
- Khanlari, G. R., Momeni, A., & Karakus, M. (2014). Assessment of Fatigue Behavior of Alvand Monzogranite. *Journal of Engineering Geology*, 8(1), 2003-2020.
- Khanna, A., & Kotousov, A. (2014). Stress analysis of a crack in a fiber-reinforced layered composite. [10.1016/j.compstruct.2014.07.024]. *Composite Structures*, 118(1), 139-148. doi: 10.1016/j.compstruct.2014.07.024
- Khanna, A., Neto, L. B., & Kotousov, A. (2014). Effect of residual opening on the inflow performance of a hydraulic fracture. [10.1016/j.ijengsci.2013.08.012]. *International Journal of Engineering Science*, 74(C), 80-90. doi: 10.1016/j.ijengsci.2013.08.012
- Kim, M. (2014). Active plasma layer manipulation scheme during hypersonic flight. [10.1016/j.ast.2014.03.008]. *Aerospace Science and Technology*, 35(1), 135-142. doi: 10.1016/j.ast.2014.03.008
- Kontonikas-Charos, A., Ciobanu, C. L., & Cook, N. J. (2014). Albitization and redistribution of REE and Y in IOCG systems: Insights from Moonta-Wallaroo, Yorke Peninsula, South Australia. [10.1016/j.lithos.2014.09.001]. *Lithos*, 208(C), 178-201. doi: 10.1016/j.lithos.2014.09.001
- Kordjazi, A., Pooya Nejad, F., & Jaksza, M. B. (2014). Prediction of ultimate axial load-carrying capacity of piles using a support vector machine based on CPT data. [10.1016/j.compgeo.2013.08.001]. *Computers and Geotechnics*, 55(C), 91-102. doi: 10.1016/j.compgeo.2013.08.001
- Korja, T., Heinson, G., & Thiel, S. (2014). Preface to the Special Issue on "The 21st Electromagnetic Induction Workshop". [10.1007/s10712-013-9271-x]. *Surveys in Geophysics*, 35(1), 1-6. doi: 10.1007/s10712-013-9271-x
- Kotousov, A. (2014). Recent Advances in Structural Integrity Analysis: Proceedings of the International Congress (APCF/SIF-2014) *The APCF/SIF-2014 Congress uniting: Asian-Pacific Conference on Fracture and Strength (APCFS-2014) International Conference on Structural Integrity and Failure (SIF-2014)*. University of Sydney, Australia.
- Kotousov, A., Bortolan Neto, L., & Khanna, A. (2014). On a rigid inclusion pressed between two elastic half spaces. [10.1016/j.mechmat.2013.08.004]. *Mechanics of Materials*, 68(C), 38-44. doi: 10.1016/j.mechmat.2013.08.004
- Kotousov, A., & Chang, D. (2014). Local plastic collapse conditions for a

- plate weakened by two closely spaced collinear cracks. [10.1016/j.engfracmech.2014.05.009]. *Engineering Fracture Mechanics*, 127(C), 1-11. doi: 10.1016/j.engfracmech.2014.05.009
- Krieger, L., Peacock, J., Thiel, S., Inverarity, K., Kirkby, A., Robertson, K., Didana, Y. (2014). MTpy - Python Tools for Magnetotelluric Data Processing and Analysis *EGU General Assembly*. Vienna, Austria.
- Krieger, L., & Peacock, J. R. (2014). MTpy: A Python toolbox for magnetotellurics. [10.1016/j.cageo.2014.07.013]. *Computers and Geosciences*, 72(C), 167-175. doi: 10.1016/j.cageo.2014.07.013
- Krieger, L. U., Peacock, J., Kirkby, A., Thiel, S., Didana, Y., Inverarity, K., MacFarlane, J. (2014). MTpy - Python tools for magnetotelluric data processing and analysis *22nd EM Induction Workshop. 2014*. Weimar, Germany.
- Kumeria, T., Rahman, M. M., Santos, A., Ferré-Borrull, J., Marsal, L. F., & Losic, D. (2014). Nanoporous anodic alumina rugate filters for sensing of ionic mercury: toward environmental point-of-analysis systems. [10.1021/am502882d]. *ACS Applied Materials and Interfaces*, 6(15), 12971-12978. doi: 10.1021/am502882d
- Kumeria, T., Rahman, M. M., Santos, A., Ferré-Borrull, J., Marsal, L. F., & Losic, D. (2014). Structural and optical nanoengineering of nanoporous anodic alumina rugate filters for real-time and label-free biosensing applications. [10.1021/ac500069f]. *Analytical Chemistry*, 86(3), 1837-1844. doi: 10.1021/ac500069f
- Kumeria, T., Santos, A., & Losic, D. (2014). Nanoporous anodic alumina platforms: engineered surface chemistry and structure for optical sensing applications. [10.3390/s140711878]. *Sensors*, 14(7), 11878-11918. doi: 10.3390/s140711878
- Kumeria, T., Santos, A., Rahman, M. M., Ferré-Borrull, J., Marsal, L. F., & Losic, D. (2014). Advanced Structural Engineering of Nanoporous Photonic Structures: Tailoring Nanopore Architecture to Enhance Sensing Properties. [10.1021/ph500316u]. *ACS Photonics*, 1(12), 1298-1306. doi: 10.1021/ph500316u
- Landman, K. A., Binder, B. J., & Newgreen, D. F. (2014). Modeling development and disease in the enteric nervous system. *Journal of Cellular Automata*, 9(2-3), 95-109.
- Lane, D. J., Ashman, P. J., Zevenhoven, M., Hupa, M., Van Eyk, P. J., De Nys, R., Lewis, D. M. (2014). Combustion behavior of algal biomass: Carbon release, nitrogen release, and char reactivity. [10.1021/ef4014983]. *Energy and Fuels*, 28(1), 41-51. doi: 10.1021/ef4014983
- Lane, D. J., Zevenhoven, M., Ashman, P. J., Van Eyk, P. J., Hupa, M., De Nys, R., & Lewis, D. M. (2014). Algal biomass: Occurrence of the main inorganic elements and simulation of ash interactions with bed material. [10.1021/ef500989n]. *Energy and Fuels*, 28(7), 4622-4632. doi: 10.1021/ef500989n
- Laratro, A., Arjomandi, M., Kelso, R., & Cazzolato, B. (2014). A discussion of wind turbine interaction and stall contributions to wind farm noise. [10.1016/j.jweia.2014.01.007]. *Journal of Wind Engineering and Industrial Aerodynamics*, 127(C), 1-10. doi: 10.1016/j.jweia.2014.01.007
- Lau, T. C. W., & Nathan, G. J. (2014). Influence of Stokes number on the velocity and concentration distributions in particle-laden jets. [10.1017/jfm.2014.496]. *Journal of Fluid Mechanics*, 757(6), 432-457. doi: 10.1017/jfm.2014.496
- Lawless, I. M., Ding, B., Cazzolato, B. S., & Costi, J. J. (2014). Adaptive velocity-based six degree of freedom load control for real-time unconstrained biomechanical testing. [10.1016/j.jbiomech.2014.06.023]. *Journal of Biomechanics*, 47(12), 3241-3247. doi: 10.1016/j.jbiomech.2014.06.023
- Le Heron, D. P., Busfield, M. E., & Collins, A. S. (2014). Bolla Bollana boulder beds: A Neoproterozoic trough mouth fan in South Australia? [10.1111/sed.12082]. *Sedimentology*, 61(4), 978-995. doi: 10.1111/sed.12082
- Lee, A. K., Lewis, D. M., & Ashman, P. J. (2014). Microalgal cell disruption by hydrodynamic cavitation for the production of biofuels. [10.1007/s10811-014-0483-3]. *Journal of Applied Phycology*. doi: 10.1007/s10811-014-0483-3
- Li, P., Wang, F., Mi, J., Dally, B., & Mei, Z. (2014). MILD combustion under different premixing patterns and characteristics of the reaction regime. [10.1021/ef402357t]. *Energy & Fuels*, 28(3), 2211-2226. doi: 10.1021/ef402357t
- Li, P., Wang, F., Mi, J., Dally, B. B., Mei, Z., Zhang, J., & Parente, A. (2014). Mechanisms of NO formation in MILD combustion of CH₄/H₂ fuel blends. [10.1016/j.ijhydene.2014.09.050]. *International Journal of Hydrogen Energy*, 39(33), 19187-19203. doi: 10.1016/j.ijhydene.2014.09.050
- Li, X., Liu, H., Yang, J., Qiao, S., & Du, X. (2014). Pure gold nanocages by galvanic replacement reaction of magnesium nanoparticles. [10.1039/C3RA45995K]. *RSC Advances*, 4(3), 1185-1188. doi: 10.1039/C3RA45995K
- Li, X. J., Xing, W., Zhou, J., Wang, G. Q., Zhuo, S. P., Yan, Z. F., Qiao, S. Z. (2014). Excellent capacitive performance of a three-dimensional hierarchical porous graphene/carbon composite with a superhigh surface area. [10.1002/chem.201402897]. *Chemistry - A European Journal*,

- 20(41), 13314-13320. doi: 10.1002/chem.201402897
- Liang, J., Zhou, R. F., Chen, X. M., Tang, Y. H., & Qiao, S. Z. (2014). Fe-N decorated hybrids of CNTs grown on hierarchically porous carbon for high-performance oxygen reduction. [10.1002/adma.201401848]. *Advanced Materials*, 26(35), 6074-6079. doi: 10.1002/adma.201401848
- Ling, T., Kulinich, S. A., Zhu, Z. L., Qiao, S. Z., & Du, X. W. (2014). Highly conductive CdS inverse opals for photochemical solar cells. [10.1002/adfm.201300734]. *Advanced Functional Materials*, 24(5), 707-715. doi: 10.1002/adfm.201300734
- Liu, T., Liu, L., Liu, J., Liu, S., & Qiao, S. Z. (2014). Fe₃O₄ encapsulated mesoporous silica nanospheres with tunable size and large void pore. [10.1007/s11705-014-1413-2]. *Frontiers of Chemical Science and Engineering*, 8(1), 114-122. doi: 10.1007/s11705-014-1413-2
- Liu, W., Etschmann, B., Testemale, D., Hazemann, J. L., Rempel, K., Muller, H., & Brugger, J. (2014). Gold transport in hydrothermal fluids: competition among the Cl-, Br-, HS- and NH₃(aq) ligands. [10.1016/j.chemgeo.2014.03.012]. *Chemical Geology*, 376(C), 11-19. doi: 10.1016/j.chemgeo.2014.03.012
- Liu, Y., Zhang, J., Deo, R., Mi, J., Nathan, G. J., & Zhu, R. (2014). Influence of sidewalls on the centerline small-scale turbulence of a turbulent high-aspect-ratio rectangular jet. [10.1016/j.expthermflusci.2014.06.021]. *Experimental Thermal and Fluid Science*, 58(C), 139-144. doi: 10.1016/j.expthermflusci.2014.06.021
- Lockington, J. A., Cook, N. J., & Ciobanu, C. L. (2014). Trace and minor elements in sphalerite from metamorphosed sulphide deposits. [10.1007/s00710-014-0346-2]. *Mineralogy and Petrology*, 108(6), 873-890. doi: 10.1007/s00710-014-0346-2
- Losic, D., Aw, M. S., Santos, A., Gulati, K., & Bariana, M. (2015). Titania nanotube arrays for local drug delivery: Recent advances and perspectives. [10.1517/17425247.2014.945418]. *Expert Opinion on Drug Delivery*, 12(1), 103-127. doi: 10.1517/17425247.2014.945418
- Lu, T., Goh, A. W., Yu, M., Adams, J., Lam, F., Teo, T., Wang, S. (2014). Discovery of (E)-3-((Styrylsulfonyl) methyl) pyridine and (E)-2-((Styrylsulfonyl) methyl) pyridine Derivatives as Anticancer Agents: Synthesis, Structure–Activity Relationships, and Biological Activities. [10.1021/jm4019614]. *Journal of Medicinal Chemistry*, 57(6), 2275-2291. doi: 10.1021/jm4019614
- Ma, T. Y., Dai, S., Jaroniec, M., & Qiao, S. Z. (2014). Graphitic carbon nitride nanosheet-carbon nanotube three-dimensional porous composites as high-performance oxygen evolution electrocatalysts. [10.1002/anie.201403946]. *Angewandte Chemie - International Edition*, 53(28), 7281-7285. doi: 10.1002/anie.201403946
- Ma, T. Y., Dai, S., Jaroniec, M., & Qiao, S. Z. (2014). Metal–organic framework derived hybrid Co₃O₄-carbon porous nanowire arrays as reversible oxygen evolution electrodes. [10.1021/ja5082553]. *Journal of the American Chemical Society*, 136(39), 13925-13931. doi: 10.1021/ja5082553
- Ma, T. Y., Dai, S., Jaroniec, M., & Qiao, S. Z. (2014). Synthesis of highly active and stable spinel-type oxygen evolution electrocatalysts by a rapid inorganic self-templating method. [10.1002/chem.201403946]. *Chemistry - A European Journal*, 20(39), 12669-12676. doi: 10.1002/chem.201403946
- Ma, T. Y., & Qiao, S. Z. (2014). Acid-base bifunctional periodic mesoporous metal phosphonates for synergistically and heterogeneously catalyzing CO₂ conversion. [10.1021/cs501124d]. *ACS Catalysis*, 4(11), 3847-3855. doi: 10.1021/cs501124d
- Ma, T. Y., Ran, J., Dai, S., Jaroniec, M., & Qiao, S. Z. (2014). Phosphorus-Doped Graphitic Carbon Nitrides Grown in Situ on Carbon-Fiber Paper: Flexible and Reversible Oxygen Electrodes. [10.1002/anie.201411125]. *Angewandte Chemie - International Edition*, 54(15), 4646-4650. doi: 10.1002/anie.201411125
- Ma, T. Y., Tang, Y., Dai, S., & Qiao, S. Z. (2014). Proton-functionalized two-dimensional graphitic carbon nitride nanosheet: An excellent metal-/label-free biosensing platform. [10.1002/smll.201303827]. *Small*, 10(12), 2382-2389. doi: 10.1002/smll.201303827
- Ma, T. Y., Zheng, Y., Dai, S., Jaroniec, M., & Qiao, S. Z. (2014). Mesoporous MnCo₂O₄ with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. [10.1039/c4ta01672f]. *JOURNAL OF MATERIALS CHEMISTRY A*, 2(23), 8676-8682. doi: 10.1039/c4ta01672f
- MacFarlane, J., Thiel, S., Pek, J., Peacock, J., & Heinson, G. (2014). Characterisation of induced fracture networks within an enhanced geothermal system using anisotropic electromagnetic modelling. [10.1016/j.jvolgeores.2014.10.002]. *Journal of Volcanology and Geothermal Research*, 288, 1-7. doi: 10.1016/j.jvolgeores.2014.10.002
- Mahmoud, S. M., Nathan, G. J., Medwell, P. R., Dally, B. B., & Alwahabi, Z. T. (2014). Simultaneous planar measurements of temperature and soot volume fraction in a turbulent non-premixed jet flame. [10.1016/j.proci.2014.06.122]. *Proceedings of the Combustion Institute*, 35(2), 1931-1938. doi: 10.1016/j.proci.2014.06.122

- Mahony, D., Cavallaro, A. S., Mody, K. T., Xiong, L., Mahony, T. J., Qiao, S. Z., & Mitter, N. (2014). In vivo delivery of bovine viral diarrhoea virus, E2 protein using hollow mesoporous silica nanoparticles. [10.1039/c4nr01202j]. *Nanoscale*, 6(12), 6617-6626. doi: 10.1039/c4nr01202j
- Marquez, M., Williams, W., Knobles, M., Bedrikovetsky, P., & You, Z. (2014). Fines migration in fractured wells: Integrating modeling with field and laboratory data. *SPE Production and Operations*, 29(4), 309-322.
- Massey, T., Fernie, A., Ainsworth, R., Nanson, R., & Vakarelov, B. (2014). Detailed mapping, three-dimensional modelling and upscaling of a mixed-influence delta system, Mitchell River delta, Gulf of Carpentaria, Australia. [10.1144/SP387.4]. *Geological Society Special Publication*, 387(1), 135-151. doi: 10.1144/SP387.4
- McCalman, L., O'Callaghan, S. T., Reid, A., Shen, D., Krieger, L., Carter, S., Ramos, F. T. (2014). Joint distributed Bayesian inversions of geophysical data 22nd EM Induction Workshop. Weimar, Germany.
- Medwell, P., Blunck, D., & Dally, B. (2014). The role of precursors on the stabilisation of jet flames issuing into a hot environment. [10.1016/j.combustflame.2013.08.028]. *Combustion and Flame*, 161(2), 465-474. doi: 10.1016/j.combustflame.2013.08.028
- Medwell, P. R., Masri, A. R., Pham, P. X., Dally, B. B., & Nathan, G. J. (2014). Temperature imaging of turbulent dilute spray flames using two-line atomic fluorescence. [10.1007/s00348-014-1840-3]. *Experiments in Fluids*, 55(11). doi: 10.1007/s00348-014-1840-3
- Mei, Y., Liu, W., Sherman, D. M., & Brugger, J. (2014). Metal complexation and ion hydration in low density hydrothermal fluids: Ab initio molecular dynamics simulation of Cu(I) and Au(I) in chloride solutions (25-1000°C, 1-5000bar). [10.1016/j.gca.2014.01.033]. *Geochimica et Cosmochimica Acta*, 131(C), 196-212. doi: 10.1016/j.gca.2014.01.033
- Mellati, A., Dai, S., Bi, J., Jin, B., & Zhang, H. (2014). A biodegradable thermosensitive hydrogel with tuneable properties for mimicking three-dimensional microenvironments of stem cells. [10.1039/c4ra12215a]. *RSC Advances*, 4(109), 63951-63961. doi: 10.1039/c4ra12215a
- Milović, M., Simović, S., Lošić, D., Dashevskiy, A., & Ibrić, S. (2014). Solid self-emulsifying phospholipid suspension (SSEPS) with diatom as a drug carrier. [10.1016/j.ejps.2014.07.010]. *European Journal of Pharmaceutical Sciences*, 63(C), 226-232. doi: 10.1016/j.ejps.2014.07.010
- Mimani, A., Doolan, C. J., & Medwell, P. R. (2014). Enhancing the focal-resolution of aeroacoustic time-reversal using a point sponge-layer damping technique. [10.1121/1.4890204]. *JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA*, 136(3), 199-205. doi: 10.1121/1.4890204
- Mirsepahi, A., Chen, L., & O'Neill, B. (2014). A comparative approach of inverse modelling applied to an irradiative batch dryer employing several artificial neural networks. [10.1016/j.icheatmasstransfer.2014.02.028]. *International Communications in Heat and Mass Transfer*, 53(C), 164-173. doi: 10.1016/j.icheatmasstransfer.2014.02.028
- Moazen Ahmadi, A., Petersen, D., & Howard, C. (2014). A nonlinear dynamic vibration model of defective bearings - The importance of modelling the finite size of rolling elements. [10.1016/j.ymsp.2014.06.006]. *Mechanical Systems and Signal Processing*, In press(C), 309-326. doi: 10.1016/j.ymsp.2014.06.006
- Mody, K., Mahony, D., Cavallaro, A., Stahr, F., Qiao, S., Mahony, T., & Mitter, N. (2014). Freeze-drying of ovalbumin loaded mesoporous silica nanoparticle vaccine formulation increases antigen stability under ambient conditions. [10.1016/j.ijpharm.2014.01.037]. *International Journal of Pharmaceutics*, 465(1-2), 325-332. doi: 10.1016/j.ijpharm.2014.01.037
- Moon, L., Dizhur, D., Senaldi, I., Derakhshan, H., Griffith, M., Magenes, G., & Ingham, J. (2014). The demise of the URM building stock in Christchurch during the 2010-2011 Canterbury earthquake sequence. [10.1193/022113EQS044M]. *Earthquake Spectra*, 30(1), 253-276. doi: 10.1193/022113EQS044M
- Moreau, D., & Doolan, C. J. (2014). The flow-induced sound of a wall-mounted finite airfoil. [10.1121/1.4877971]. *J Acoust Soc Am*, 135(4), 2406. doi: 10.1121/1.4877971
- Moridi, M. A., Kawamura, Y., Sharifzadeh, M., Chanda, E. K., & Jang, H. (2014). An investigation of underground monitoring and communication system based on radio waves attenuation using ZigBee. [10.1016/j.tust.2014.05.011]. *Tunnelling and Underground Space Technology*, 43(C), 362-369. doi: 10.1016/j.tust.2014.05.011
- Morrison, D. E., Aitken, J. B., De Jonge, M. D., Ioppolo, J. A., Harris, H. H., & Rendina, L. M. (2014). High mitochondrial accumulation of new gadolinium(III) agents within tumour cells. [10.1039/c3cc46903d]. *Chemical Communications*, 50(18), 2252-2254. doi: 10.1039/c3cc46903d
- Morrison, D. E., Aitken, J. B., de Jonge, M. D., Issa, F., Harris, H. H., & Rendina, L. M. (2014). Synthesis and Biological Evaluation of a Class of Mitochondrially-Targeted Gadolinium(III) Agents. [10.1002/chem.201404107].

CHEMISTRY-A EUROPEAN

JOURNAL, 20(50), 16602-16612. doi: 10.1002/chem.201404107

Morrissey, L., Hand, M., Raimondo, T., & Kelsey, D. (2014). Long-lived high-T, low-P granulite facies metamorphism in the Arunta Region, central Australia. [10.1111/jmg.12056]. *Journal of Metamorphic Geology*, 32(1), 25-47. doi: 10.1111/jmg.12056

Motheau, E., Nicoud, F., & Poinso, T. (2014). Mixed acoustic-entropy combustion instabilities in gas turbines. [10.1017/jfm.2014.245]. *Journal of Fluid Mechanics*, 749, 542-576. doi: 10.1017/jfm.2014.245

Motheau, E., Selle, L., & Nicoud, F. (2014). Accounting for convective effects in zero-Mach-number thermoacoustic models. [10.1016/j.jsv.2013.08.046]. *Journal of Sound and Vibration*, 333(1), 246-262. doi: 10.1016/j.jsv.2013.08.046

Mwandila, G., Pang, S., & Saw, W. (2014). Semiempirical determination of overall volumetric molar transfer coefficient for the scrubbing of gaseous tars in biodiesel. [10.1021/ie401823r]. *Industrial & Engineering Chemistry Research*, 53(11), 4424-4428. doi: 10.1021/ie401823r

Nakamura, Y., Derakhshan, H., Ingham, J., & Griffith, M. (2014). Seismic analysis of in-plane loaded walls in unreinforced masonry buildings with flexible diaphragms. *Bulletin of the New Zealand Society for Earthquake Engineering*, 47(4), 275-289.

Nanson, R. A., & Cohen, T. J. (2014). Headwater peatland channels in south-eastern Australia; the attainment of equilibrium. [10.1016/j.geomorph.2013.11.011]. *Geomorphology*, 212(C), 72-83. doi: 10.1016/j.geomorph.2013.11.011

Natarajan, N., Xu, C., Dowd, P. A., & Hand, M. (2014). Numerical modelling

of thermal transport and quartz precipitation/dissolution in a coupled fracture-skin-matrix system. [10.1016/j.ijheatmasstransfer.2014.06.085]. *International Journal of Heat and Mass Transfer*, 78(C), 302-310. doi: 10.1016/j.ijheatmasstransfer.2014.06.085

Nathan, G., Battye, D., & Ashman, P. (2014). Economic evaluation of a novel fuel-saver hybrid combining a solar receiver with a combustor for a solar power tower. [10.1016/j.apenergy.2013.08.079]. *Applied Energy*, 113(C), 1235-1243. doi: 10.1016/j.apenergy.2013.08.079

Nettle, D., Halverson, G. P., Cox, G. M., Collins, A. S., Schmitz, M., Gehling, J., Kadi, K. (2014). A middle-late Ediacaran volcano-sedimentary record from the eastern Arabian-Nubian shield. [10.1111/ter.12077]. *Terra Nova*, 26(2), 120-129. doi: 10.1111/ter.12077

Nguyen, L. A. T., Ward, A. J., & Lewis, D. M. (2014). Utilisation of turbidity as an indicator for biochemical and chemical oxygen demand. [10.1016/j.jwpe.2014.09.009]. *Journal of Water Process Engineering*, 4, 137-142. doi: 10.1016/j.jwpe.2014.09.009

Nielsen, L., Biggs, M. J., Skinner, W., & Bandosz, T. J. (2014). The effects of activated carbon surface features on the reactive adsorption of carbamazepine and sulfamethoxazole. [10.1016/j.carbon.2014.08.081]. *Carbon*, 80(1), 419-432. doi: 10.1016/j.carbon.2014.08.081

Okrugin, V. M., Andreeva, E., Etschmann, B., Pring, A., Li, K., Zhao, J., Brugger, J. (2014). Microporous gold: Comparison of textures from nature and experiments. [10.2138/am.2014.4792]. *American Mineralogist*, 99(5-6), 1171-1174. doi: 10.2138/am.2014.4792

Oliveira, M. A., Vaz, A. S. L., Siqueira,

F. D., Yang, Y., You, Z., & Bedrikovetsky, P. (2014). Slow migration of mobilised fines during flow in reservoir rocks: Laboratory study. [10.1016/j.petrol.2014.08.019]. *Journal of Petroleum Science and Engineering*, 122, 534-541. doi: 10.1016/j.petrol.2014.08.019

Orandi, S. (2014). An Investigation On Community Dynamics Of Acidophilic Micro-Algae Exploited For Phyto-Remediation of Acid Mine Drainage ISAP2014. Sydney.

Penna, M. J., Mijajlovic, M., & Biggs, M. J. (2014). Molecular-level understanding of protein adsorption at the interface between water and a strongly interacting uncharged solid surface. [10.1021/ja411796e]. *Journal of the American Chemical Society*, 136(14), 5323-5331. doi: 10.1021/ja411796e

Pincus, J. J. (2014). Public choice theory had negligible effect on Australian microeconomic policy, 1970s to 2000s. *History of Economics Review*(59), 82-93.

Plavsa, D., Collins, A. S., Payne, J. L., Foden, J. D., Clark, C., & Santosh, M. (2014). Detrital zircons in basement metasedimentary protoliths unveil the origins of southern India. [10.1130/B30977.1]. *Bulletin of the Geological Society of America*, 126(5-6), 791-812. doi: 10.1130/B30977.1

Porteous, R., Moreau, D. J., & Doolan, C. J. (2014). A review of flow-induced noise from finite wall-mounted cylinders. [10.1016/j.jfluidstructs.2014.08.012]. *Journal of Fluids and Structures*, 51, 240-254. doi: 10.1016/j.jfluidstructs.2014.08.012

Pound, L. M., Ainsley, P. J., & Facelli, J. M. (2014). Dormancy-breaking and germination requirements for seeds of *Acacia papyrocarpa*, *Acacia oswaldii* and *Senna artemisioides* ssp. *xcoriacea*, three Australian arid-zone Fabaceae species. [10.1071/BT14077]. *Australian*

- Journal of Botany*, 62(7), 546-557. doi: 10.1071/BT14077
- Qi, G., Nathan, G. J., & Kelso, R. M. (2014). The influence of aspect ratio on distributions of settling velocities and orientations of long fibres. [10.1016/j.powtec.2014.02.050]. *Powder Technology*, 257(C), 192-197. doi: 10.1016/j.powtec.2014.02.050
- Raimondo, T., Hand, M., & Collins, W. J. (2014). Compressional intracontinental orogens: Ancient and modern perspectives. [10.1016/j.earscirev.2013.11.009]. *Earth-Science Reviews*, 130(C), 128-153. doi: 10.1016/j.earscirev.2013.11.009
- Ran, J., Zhang, J., Yu, J., Jaroniec, M., & Qiao, S. Z. (2014). Earth-abundant cocatalysts for semiconductor-based photocatalytic water splitting. [10.1039/c3cs60425j]. *Chemical Society Reviews*, 43(22), 7787-7812. doi: 10.1039/c3cs60425j
- Ran, J., Zhang, J., Yu, J., & Qiao, S. Z. (2014). Enhanced visible-light photocatalytic H₂ production by ZnxCd1-xS modified with earth-abundant nickel-based cocatalysts. [10.1002/cssc.201402574]. *ChemSusChem*, 7(12), 3426-3434. doi: 10.1002/cssc.201402574
- Rankine, D., Keene, T. D., Doonan, C. J., & Sumbly, C. J. (2014). Reprogramming Kinetic Phase Control and Tailoring Pore Environments in Co-II and Zn-II Metal-Organic Frameworks. [10.1021/c95009785]. *CRYSTAL GROWTH & DESIGN*, 14(11), 5710-5718. doi: 10.1021/c95009785
- Rankine, D., Keene, T. D., Doonan, C. J., & Sumbly, C. J. (2014). Reprogramming kinetic phase control and tailoring pore environments in Colland ZnII metal-organic frameworks. [10.1021/cg500978s]. *Crystal Growth and Design*, 14(11), 5710-5718. doi: 10.1021/cg500978s
- Rees, N., Krieger, L., & Heinson, G. (2014). Magnetotelluric monitoring of coal seam gas depressurisation 22nd *EM Induction Workshop*. Weimar, Germany.
- Reith, F., Campbell, S. G., Ball, A. S., Pring, A., & Southam, G. (2014). Platinum in Earth surface environments. [10.1016/j.earscirev.2014.01.003]. *Earth-Science Reviews*, 131(C), 1-21. doi: 10.1016/j.earscirev.2014.01.003
- Restrepo Velez, L., Magenes, G., & Griffith, M. (2014). Dry stone masonry walls in bending - Part I: static tests. [10.1080/15583058.2012.663059]. *International Journal of Architectural Heritage: conservation, analysis, and restoration*, 8(1), 1-28. doi: 10.1080/15583058.2012.663059
- Robertson, K., Taylor, D., Thiel, S., & Heinson, G. (2014). Magnetotelluric evidence for serpentinisation in a Cambrian subduction zone beneath the Delamerian Orogen, southeast Australia. [10.1016/j.gr.2014.07.013]. *Gondwana Research*. doi: 10.1016/j.gr.2014.07.013
- Robertson, W. S. P., Cazzolato, B., & Zander, A. (2014). Horizontal stability of a quasi-zero stiffness mechanism using inclined linear springs. *ACOUSTICS AUSTRALIA*, 42(1), 8-13.
- Robinson, F. A., Foden, J. D., Collins, A. S., & Payne, J. L. (2014). Arabian Shield magmatic cycles and their relationship with Gondwana assembly: Insights from zircon U-Pb and Hf isotopes. [10.1016/j.epsl.2014.10.010]. *Earth and Planetary Science Letters*, 408, 207-225. doi: 10.1016/j.epsl.2014.10.010
- Rodriguez Molares, A., Howard, C., & Zander, A. (2014). Determination of biomass concentration by measurement of ultrasonic attenuation. [10.1016/j.apacoust.2014.02.008]. *Applied Acoustics*, 81(C), 26-30. doi: 10.1016/j.apacoust.2014.02.008
- Rodriguez-Molares, A., Dickson, S., Hobson, P., Howard, C., Zander, A., & Burch, M. (2014). Quantification of the ultrasound induced sedimentation of *Microcystis aeruginosa*. [10.1016/j.ultsonch.2014.01.027]. *Ultrasonics Sonochemistry*, 21(4), 1299-1304. doi: 10.1016/j.ultsonch.2014.01.027
- Ross, J. V., & Binder, B. J. (2014). Approximating spatially exclusive invasion processes. *Physical review. E, Statistical, nonlinear, and soft matter physics*, 89(5), 052709.
- Ross, J. V., & Binder, B. J. (2014). Approximating spatially exclusive invasion processes. [10.1103/PhysRevE.89.052709]. *PHYSICAL REVIEW E*, 89(5), 1-7. doi: 10.1103/PhysRevE.89.052709
- Rosser, A., & Curnow, J. (2014). Legal Mobilisation and Justice: Insights from the Constitutional Court Case on International Standard Schools in Indonesia. [10.1080/14442213.2014.916341]. *Asia Pacific Journal of Anthropology*, 15(4), 302-318. doi: 10.1080/14442213.2014.916341
- Rostamzadeh, N., Hansen, K. L., Kelso, R. M., & Dally, B. B. (2014). The formation mechanism and impact of streamwise vortices on NACA 0021 airfoil's performance with undulating leading edge modification. [10.1063/1.4896748]. *Physics of Fluids*, 26(10), 1-22. doi: 10.1063/1.4896748
- Ruan, Y., Boyd, K., Ji, H., Ebendorff-Heidepriem, H., Munch, J., & Monro, T. (2014). Tellurite microspheres for nanoparticle sensing and novel light sources. [10.1364/OE.22.011995]. *Optics Express*, 22(10), 11995-12006. doi: 10.1364/OE.22.011995
- Saha, M., Dally, B. B., Medwell, P. R., & Cleary, E. M. (2014). Moderate or Intense Low Oxygen Dilution (MILD) Combustion Characteristics of Pulverized Coal in a Self-Recuperative Furnace.

- [10.1021/ef5006836]. *ENERGY & FUELS*, 28(9), 6046-6057. doi: 10.1021/ef5006836
- Salmachi, A., Bonyadi, M. R., Sayyafzadeh, M., & Haghghi, M. (2014). Identification of potential locations for well placement in developed coalbed methane reservoirs. [10.1016/j.coal.2014.06.018]. *International Journal of Coal Geology*, 131(C), 250-262. doi: 10.1016/j.coal.2014.06.018
- Sandow, M., Fisher, T., Howard, C., & Papas, S. (2013). Unifying model of carpal mechanics based on computationally derived isometric constraints and rules-based motion - the stable central column theory. [10.1177/1753193413505407]. *Hand Surgery*, 39(4), 353-363. doi: 10.1177/1753193413505407
- Santos, A., Kumeria, T., & Losic, D. (2014). Nanoporous anodic alumina: a versatile platform for optical biosensors. [10.3390/ma7064297]. *Materials*, 7(6), 4297-4320. doi: 10.3390/ma7064297
- Santos, A., Kumeria, T., Wang, Y., & Losic, D. (2014). In situ monitored engineering of inverted nanoporous anodic alumina funnels: on the precise generation of 3D optical nanostructures. [10.1039/c4nr01422g]. *Nanoscale*, 6(17), 9991-9999. doi: 10.1039/c4nr01422g
- Santos, A., Sinn Aw, M., Bariana, M., Kumeria, T., Wang, Y., & Losic, D. (2014). Drug-releasing implants: Current progress, challenges and perspectives. [10.1039/c4tb00548a]. *Journal of Materials Chemistry B*, 2(37), 6157-6182. doi: 10.1039/c4tb00548a
- Sayyafzadeh, M., Mamghaderi, A., Pourafshary, P., & Haghghi, M. (2014). A Fast Simulator for Hydrocarbon Reservoirs During Gas Injection. [10.1080/10916466.2013.833939]. *PETROLEUM SCIENCE AND TECHNOLOGY*, 32(20), 2434-2442. doi: 10.1080/10916466.2013.833939
- Schacht, U., & Jenkins, C. (2014). Soil gas monitoring of the Otway Project demonstration site in SE Victoria, Australia. [10.1016/j.ijggc.2014.02.007]. *International Journal of Greenhouse Gas Control*, 24(C), 14-29. doi: 10.1016/j.ijggc.2014.02.007
- Schumacher, K., Doolan, C., & Kelso, R. (2014). The effect of a cavity on airfoil tones. [10.1016/j.jsv.2013.11.046]. *Journal of Sound and Vibration*, 333(7), 1913-1931. doi: 10.1016/j.jsv.2013.11.046
- Schumacher, K. L., Doolan, C. J., & Kelso, R. M. (2014). The effect of acoustic forcing on an airfoil tonal noise mechanism. [10.1121/1.4885485]. *Journal of the Acoustical Society of America*, 136(2), EL78-EL83. doi: 10.1121/1.4885485
- Seifollahi, S., Dowd, P., & Xu, C. (2014). An enhanced stochastic optimization in fracture network modelling conditional on seismic events. [10.1016/j.compgeo.2014.05.005]. *Computers and Geotechnics*, 61(C), 85-95. doi: 10.1016/j.compgeo.2014.05.005
- Seifollahi, S., Dowd, P., Xu, C., & Fadakar Alghalandis, Y. (2014). A spatial clustering approach for stochastic fracture network modelling. [10.1007/s00603-013-0456-x]. *Rock Mechanics and Rock Engineering*, 47(4), 1225-1235. doi: 10.1007/s00603-013-0456-x
- Sen, K., Mukherjee, B., & Collins, A. (2014). Interplay of deformation and magmatism in the Pangong Transpression Zone, eastern Ladakh, India: implications for remobilization of the trans-Himalayan magmatic arc and initiation of the Karakoram Fault. [10.1016/j.jsg.2014.01.009]. *Journal of Structural Geology*, 62(C), 13-24. doi: 10.1016/j.jsg.2014.01.009
- Sen, K., Mukherjee, B. K., & Collins, A. S. (2014). Reply to comment on "Interplay of deformation and magmatism in the Pangong Transpressional Zone, Eastern Ladakh, India: Implications for remobilization of the trans-Himalayan magmatic arc and initiation of the Karakoram Fault". [10.1016/j.jsg.2014.03.007]. *Journal of Structural Geology*, 65(C), 120-122. doi: 10.1016/j.jsg.2014.03.007
- Seredych, M., Rodríguez-Castellón, E., Biggs, M. J., Skinner, W., & Bandosz, T. J. (2014). Effect of visible light and electrode wetting on the capacitive performance of S- and N-doped nanoporous carbons: Importance of surface chemistry. [10.1016/j.carbon.2014.07.038]. *Carbon*, 78(C), 540-558. doi: 10.1016/j.carbon.2014.07.038
- Shariatnia, Z., Haghghi, M., Shafiei, A., Feiznia, S., & Zندهboudi, S. (2014). PVTX characteristics of oil inclusions from Asmari formation in Kuh-e-Mond heavy oil field in Iran. [10.1007/s00531-014-1101-y]. *International Journal of Earth Sciences*, 104(3), 603-623. doi: 10.1007/s00531-014-1101-y
- Sharrad, K., McKinnon-Matthews, J., Cook, N., Ciobanu, C., & Hand, M. (2014). The Basil Cu-Co deposit, Eastern Arunta Region, Northern Territory, Australia: a metamorphosed volcanic-hosted massive sulphide deposit. [10.1016/j.oregeorev.2013.08.008]. *Ore Geology Reviews*, 56(C), 141-158. doi: 10.1016/j.oregeorev.2013.08.008
- Shen, J., Jimenez, R., Karakus, M., & Xu, C. (2014). A simplified failure criterion for intact rocks based on rock type and uniaxial compressive strength. [10.1007/s00603-013-0408-5]. *Rock Mechanics and Rock Engineering*, 47(2), 357-369. doi: 10.1007/s00603-013-0408-5
- Shen, J., & Karakus, M. (2014). Simplified Method for Estimating the

- Hoek-Brown Constant for Intact Rocks. [10.1061/(ASCE)GT.1943-5606.0001116]. *JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING*, 140(6), 1-8. doi: 10.1061/(ASCE)GT.1943-5606.0001116
- Shen, J., & Karakus, M. (2014). Three-dimensional numerical analysis for rock slope stability using shear strength reduction method. [10.1139/cgj-2013-0191]. *CANADIAN GEOTECHNICAL JOURNAL*, 51(2), 164-172. doi: 10.1139/cgj-2013-0191
- Shen, Z., Mellati, A., Bi, J., Zhang, H., & Dai, S. (2014). A thermally responsive cationic nanogel-based platform for three-dimensional cell culture and recovery. [10.1039/c4ra02852j]. *RSC Advances*, 4(55), 29146-29156. doi: 10.1039/c4ra02852j
- Shi, B., Zhang, H., Bi, J., & Dai, S. (2014). Endosomal pH responsive polymers for efficient cancer targeted gene therapy. [10.1016/j.colsurfb.2014.04.005]. *Colloids and Surfaces B: Biointerfaces*, 119(C), 55-65. doi: 10.1016/j.colsurfb.2014.04.005
- Shi, B., Zhang, H., Dai, S., Du, X., Bi, J., & Qiao, S. (2014). Intracellular microenvironment responsive polymers: a multiple-stage transport platform for high-performance gene delivery. [10.1002/smll.201302430]. *Small*, 10(5), 871-877. doi: 10.1002/smll.201302430
- Shi, B., Zhang, H., Qiao, S. Z., Bi, J., & Dai, S. (2014). Intracellular microenvironment-responsive label-free autofluorescent nanogels for traceable gene delivery. [10.1002/adhm.201400187]. *Advanced Healthcare Materials*, 3(11), 1839-1848. doi: 10.1002/adhm.201400187
- Simovic, S., Diener, K., Bachhuka, A., Kant, K., Losic, D., Hayball, J., Vasilev, K. (2014). Controlled release and bioactivity of the monoclonal antibody rituximab from a porous matrix: a potential in situ therapeutic device. [10.1016/j.matlet.2014.05.110]. *Materials Letters*, 130(C), 210-214. doi: 10.1016/j.matlet.2014.05.110
- Singh, S., Koepke, U. G., Howard, C. Q., & Petersen, D. (2014). Analyses of contact forces and vibration response for a defective rolling element bearing using an explicit dynamics finite element model. [10.1016/j.jsv.2014.05.011]. *JOURNAL OF SOUND AND VIBRATION*, 333(21), 5356-5377. doi: 10.1016/j.jsv.2014.05.011
- Smits, R., Collins, W., Hand, M., Dutch, R., & Payne, J. (2014). A Proterozoic Wilson cycle identified by Hf isotopes in central Australia: implications for the assembly of Proterozoic Australia and Rodinia. [10.1130/G35112.1]. *Geology*, 42(3), 231-234. doi: 10.1130/G35112.1
- Soeffky, P., Heinson, G., Thiel, S., & Krieger, L. (2014). Crustal heterogeneity: a magnetotelluric case study from Olympic Dam 22nd EM Induction Workshop.
- Song, Y., Clifton, S. N., Pensack, R. D., Kee, T. W., & Scholes, G. D. (2015). Vibrational coherence probes the mechanism of ultrafast electron transfer in polymer-fullerene blends. [10.1038/ncomms5933]. *Nature Communications*, 5(ARTN 4933). doi: 10.1038/ncomms5933
- Sooriyaarachchi, M., Wedding, J., Harris, H., & Gailer, J. (2014). Simultaneous observation of the metabolism of cisplatin and NAMI-A in human plasma in vitro by SEC-ICP-AES. [10.1007/s00775-014-1102-0]. *Journal of Biological Inorganic Chemistry*, 19(6), 1049-1053. doi: 10.1007/s00775-014-1102-0
- Su, Y. Z., Xiao, K., Li, N., Liu, Z. Q., & Qiao, S. Z. (2014). Amorphous Ni(OH)₂ @ three-dimensional Ni core-shell nanostructures for high capacitance pseudocapacitors and asymmetric supercapacitors. [10.1039/c4ta02486a]. *Journal of Materials Chemistry A*, 2(34), 13845-13853. doi: 10.1039/c4ta02486a
- Sun, L., Sun, W., Song, K., & Hansen, C. H. (2014). Effectiveness of a passive-active vibration isolation system with actuator constraints. [10.3901/CJME.2014.03.567]. *Chinese Journal of Mechanical Engineering (English Edition)*, 27(3), 567-574. doi: 10.3901/CJME.2014.03.567
- Sun, Z. W., Gu, D. H., Nathan, G. J., Alwahabi, Z. T., & Dally, B. B. (2014). Single-shot, time-resolved planar laser-induced incandescence (TiRe-LII) for soot primary particle sizing in flames. [10.1016/j.proci.2014.07.066]. *Proceedings of the Combustion Institute*, 35(3), 3673-3680. doi: 10.1016/j.proci.2014.07.066
- Swierczek, E., Backe, G., Holford, S. P., Tenthorey, E., & Mitchell, A. (2015). 3D seismic analysis of complex faulting patterns above the Snapper Field, Gippsland Basin: implications for CO₂ storage. [10.1080/08120099.2015.978373]. *Australian Journal of Earth Sciences*, 62(1), 77-94. doi: 10.1080/08120099.2015.978373
- Ta, C., Reith, F., Brugger, J., Pring, A., & Lenehan, C. E. (2014). Analysis of gold(I/III)-complexes by HPLC-ICP-MS demonstrates gold(III) stability in surface waters. [10.1021/es404919a]. *Environmental Science and Technology*, 48(10), 5737-5744. doi: 10.1021/es404919a
- Tapping, P., & Kee, T. (2014). Optical pumping of poly(3-hexylthiophene) singlet excitons induces charge carrier generation. [10.1021/jz500217f]. *Journal of Physical Chemistry Letters*, 5(6), 1040-1047. doi: 10.1021/jz500217f
- Tassone, D. R., Holford, S. P., Duddy, I. R., Green, P. F., & Hillis, R. R.

- (2014). Quantifying Cretaceous-Cenozoic exhumation in the Otway Basin, southeastern Australia, using sonic transit time data: Implications for conventional and unconventional hydrocarbon prospectivity. [10.1306/04011312111]. *AAPG Bulletin*, 98(1), 67-117. doi: 10.1306/04011312111
- Tassone, D. R., Holford, S. P., Stoker, M. S., Green, P., Johnson, H., Underhill, J. R., & Hillis, R. R. (2014). Constraining Cenozoic exhumation in the Faroe-Shetland region using sonic transit time data. [10.1111/bre.12052]. *Basin Research*, 26(1), 38-72. doi: 10.1111/bre.12052
- Taylor, R. J. M., Clark, C., Fitzsimons, I. C. W., Santosh, M., Hand, M., Evans, N., & McDonald, B. (2014). Post-peak, fluid-mediated modification of granulite facies zircon and monazite in the Trivandrum Block, southern India. [10.1007/s00410-014-1044-0]. *Contributions to Mineralogy and Petrology*, 168(2), 1044-1041-1044-1017. doi: 10.1007/s00410-014-1044-0
- Thiel, S., Hand, M., Soeffky, P., Heinson, G., Krieger, L., & Robertson, K. (2014). Imaging intraplate deformation with magnetotellurics. *22nd EM Induction Workshop*. Weimar, Germany.
- Thong, C. X., Kalt, P. A. M., Dally, B. B., & Birzer, C. H. (2014). Flow dynamics of multi-lateral jets injection into a round pipe flow. [10.1007/s00348-014-1884-4]. *Experiments in Fluids*, 56(1), 15-11-15-16. doi: 10.1007/s00348-014-1884-4
- Tian, G., & Liebelt, M. (2014). An effectiveness-based adaptive cache replacement policy. [10.1016/j.micpro.2013.11.011]. *Microprocessors and Microsystems*, 38(1), 98-111. doi: 10.1016/j.micpro.2013.11.011
- Tian, Y., Etschmann, B., Mei, Y., Grundler, P. V., Testemale, D., Hazemann, J. L., Brugger, J. (2014). Speciation and thermodynamic properties of manganese(II) chloride complexes in hydrothermal fluids: In situ XAS study. [10.1016/j.gca.2013.12.003]. *GEOCHIMICA ET COSMOCHIMICA ACTA*, 129(C), 77-95. doi: 10.1016/j.gca.2013.12.003
- Tian, Z. F., & Abraham, J. (2014). Application of computational fluid dynamics (CFD) in teaching internal combustion engines. [10.7227/IJMEE.42.1.7]. *International Journal of Mechanical Engineering Education*, 42(1), 73-83. doi: 10.7227/IJMEE.42.1.7
- Toor, M., Jin, B., Dai, S., & Vimonses, V. (2014). Activating natural bentonite as a cost-effective adsorbent for removal of Congo-red in wastewater. [10.1016/j.jiec.2014.03.033]. *Journal of Industrial and Engineering Chemistry, In Press*, 1-9. doi: 10.1016/j.jiec.2014.03.033
- Tran, N., Kabiri, S., & Losic, D. (2014). A green approach for the reduction of graphene oxide nanosheets using non-aromatic amino acids. [10.1016/j.carbon.2014.04.067]. *Carbon*, 76(C), 193-202. doi: 10.1016/j.carbon.2014.04.067
- Treloar, K. K., Simpson, M. J., Binder, B. J., McElwain, D. L. S., & Baker, R. E. (2014). Assessing the role of spatial correlations during collective cell spreading. [10.1038/srep05713]. *SCIENTIFIC REPORTS*, 4(ARTN 5713), 1-8. doi: 10.1038/srep05713
- Vaculik, J., Griffith, M., & Magenes, G. (2014). Dry stone masonry walls in bending - Part II: analysis. [10.1080/15583058.2012.663060]. *International Journal of Architectural Heritage: conservation, analysis, and restoration*, 8(1), 29-48. doi: 10.1080/15583058.2012.663060
- Wade, S., Binder, B., Mattner, T., & Denier, J. (2014). On the free-surface flow of very steep forced solitary waves. [10.1017/jfm.2013.590]. *Journal of Fluid Mechanics*, 739, 1-21. doi: 10.1017/jfm.2013.590
- Walsh, K. Q., Dizhur, D. Y., Almesfer, N., Cummuskey, P. A., Cousins, J., Derakhshan, H., Ingham, J. M. (2014). Geometric characterisation and out-of-plane seismic stability of low-rise unreinforced brick masonry buildings in Auckland, New Zealand. *Bulletin of the New Zealand Society for Earthquake Engineering*, 47(2), 139-156.
- Wang, F. H., Zhu, Y. C., Wan, Z. H., & You, Z. J. (2014). Effect of circumferential wave number on stability of suspension flow. [10.2298/TSCI1405517W]. *Thermal Science*, 18(5), 1517-1523. doi: 10.2298/TSCI1405517W
- Wang, J. J., Ling, T., Qiao, S. Z., & Du, X. W. (2014). Double open-circuit voltage of three-dimensional ZnO/CdTe solar cells by a balancing depletion layer. [10.1021/am5041219]. *ACS Applied Materials and Interfaces*, 6(16), 14718-14723. doi: 10.1021/am5041219
- Wang, Y., Santos, A., Kaur, G., Evdokiou, A., & Losic, D. (2014). Structurally engineered anodic alumina nanotubes as nano-carriers for delivery of anticancer therapeutics. [10.1016/j.biomaterials.2014.03.059]. *Biomaterials*, 35(21), 5517-5526. doi: 10.1016/j.biomaterials.2014.03.059
- Ward, A. J., Lewis, D. M., & Green, F. B. (2014). Anaerobic digestion of algae biomass: A review. [10.1016/j.algal.2014.02.001]. *Algal Research*, 5(1), 204-214. doi: 10.1016/j.algal.2014.02.001
- Watling, H., Collinson, D., Li, J., Mutch, L., Perrot, F., Rea, S., Watkin, E. (2014). Bioleaching of a low-grade copper ore, linking leach chemistry and microbiology. [10.1016/j.mineng.2013.10.023]. *Minerals Engineering*, 56(C), 35-44. doi: 10.1016/j.mineng.2013.10.023
- Wawryk, A. (2014). Conservation and

- Access to Land for Mining in Protected Areas: The Conflict Over Mining in South Australia's Arkaroola Wilderness Sanctuary. [10.1093/jel/equ008]. *Journal of Environmental Law*, 26(2), 291-317. doi: 10.1093/jel/equ008
- Wawryk, A. S. (2014). Australian Federal Election 2013: Implications for Mining, Energy and Natural Resources. *Journal of Energy and Natural Resources Law*, 32(1), 81-103.
- Wawryk, A. S. (2014). The internationalisation of liability regimes for offshore petroleum exploration and production. *Australian Petroleum Production and Exploration Association (APPEA) Journal*, 2014, 209-230.
- Wawryk, C. M., & Foden, J. D. (2014). Fe-isotope fractionation in magmatic-hydrothermal mineral deposits: A case study from the Renison Sn-W deposit, Tasmania. [10.1016/j.gca.2014.09.044]. *Geochimica et Cosmochimica Acta*, 150, 285-298. doi: 10.1016/j.gca.2014.09.044
- Weekley, C., Jeong, G., Tierney, M., Hossain, F., Maw, A., Shanu, A., Witting, P. (2014). Selenite-mediated production of superoxide radical anions in A549 cancer cells is accompanied by a selective increase in SOD1 concentration, enhanced apoptosis and Se-Cu bonding. [10.1007/s00775-014-1113-x]. *Journal of Biological Inorganic Chemistry*, 19(6), 813-828. doi: 10.1007/s00775-014-1113-x
- Weekley, C. M., Aitken, J. B., Witting, P. K., & Harris, H. H. (2014). XAS studies of Se speciation in selenite-fed rats. [10.1039/c4mt00227j]. *Metallomics*, 6(12), 2193-2203. doi: 10.1039/c4mt00227j
- Weekley, C. M., Shanu, A., Aitken, J. B., Vogt, S., Witting, P. K., & Harris, H. H. (2014). XAS and XFM studies of selenium and copper speciation and distribution in the kidneys of selenite-supplemented rats. [10.1039/c4mt00088a]. *Metallomics*, 6(9), 1602-1615. doi: 10.1039/c4mt00088a
- Weiland, F., Zammit, C., Reith, F., & Hoffmann, P. (2014). High resolution two-dimensional electrophoresis of native proteins. [10.1002/elps.201400060]. *Electrophoresis*, 35(12-13), 1893-1902. doi: 10.1002/elps.201400060
- Welsh, M., Delfabbro, P., Burns, N., & Begg, S. (2014). Individual differences in anchoring: traits and experience. [10.1016/j.lindif.2013.01.002]. *Learning and Individual Differences*, 29(C), 131-140. doi: 10.1016/j.lindif.2013.01.002
- Wu, J., Biggs, M., & Hu, E. (2014). Dynamic model for the optimisation of adsorption-based desalination processes. [10.1016/j.applthermaleng.2014.02.045]. *Applied Thermal Engineering*, 66(1-2), 464-473. doi: 10.1016/j.applthermaleng.2014.02.045
- Wu, J., Delcheva, I., Ngothai, Y., Krasowska, M., & Beattie, D. A. (2015). Bubble-surface interactions with graphite in the presence of adsorbed carboxymethylcellulose. [10.1039/c4sm02380c]. *Soft Matter*, 11(3), 587-599. doi: 10.1039/c4sm02380c
- Xia, F., Zhao, J., Etschmann, B. E., Brugger, J., Garvey, C. J., Rehm, C., Pring, A. (2014). Characterization of porosity in sulfide ore minerals: A USANS/SANS study. [10.2138/am-2014-4845]. *American Mineralogist*, 99(11-12), 2398-2404. doi: 10.2138/am-2014-4845
- Xing, T., Zheng, Y., Li, L. H., Cowie, B. C. C., Gunzelmann, D., Qiao, S. Z., Chen, Y. (2014). Observation of active sites for oxygen reduction reaction on nitrogen-doped multilayer graphene. [10.1021/nn501506p]. *ACS Nano*, 8(7), 6856-6862. doi: 10.1021/nn501506p
- Xu, C., & Dowd, P. A. (2014). Stochastic fracture propagation modelling for enhanced geothermal systems. [10.1007/s11004-014-9542-1]. *Mathematical Geosciences*, 46(6), 665-690. doi: 10.1007/s11004-014-9542-1
- Xu, M. Y., Tong, X. Q., Yue, D. T., Zhang, J. P., Mi, J. C., Nathan, G. J., & Kalt, P. A. M. (2014). Effect of noncircular orifice plates on the near flow field of turbulent free jets. [10.1088/1674-1056/23/12/124703]. *CHINESE PHYSICS B*, 23(12), 1-9. doi: 10.1088/1674-1056/23/12/124703
- Xu, S., Bai, Z., Jin, B., Xiao, R., & Zhuang, G. (2014). Bioconversion of wastewater from sweet potato starch production to *Paenibacillus polymyxa* biofertilizer for tea plants. [10.1038/srep04131]. *Scientific Reports*, 4(ARTN 4131), 4131-4131-4131-4137. doi: 10.1038/srep04131
- Xu, X., Gao, B., Jin, B., Zhen, H., Wang, X., & Dai, M. (2015). Study of microbial perchlorate reduction: Considering of multiple pH, electron acceptors and donors. [10.1016/j.jhazmat.2014.10.061]. *Journal of Hazardous Materials*, 285, 228-235. doi: 10.1016/j.jhazmat.2014.10.061
- Xue, Y., Arjomandi, M., & Kelso, R. (2014). Energy analysis within a vortex tube. [10.1016/j.expthermflusci.2013.09.004]. *Experimental Thermal and Fluid Science*, 52(C), 139-145. doi: 10.1016/j.expthermflusci.2013.09.004
- Yang, T., Liu, J., Zhou, R., Chen, Z., Xu, H., Qiao, S. Z., & Monteiro, M. J. (2014). N-doped mesoporous carbon spheres as the oxygen reduction reaction catalysts. [10.1039/c4ta04301d]. *Journal of Materials Chemistry A*, 2(42), 18139-18146. doi: 10.1039/c4ta04301d

- Yin, P. F., Ling, T., Lu, Y. R., Xu, Z. W., Qiao, S. Z., & Du, X. W. (2014). CdS nanoflake arrays for highly efficient light trapping. [10.1002/adma.201403947]. *Advanced Materials*, 27(4), 740-745. doi: 10.1002/adma.201403947
- You, Z., Osipov, Y., Bedrikovetsky, P., & Kuzmina, L. (2014). Asymptotic model for deep bed filtration. [10.1016/j.cej.2014.07.051]. *Chemical Engineering Journal*, 258(C), 374-385. doi: 10.1016/j.cej.2014.07.051
- Zajamsek, B., Moreau, D. J., & Doolan, C. J. (2014). Characterising noise and annoyance in homes near a wind farm. *Acoustics Australia*, 42(1), 14-19.
- Zammit, C. M., Brugger, J., Southam, G., & Reith, F. (2014). In situ recovery of uranium - The microbial influence. [10.1016/j.hydromet.2014.06.003]. *Hydrometallurgy*, 150, 236-244. doi: 10.1016/j.hydromet.2014.06.003
- Zanchetta, E., Malfatti, L., Ricco, R., Styles, M. J., Lisi, F., Coghlan, C. J., Falcaro, P. (2015). ZnO as an efficient nucleating agent for rapid, room temperature synthesis and patterning of Zn-based metal-organic frameworks. [10.1021/cm502882a]. *Chemistry of Materials*, 27(3), 690-699. doi: 10.1021/cm502882a
- Zeinijahromi, A., & Bedrikovetsky, P. (2014). Enhanced water flooding sweep efficiency by induced formation damage in layer-cake reservoirs. *SPE - European Formation Damage Conference, Proceedings, EFDC*, 2, 1045-1054.
- Zhang, G., Karakus, M., Tang, H., Ge, Y., & Zhang, L. (2014). A new method estimating the 2D Joint Roughness Coefficient for discontinuity surfaces in rock masses. [10.1016/j.ijrmms.2014.09.009]. *International Journal of Rock Mechanics and Mining Sciences*, 72, 191-198. doi: 10.1016/j.ijrmms.2014.09.009
- Zhang, J., Qi, L., Ran, J., Yu, J., & Qiao, S. Z. (2014). Ternary NiS/ZnxCd1-xS/reduced graphene oxide nanocomposites for enhanced solar photocatalytic H₂-production activity. [10.1002/aenm.201301925]. *Advanced Energy Materials*, 4(10). doi: 10.1002/aenm.201301925
- Zhang, T., Visintin, P., Oehlers, D. J., & Griffith, M. C. (2014). Presliding Shear Failure in Prestressed RC Beams. I: Partial-Interaction Mechanism. [10.1061/(ASCE)ST.1943-541X.0000988]. *JOURNAL OF STRUCTURAL ENGINEERING*, 140(10), 1-10. doi: 10.1061/(ASCE)ST.1943-541X.0000988
- Zhang, T., Visintin, P., Oehlers, D. J., & Griffith, M. C. (2014). Presliding Shear Failure in Prestressed RC Beams. II: Behavior. [10.1061/(ASCE)ST.1943-541X.0000984]. *JOURNAL OF STRUCTURAL ENGINEERING*, 140(10), 1-9. doi: 10.1061/(ASCE)ST.1943-541X.0000984
- Zhao, J., Brugger, J., Chen, G., Ngothai, Y., & Pring, A. (2014). Experimental study of the formation of chalcopyrite and bornite via the sulfidation of hematite: Mineral replacements with a large volume increase. [10.2138/am.2014.4628]. *AMERICAN MINERALOGIST*, 99(2-3), 343-354. doi: 10.2138/am.2014.4628
- Zhao, J., Brugger, J., Ngothai, Y., & Pring, A. (2014). The replacement of chalcopyrite by bornite under hydrothermal conditions. [10.2138/am-2014-4825]. *American Mineralogist*, 99(11-12), 2389-2397. doi: 10.2138/am-2014-4825
- Zheng, Y., Jiao, Y., Jaroniec, M., & Qiao, S. Z. (2014). Advancing the Electrochemistry of the Hydrogen-Evolution Reaction through Combining Experiment and Theory. [10.1002/anie.201407031]. *Angewandte Chemie (International ed. in English)*, Online(1), 2-16. doi: 10.1002/anie.201407031
- Zheng, Y., Jiao, Y., Li, L. H., Xing, T., Chen, Y., Jaroniec, M., & Qiao, S. Z. (2014). Toward design of synergistically active carbon-based catalysts for electrocatalytic hydrogen evolution. [10.1021/nn501434a]. *ACS Nano*, 8(5), 5290-5296. doi: 10.1021/nn501434a
- Zheng, Y., Jiao, Y., Zhu, Y., Li, L. H., Han, Y., Chen, Y., Qiao, S. Z. (2014). Hydrogen evolution by a metal-free electrocatalyst. [10.1038/ncomms4783]. *Nature Communications*, 5(ARTN 3783). doi: 10.1038/ncomms4783
- Zhou, R., & Qiao, S. Z. (2014). Silver/nitrogen-doped graphene interaction and its effect on electrocatalytic oxygen reduction. [10.1021/cm502260m]. *Chemistry of Materials*, 26(20), 5868-5873. doi: 10.1021/cm502260m
- Zhou, Y., & Deng, A. (2014). 分段线性差分一维大变形电渗固结模型. *Chinese Journal of Underground Space and Engineering*, 10(3), 552-558.
- Zhu, J., Sun, Z., Li, Z., Ehn, A., Alden, M., Salewski, M., Kusano, Y. (2014). Dynamics, OH distributions and UV emission of a gliding arc at various flow-rates investigated by optical measurements. [10.1088/0022-3727/47/29/295203]. *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, 47(29). doi: 10.1088/0022-3727/47/29/295203
- Zhu, Z. L., Cui, L., Ling, T., Qiao, S. Z., & Du, X. W. (2014). CdTe nanoflake arrays on a conductive substrate: Template synthesis and photoresponse property. [10.1039/c3ta13894a]. *Journal of Materials Chemistry A*, 2(4), 957-961. doi: 10.1039/c3ta13894a

Conference Papers

Aryan, P., Kotooussov, A., Ng, C. T., & Cazzolato, B. S. (2014). *An approach towards a baseline-free technique for damage detection utilising advances in 3D laser vibrometry*. Paper presented at the 8th Australasian Congress on Applied Mechanics 2014 (ACAM 8), Melbourne, Australia

Aryan, P., Kotooussov, A., Ng, C. T., & Cazzolato, B. S. (2014). *Lamb wave characterisation and damage imaging for isotropic plate-like structures using 3D laser vibrometry*. Paper presented at the APCF/SIF-2014 Congress, Sydney, Australia.

Ayub, M., Zander, A. C., Howard, C. Q., Cazzolato, B. S., Shanov, V. S., Alvarez, N. T., & Huang, D. M. (2014/11/16/). *Acoustic absorption behaviour of carbon nanotube arrays*. Paper presented at the 43rd International Congress on Noise Control Engineering, Melbourne.

Bagheri, Cazzolato, B. S., Wiederman, Grainger, & O'Carroll. (2014/09/03/). *An Insect Inspired Object Tracking Mechanism for Autonomous Vehicles*. Paper presented at the 11th International Conference on Informatics in Control, Automation and Robotics (ICINCO), Vienna, Austria.

Bagheri, Wiederman, Cazzolato, B. S., Grainger, & O'Carroll. (2014/12/12/). *Performance assessment of an insect-inspired target tracking model in background clutter*. Paper presented at the The 13th International Conference on Control, Automation, Robotics and Vision, ICARCV 2014, Singapore.

Bagheri, Z., Wiederman, S. D., Cazzolato, B. S., Grainger, S., & O'Carroll, D. C. (2014/11/27/). *A Biologically Inspired Facilitation Mechanism Enhances the Detection and Pursuit of Targets of Varying Contrast*. Paper presented at the The 16th International Conference on Digital Image Computing: Techniques and Applications (DICTA),

Wollongong.

Bedrikovetsky, P. G., Vaz, A., Machado, F. A., Zeinijahromi, A., & Borazjani, S. *Productivity Impairment After Water Breakthrough Due to Fines Migration*.

Begg, S. H., Bratvold, R. B., & Welsh, M. B. (2014). *Uncertainty vs. variability: what's the difference and why is it important?* Paper presented at the SPE Hydrocarbon Economics and Evaluation Symposium, Houston, Texas.

Bolzon, M., Kelso, R. M., & Arjomandi, M. (2014/12/08/). *The Effects of Tubercles on Swept Wing Performance at Low Angles of Attack*. Paper presented at the 19th Australasian Fluid Mechanics Conference, Melbourne.

Bowden, R., Roughan, M., & Bean, N. (2014/12/02/). *COLD: Pop-level network topology synthesis*.

Bunch, M. (2014). *A live test of automated facies prediction at wells for CO2 storage projects*.

Cavuto, J., Earl, L., Fahy, T., & Kelso, R. (2014/12/08/). *Aerodynamic Characteristics of Australian Rules Footballs*. Paper presented at the 19th Australasian Fluid Mechanics Conference, Melbourne.

Chanda, E., Karakus, M., Light, L., Cook, B., & Harris, A. (2014). *Optimization of the paste fill cycle at Angas Zinc Mine, Strathalbyn, South Australia The 12th AusIMM Underground Operators' Conference, Adelaide, Australia*. Paper presented at the The 12th AusIMM Underground Operators' Conference, Adelaide, Australia.

Choudhry, A., Arjomandi, M., & Kelso, R. (2014/12/08/). *Lift Curve Breakdown for Airfoil undergoing Dynamic Stall*. Paper presented at the 19th Australasian Fluid Mechanics Conference, Melbourne.

Deng, A., & McBride, L. (2014/11/10/). *Hydraulic conductivity of Hindmarsh clay amended by polymeric additive*. Paper presented at the The 7th International Congress on Environmental Geotechnics: Lessons, Learnings & Challenges, Melbourne.

Deng, A., & Wang, C. (2014/11/10/). *A finite difference model for electric field derived solute transport*. Paper presented at the The 7th International Congress on Environmental Geotechnics: Lessons, Learnings & Challenges, Melbourne.

Dizhur, D., Griffith, M. C., & Ingham, J. M. (2014). *Improvement of unreinforced masonry wall panels shear strength using NSM CFRP strips*, , 13p. Paper presented at the 9th International Masonry Conference, Guimaraes, Portugal.

Doherty, K., Larizza, F., Tripodi, M., & Howard, C. (2014). *Adaptive quarter wavelength tube tuned by varying air Temperature*.

Doonan, C. J., Sumbly, C. J., & Bloch, W. M. (2014/08/10/). *MOFs: Nanosized windows into Angstrom space*. Paper presented at the 248th National Meeting of the American-Chemical-Society (ACS), San Francisco, CA.

Dowd, P. A., Xu, C., & Coward, S. (2014). *Strategies for Mine Planning and Design*. Paper presented at the Orebody Modelling and Strategic Mine Planning Symposium 2014, Perth, Australia Melbourne.

Ertasgin, G., Whaley, D. M., Ertugrul, N., & Soong, W. L. (2014/12/09/). *Energy storage element sizing for single-phase grid-connected photovoltaic converter*.

Farrokhi Derakhshandeh, J., Arjomandi, M., Cazzolato, B. S., & Dally, B. (2014/12/11/). *Experimental and computational investigation of wake induced vibration*. Paper presented at the 19th Australasian Fluid Mechanics Conference,

Melbourne, Australia.

Foo, H. T. C., Ebendorff-Heidepriem, H., Sumby, C. J., & Monro, T. M. (2014). *Comparison of 3-aminopropyltriethoxysilane (APTES) grafting chemistry on silica and lead silicate glass*. Paper presented at the Australian Conference on Microscopy and Microanalysis, Adelaide, Australia.

Ghanadi, F., Arjomandi, M., Cazzolato, B. S., & Zander, A. C. (2014/12/11/). *Experimental investigation of the application of a self-excited cylindrical Helmholtz resonator for turbulent drag reduction*. Paper presented at the 19th Australasian Fluid Mechanics Conference (AFMC 2014), Melbourne, Australia.

Hansen, K., Kelso, R., Choudhry, A., & Arjomandi, M. (2014/12/08/). *Laminar Separation Bubble Effect on the Lift Curve Slope of an Airfoil*. Paper presented at the 19th Australasian Fluid Mechanics Conference, Melbourne.

Hansen, K., Zajamšek, B., & Hansen, C. (2014). *Comparison of the noise levels measured in the vicinity of a wind farm for shutdown and operational conditions*.

Harris, H. H. (2014/03/01/). *Imaging metal mobilisation in tissue remodelling processes*. Paper presented at the 16th International Conference on Biological Inorganic Chemistry (ICBIC), Grenoble, FRANCE.

He, Z., Kotoousov, A., & Rose, L. R. F. (2014). *Effect of vertex singularities on the displacement and strain fields near a crack front*. Paper presented at the APCF/SIF-2014 Congress, Sydney, Australia.

Henderson-Sapir, O., Munch, J., & Ottaway, D. J. (2014/12/09/). *Mid-infrared 3.5 μm band Er³⁺:ZBLAN fibre laser*. Paper presented at the AIP 2014 Congress, Canberra, ACT, Australia.

Huang, H., Chen, L., & Hu, E. (2014). *Model predictive control for energy-efficient buildings: An airport terminal building study*. Paper presented at the 11th IEEE International Conference on Control and Automation (ICCA), Taichung, TAIWAN.

Hussain, F., Zeinjahromi, A., Bedrikovetsky, P., Badalyan, A., Carageorgos, T., & Cinar, Y. (2014). *Enhanced oil recovery through low salinity fines-assisted waterflooding: Laboratory and mathematical modelling*.

Jaksa, M. B., & Scott, B. T. (2014). *Evaluating Rolling Dynamic Compaction of Fill Using CPT*. Paper presented at the Proc. 3rd International Symposium on Cone Penetration Testing, Las Vegas, Nevada.

Kalt, P., Birzer, C., Evans, H., Liew, A., Padovan, M., & Watchman, M. (2014). *A solar disinfection water treatment system for remote communities*.

Karakus, M. (2014). *Quantifying the discrepancy in preloads estimated by acoustic emission and deformation rate analysis*.

Karakus, M., Baillie, T. S., Cannon, O. R., Forsyth, B. F. H., & Snell, T. J. (2014). *Developing early age strength in Fibre Reinforced Shotcrete (FRS): Effects of accelerator types and rate of dosages*.

Keshavarz, A., Badalyan, A., Carageorgos, T., Johnson, R., & Bedrikovetsky, P. (2014). *Stimulation of unconventional naturally fractured reservoirs by graded proppant injection: Experimental study and mathematical model*.

Keshavarz, A., Khanna, A., Hughes, T., Bonicioli, M., Cooper, A., & Bedrikovetsky, P. (2014). *Mathematical model for stimulation of CBM reservoirs during graded proppant injection*. Paper presented at the 2014 SPE/EAGE European

Unconventional Resources Conference and Exhibition, Vienna, Austria.

Kirste, D., Haese, R., Boreham, C., & Schacht, U. (2014). *Evolution of formation water chemistry and geochemical modelling of the CO₂CRC Otway Site residual gas saturation test*.

Kotoousov, A., & Costin, W. (2014). *Testing localized microstructural architectures with miniaturised cantilever beams*. Paper presented at the The APCF/SIF-2014 Congress uniting: Asian-Pacific Conference on Fracture and Strength (APCFS-2014) International Conference on Structural Integrity and Failure (SIF-2014), University of Sydney, Australia.

Kotoousov, A., Khanna, A., & Bun, S. (2014). *An analysis of elasto-plastic fracture criteria*. Paper presented at the APCF/SIF-2014 Congress, Sydney, Australia.

Leav, O. Y., Eriksson, C., Cazzolato, B. S., Robertson, W., & Ding, B. (2014/11/19/). *A novel semi-active quasi-zero stiffness vibration isolation system using a constant-force magnetic spring and an electromagnetic linear motor*. Paper presented at the InterNoise 2014, Melbourne.

Leclercq, D., & Howard, C. (2014). *Active flow control of the exhaust noise from internal combustion piston engine*.

Leclercq, D. J. J., Howard, C. Q., Hobson, P., Dickson, S., Zander, A. C., & Burch, M. (2014). *Controlling cyanobacteria with ultrasound*.

Li, C., Cazzolato, B., & Zander, A. (2014). *Boundary condition for the acoustic impedance of lightweight micro perforated panels and membranes*. Paper presented at the International Congress on Sound and Vibration, Beijing, China.

Li, Y., Hu, E., Wu, J. W., & Biggs, M. J.

(2014). *Recent progress of research and development of adsorption desalination*. Paper presented at the 9th Asia Pacific Conference on Sustainable Energy and Environmental Technologies (APCSEET), Narita, JAPAN.

Lim, Y. L., Soong, W. L., Ertugrul, N., & Haines, G. (2014/11/17/). *Varying magnet type and stack length in a surface PM soft magnetic composite machine*.

McCalman, L., O'Callaghan, S. T., Reid, A., Shen, D., Carter, S., Krieger, L., . . . Ramos, F. T. (2014). *DISTRIBUTED BAYESIAN GEOPHYSICAL INVERSIONS*. Paper presented at the Thirty - Nin th Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California.

Mimani, A., Doolan, C. J., & Medwell, P. R. (2014). *Aeroacoustic time-reversal in the presence of a reflecting surface*.

Mimani, A., Doolan, C. J., & Medwell, P. R. (2014). *Enhancing the resolution characteristics of aeroacoustic time-reversal using a point-time-reversal-sponge-layer*.

Mimani, A., Doolan, C. J., & Medwell, P. R. (2014). *On the effect of mean flow profile, wavelength and array length on focal-resolution of a quadrupole source using aeroacoustic time-reversal*.

Moazenahmadi, A., Petersen, D., Howard, C., & Sawalhi, N. (2014). *Defect size estimation and analysis of the path of rolling elements in defective bearings with respect to the operational speed*.

Mokhtarzadeh, H., Aw, M. S., Khalid, K. A., Gulati, K., Atkins, G. J., Findlay, D. M., . . . Pivonka, P. (2014/07/01/). *Computational and experimental model of nano-engineered drug delivery system for trabecular bone*.

Moreau, D., Coombs, J., & Doolan, C.

(2014). *On the flow and noise of a two-dimensional step element in a turbulent boundary layer*. Paper presented at the 2nd Symposium on Fluid-Structure-Sound Interactions and Control, Hong Kong.

Moreau, D. J., Prime, Z., & Doolan, C. J. (2014). *An experimental study of the flow-induced noise created by a wall-mounted finite length airfoil*. Paper presented at the 20th AIAA/CEAS Aeroacoustics Conference, Atlanta, GA.

Nakamura, Y., Magenes, G., & Griffith, M. C. (2014). *Comparison of pushover methods for simple building systems with flexible diaphragms*. Paper presented at the Australian Earthquake Engineering Society Conference, Lorne, Victoria.

Pardo-Iguzquiza, E., Olea, R., & Dowd, P. (2014). *Semi-variogram model inference using a median bootstrap statistics*. Paper presented at the Annual Conference of the International Association for Mathematical Geosciences, Madrid, Germany.

Petersen, D., & Howard, C. (2014). *Bearing defect size estimation for extended raceway defects*.

Prime, Z., Mimani, A., Moreau, D. J., & Doolan, C. J. (2014). *An experimental comparison of beamforming, time-reversal and near-field acoustic holography for aeroacoustic source localization*. Paper presented at the 20th AIAA/CEAS Aeroacoustics Conference, Atlanta, GA.

Prime, Z., Moreau, D. J., Doolan, C. J., Ali, M. S. M., Salleh, S. M., & Haris, S. N. A. M. (2014). *Flow modelling and noise generation of interacting prisms*. Paper presented at the 20th AIAA/CEAS Aeroacoustics Conference, Atlanta, GA.

Prime, Z., Robertson, W. S., Cazzolato, B. S., Missingham, D., & Kestell, C. (2014/06/11/). *Using the Honours Project Course to Enhance Engagement Across All Stakeholders*.

Paper presented at the Canadian Engineering Education Association Conference (CEEAA14), Canmore, Alberta, Canada.

Rezazadeh, M., Haghghi, M., & Pokalai, K. (2014). *Development of a stress dependent permeability model in tight gas reservoirs: A case study in Cooper Basin, Australia*.

Schumacher, K., Doolan, C., Kelso, R., & Thong, C. (2014/12/08/). *Asymmetric Flow about a Chevron-Shaped Cavity*. Paper presented at the 19th Australasian Fluid Mechanics Conference, Melbourne.

Singh, S., Howard, C. Q., Hansen, C. H., & Köpke, U. (2014). *Numerical noise generation in modelled bearing vibration signals*.

Siqueira, F. D., Yang, Y., Vaz, A., You, Z., & Bedrikovetsky, P. (2014). *Prediction of productivity decline in Oil and Gas wells due to fines migration: Laboratory and mathematical modelling*.

Sofyan, S. E., Hu, E., & Kotousov, A. (2014). *Modelling of a horizontal geo heat exchanger with an internal source term approach*.

Soong, W. L., Kahourzade, S., Liaw, C. Z., & Lillington, P. (2014/09/14/). *Interior PM Generator for Portable AC Generator Sets*. Paper presented at the Sixth Annual IEEE on Energy conversion Congress and Exposition, Pittsburgh, Pennsylvania.

Spoehr, J., & Worrall, L. (2014). *Reshaping the SA Economy: Industrial Rejuvenation and Innovation Systems*, Australian Workplace Innovation and Social Research Centre (WISeR), The University of Adelaide.

Taga, R., Noller, B. N., Ng, J. C., Aitken, J., & Harris, H. H. (2014). *Arsenic chemical form by XANES, bioaccessibility measurement and prediction in environmental samples*.

for human health risk assessment purposes.

Visintin, P., Griffith, M. C., & Mohamed Ali, M. (2014). *Bond of FRP near surface mounted to clay brick masonry under monotonic and cyclic loads*. Paper presented at the The 7th International Conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2014), Vancouver.

Visintin, P., Mohamed Ali, M., & Griffith, M. C. (2014). *Bond of FRP near surface mounted to clay brick masonry under monotonic and cyclic loads (CICE 2014), Vancouver, Canada, Paper No. 055*. Paper presented at the Composites in Civil Engineering 2014, Vancouver, British Columbia (Canada).

Wang, A., Wang, C., & Soong, W. L. (2014/10/30/). *Design and optimization of interior PM machines with distributed and fractional-slot concentrated-windings for hybrid electric vehicles*. Paper presented at the IEEE Transportation Electrification Conference and Expo (ITEC Asia-Pacific), Beijing, PEOPLES R CHINA.

Wardle, D., Gregory, T., & Cazzolato, B. S. (2014/12/04/). *Electronic training wheels: An automated cycling track stand*. Paper presented at the Australian Conference on Robotics and Automation (ACRA 2014), Melbourne.

Weekley, C. M., Harris, H. H., Aitken, J. B., Shanu, A., & Witting, P. K. (2014/03/01/). *The fate of dietary selenium compounds in vitro and in vivo: XAS and XFM studies*. Paper presented at the 16th International Conference on Biological Inorganic Chemistry (ICBIC), Grenoble, FRANCE.

Yang, Y., You, Z., Bedrikovetsky, P., Sacramento, R., Vaz, A., Leibhson, A., . . . Zitha, P. L. J. (2014). *External cake built of bisized particles in well injectivity and drilling*.

Zajamšek, B., Hansen, K., & Hansen, C. (2014). *Investigation of the time dependent nature of infrasound measured near a wind farm*.

Zeinijahromi, A., Al-Jassasi, H., Zhang, Y., Begg, S., & Bedrikovetsky, P. (2014). *Edge-water drive recovery enhancement by induced fines migration*.

Zeinijahromi, A., Borazjani, S., Bedrikovetsky, P., & Rodrigues, T. (2014). *Low salinity fines-assisted water-flood: Analytical modelling and reservoir simulation*.

Zhang, T., Griffith, M. C., & Visintin, P. (2014). *A unified solution for shear design of FRP reinforced concrete structures*. Paper presented at the The 7th International Conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2014), Vancouver.

Zhang, T., Visintin, P., & Griffith, M. C. (2014). *A unified solution for shear design of FRP reinforced concrete structures*. Paper presented at the Composites in Civil Engineering 2014, Vancouver, British Columbia (Canada).

Zhu, S., Ertugrul, N., & Kikkert, C. J. (2014). *A wide bandwidth, on-line impedance measurement method for power systems, based on PLC techniques*. Paper presented at the IEEE International Symposium on Circuits and Systems, Melbourne, Australia.

Books & Book Chapters

Dai, S. (2014). Natural Cationic Polymers for Advanced Gene and Drug Delivery. In S. K. Samal & P. Dubruel (Eds.), *Cationic Polymers in Regenerative Medicine*.

Jayasuriya, K. (2014). Transforming the public university: Market citizenship and higher education regulatory projects. In M. Thornton (Ed.), *Through a glass darkly: The social sciences look at the neo-liberal university* (Vol. 1, pp. 89-102). Australia: ANU Press.

Mullinger, P., & Jenkins, B. (2014). *Industrial and process furnaces: principles, design and operation*. United Kingdom: Elsevier.

Pincus, J. J. (2014). The wellbeing of the Australian people: Comments on the treasury's framework. In A. S. Podger & D. J. Trewin (Eds.), *Measuring and promoting wellbeing: How important is economic growth? Essays in honour of Ian Castles AO and a selection of Castles' papers* (Vol. 1, pp. 223-241). Australia: ANU Press.

Rosser, A. J. (2014). Indonesia: Oligarchic Capitalism. In M. A. Witt & G. Redding (Eds.), *The Oxford Handbook of Asian Business Systems* (Vol. 1, pp. 79-99). United Kingdom: Oxford University Press.

Schacht, U. (2014). Soil Gas Monitoring. In P. J. Cook (Ed.), *Geologically Storing Carbon: Learning from the Otway Project Experience* (Vol. 1, pp. 273-280). Australia: CSIRO Publishing.

Spoehr, J. D. (2014). Foundations for industrial rejuvenation: Lessons from international and national experience. In G. Roos & N. Kennedy (Eds.), *Global perspectives on achieving success in high and low cost operating environments* (Vol. 1, pp. 72-110). United States: IGI Global.

Wawryk, A. S. (2014). International

Energy Law: an Emerging Academic Discipline. In P. Babie & P. Leadbeter (Eds.), *Law as Change: Engaging with the Life and Scholarship of Adrian Bradbrook* (Vol. 1, pp. 223-255). Australia: University of Adelaide Press.

Wawryk, A. S. (2014). The Regulation of oil spills from offshore installations. In K. Talus (Ed.), *Research Handbook on International Energy Law* (Vol. 1, pp. 548-592). United Kingdom: Edward Edgar Publishing Limited.

Whitfield, D., & Spoehr, J. Alternatives to Austerity *Social Policy in Austere Times: The new international political economy*. Bristol, UK: Policy Press.