

## Publications for 2013

### Book and Book Sections

Khan, S. J. (2013). Drinking Water through Recycling: The Benefits and Costs of Supplying Direct to the Distribution System: Australian Academy of Technological Sciences and Engineering (ATSE).

Li, X. M., Liu, L., Liu, T. X., Yuan, T., Zhang, W., Li, F. B., & Li, Y. T. (2013). Effects of Synthetic Quinones as Electron Shuttles on Geothite Reduction and Current Generation by *Klebsiella Pneumoniae* L17. In J. Xu, J. Wu & Y. He (Eds.), *Functions of Natural Organic Matter in Changing Environment* (pp. 25-29). Netherlands: Springer Netherlands.

Sharma, A., Mehrotra, R., & Johnson, F. M. (2013). A New Framework for Modelling Future Hydrologic Extremes: Nested Bias Correction as a Precursor to Stochastic Rainfall Downscaling. In R. Y. Surampalli, B. R. Gurjar, T. C. Zhang & C. S. P. Ojha (Eds.), *Climate Change Modeling, Mitigation, and Adaptation* (pp. 357-386). USA: ASCE.

Wang, Y., Waite, D., & Leslie, G. L. (2013). Computational Fluid Dynamics (CFD) Analysis of Membrane Reactors: Modelling of Membrane Bioreactors for Municipal Wastewater Treatment. In B. Angelo (Ed.), *Handbook of Membrane Reactors, Volume 1: Fundamental Materials Science, Design and Optimisation* (Vol. 1, pp. 532-568). Cambridge, UK: Woodhead Publishing.

Wiedmann, T. (2013). Current and Future Policy Applications of MRIO Research. In J. Murray & M. Lenzen (Eds.), *The Sustainability Practitioner's Guide to Multi-Regional Input-Output Analysis* (pp. 267-275). Champaign, Illinois, USA: Common Ground Publishing.

### Conference Proceedings

Barbosa, V., Daniel, A., Burgess, J., Hobbs, P., & Stuetz, R. (2013). Microbial Population Shifts during Activated Diffusion of H<sub>2</sub>S for Odour Treatment. 5th Biotechniques for Air Pollution Control and Bioenergy, Nimes, France.

Barthelemy, X., Banner, M. L., Peirson, W. L., Dias, F., & Allis, M. J. (2013). Numerical Study of a Breaker Index in the Transition between Deep to Shallow Water Waves. Coasts & Ports 2013 Conference: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, EA, Sydney.

Blacka, M. J., Flocard, F., Rayner, D., & Rahman, P. (2013). A Case Study of Vulnerability to Cyclones and Climate Change: Avarua, Rarotonga. Coasts and Ports 2013: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, EA, Sydney.

Blacka, M. J., Flocard, F., Rayner, D., Rahman, P. and Parakoti, B. (2013). Modelling and Mapping the Impacts of Storm Surge and Waves on the Avarua Coastline. 2013 Science Technology and Resources Network Conference, SOPAC, Rarotonga.

Bouzalakos, S., Timms, W. A., Rahman, P. F., McGeeney, D. E., & Whelan, M. (2013). Geotechnical Centrifuge Permeameter for Characterising the Hydraulic Integrity of Partially Saturated Confining Strata for CSG Operations. IMWA2013 - Reliable Mine Water Technology, Denver, Colorado, USA.

Coghlan, I. R., Carley, J. T., Cox, R. J., Davey, E. K., Blacka, M. J., & Lofthouse, J. (2013).

Concept Designs for a Groyne Field on the Far North NSW Coast. NSW Coastal Conference Port Macquarie, NSW.

Collins, R. N., & Rosso, K. M. (2013). Theoretical Calculations on the Thermodynamics and Kinetics of U(VI) Homogeneous Reduction by Fe(II). Goldschmidt 2013, Florence, Italy.

Carley, J. T., Mariani, A., Cox, R. J., Shand, T. & Pells, S. E. (2013). History and Future of Seawalls in the Manly Local Government Area. Coasts & Ports 2013 Conference: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, EA, Sydney.

Cox, R. & Li, C. (2013). Stability of Hanbars for Upgrading of Breakwaters with Sea Level Rise. Coasts & Ports 2013 Conference: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, EA, Sydney.

Cox, R. & Tajziehchi, M. Numerical Modelling of Shoreline Response to Segmented Submerged Breakwaters. Coasts & Ports 2013 Conference: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, EA, Sydney.

Davey, E. K. & Glamore, W. C. A Tale of Two Rivers: Riverbank Vulnerability and Boat Wake Wave Assessments along Two Coastal Rivers. Coasts and Ports 2013: 21st Australasian Coastal and Ocean Engineering Conference 2011 and the 14th Australasian Port and Harbour Conference 2013, EA, Sydney.

Davidson, M. A., Turner, I. L., & Splinter, K. D. Predicting Shoreline Response to Cross-shore Processes in a Changing Wave Climate. Coastal Dynamics 2013, ASCE, Bordeaux, France.

Dever, S., Swarbrick, G., & Stuetz, R. Passive Biofiltration as an Alternative Method for Reducing Methane Emissions. Paper presented at the 5th Biotechniques for Air Pollution Control and Bioenergy, Nimes, France.

Dever, S., Welsh, M., Hunstone, M., & Stuetz, R. Assessment of Fugitive Landfill Gas Emissions in Australia. 14th International Waste Management and Landfill Symposium, Sardinia, Italy.

Flocard, F. D., Coghlan, I., Mariani, A., & Blacka, M. Using Remote-Sensing Techniques for the Monitoring of Existing Seawalls. Coasts and Ports 2013: 21st Australasian Coastal and Ocean Engineering Conference 2011 and the 14th Australasian Port and Harbour Conference 3, EA, Sydney.

Ge, L., Li, X., Wu, F., & Turner, I. L. Coastal Erosion Mapping through Integration of SAR and Landsat TM Imagery. IEEE Geoscience and Remote Sensing Symposium (IGARSS). Melbourne, Australia

Johnson, F. M. (2013). Using the Concept of Areal Reduction Factors to Estimate Climate Change Impacts on Extreme Rainfall. 2013 IAHR World Congress, Chengdu.

Khan, S. J. (2013). Stakeholder Assessment of the Benefits, Obstacles and Risks Associated with Potential Direct Potable Water Reuse in Australia. IWA Water Reuse: Blue Resource of the Future, Windhoek, Namibia.

Kobayashi, Y., Peters, G., & Khan, S. J. Towards Harmonised Use of DALYs in Life Cycle Assessment and Quantitative Risk Assessment. 8th ALCAS Conference, Pathways to

Greening Global Markets. NSW Australia.

Li, X., Joll, C., Linge, K., Khan, S., & Henderson, R. K. (2013). Characterisation of Organic Nitrogen-Containing Surrogate Compounds - A Step Towards Defining N-DBP Precursors. Paper presented at the Ozwater'13: Australia's International Water Conference & Exhibition, Perth, Australia.

Maleknia, S., Parcsi, G., & Stuetz, R. (2013). Analysis of Volatile Organic Compounds from Building Materials for Indoor Air Quality Assessment. Paper presented at the 21st International conference of the Clean Air Society of Australia and New Zealand, Sydney.

Moritz, H. R., Cox, R. J., Peirson, W. L., Carley, J. T., and K. White (2013) Transient Effects of Storm-Induced Water Levels and Consequences for Coastal Vulnerability. Coasts & Ports 2013 Conference: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, EA, Sydney.

Munday, D., Cordery, I., & Rubinstein, D. (2013). Dramatic Localised Climate Change Effects on Water Resources. Climate and Land Surface Changes in Hydrology, Gothenburg, Sweden.

Payne, T. E., Boland, D. D., Clark, M. W., Collins, R. N., Comarmond, M. J., Milham, P. J., & Waite, T. D. (2013). Integration of Synchrotron and Radiotracer Techniques in Environmental Contaminant Science. Australian Synchrotron Users Meeting, November 2013, Melbourne.

Roberts, A., Ng, C., Horlyck, A., & Dever, S. A. (2013). The Importance and Value of Good Landfill Planning. Paper presented at the 14th International Waste Management and Land Fill Symposium, S. Margherita di Pula, Cagliari, Italy.

Sanchez-Palacios, J. T., Callahan, D. L., Collins, R. N., Wang, Y. D., Doronila, A. I., Baker, A. J. M., & Woodrow, I. E. (2013). Responses to As in Roots of Eucalyptus spp.: Understanding the Mechanisms of As Tolerance. 12th International Conference on the Biogeochemistry of Trace Elements, Athens, GA, USA.

Shand, T., Shand, R., Reinen-Hamill, R., Carley, T. T., and Cox, R. J., (2013) A Review of Shoreline Response Models to Changes in Sea Level. Coasts & Ports 2013 Conference: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference / National Committee for Coastal and Ocean Engineering, EA, Sydney.

Shutova, Y., Baker, A., Bridgeman, J., & Henderson, R. K. (2013). Linking NOM Character to Treatability with Fluorescence: An Australian Case Study. Ozwater'13: Australia's International Water Conference & Exhibition, Perth, Australia.

Sivret, E., Wang, B., Parcsi, G., & Stuetz, R. (2013). Sewer Odour: More Than Just Rotten Eggs. Paper presented at the 21st International conference of the Clean Air Society of Australia and New Zealand, Sydney.

Splinter, K. D., Turner, I. L., & Davidson, M. A. (2013). How Well Do You Know Your Beach? Monitoring Requirements for the Application of Shoreline Modeling. Coasts & Ports 2013 Conference: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference / National Committee for Coastal and Ocean Engineering, EA, Sydney.

Trinh, T. T., Coleman, H. M., Stuetz, R. M., Le Clech, P., Drewes, J. & Khan, S. J. (2013). Impact of 2, 4 Dinitrophenol Shock on Membrane Bioreactor Performance. Paper presented at the Asia Pacific Water Recycling Conference 2013, Brisbane.

Watterson, E., Messiter, D., Nose, T., Blacka, M. and Warren, L. (2013). Optimising Design of Gladstone Tug Berth Marina. Coasts & Ports 2013 Conference: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference, EA, Sydney.

Wiedmann, T., Crawford, R., Seo, S., & Giesekam, J. (2013). Industrial Ecology Virtual Laboratory and its Application to Sustainability and Environmental Engineering – The Case of Low Carbon Living. Sustainable Engineering Society (SEng), National Convention Centre, Canberra, ACT, Australia.

Yap, R. K., Whittaker, M., Peirson, W., Jefferson, B., Bulmus, V., Stuetz, R. Henderson, R. (2013). Cyanobacteria Removal with Polymer Decorated Micro-Bubbles in Dissolved Air Flotation. OzWater13: Australia's International Water Conference & Exhibition, Perth, Australia.

Yuan, F., & Cox, R. J. (2013). Modelling Coastal Process for Long-term Shoreline Change. Coasts & Ports 2013 Conference: 21st Australasian Coastal and Ocean Engineering Conference and the 14th Australasian Port and Harbour Conference / National Committee for Coastal and Ocean Engineering, EA, Sydney.

## Refereed Journal Publications

Almeida, L. P., Masselink, G., Russell, P., Davidson, M., Poate, T., McCall, R., Turner, I. (2013). Observations of the Swash Zone on a Gravel Beach During a Storm Using a Laser-Scanner (Lidar). *Journal of Coastal Research (Spec. Issue 65)*, 636-641. doi: 10.2112/si65-108.

Alturki, A. A., McDonald, J. A., Khan, S. J., Price, W. E., Nghiem, L. D., & Elimelech, M. (2013). Removal of Trace Organic Contaminants by the Forward Osmosis Process. *Separation and Purification Technology*, 103(C), 258-266. doi: 10.1016/j.seppur.2012.10.036.

Alvarez-Gaitan, J. P., Peters, G. M., Rowley, H. V., Moore, S., & Short, M. D. (2013). A Hybrid Life Cycle Assessment of Water Treatment Chemicals: An Australian Experience. *The International Journal of Life Cycle Assessment*, 18(7), 1291-1301. doi: 10.1007/s11367-013-0574-4.

Andela, N., Liu, Y. Y., van Dijk, A. I. J. M., de Jeu, R. A. M., & McVicar, T. R. (2013). Global Changes in Dryland Vegetation Dynamics (1988–2008) Assessed By Satellite Remote Sensing: Comparing A New Passive Microwave Vegetation Density Record With Reflective Greenness Data. *Biogeosciences*, 10(10), 6657-6676. doi: 10.5194/bg-10-6657-2013.

Barbosa, V. L., & Stuetz, R. M. (2013). Performance of Activated Sludge Diffusion for Biological Treatment of Hydrogen Sulphide Gas Emissions. *Water Science & Technology*, 68(9), 1932-1932. doi: 10.2166/wst.2013.444.

Barrett, J., Peters, G., Wiedmann, T., Scott, K., Lenzen, M., Roelich, K., & Le Quéré, C. (2013). Consumption-based GHG Emission Accounting: a UK Case Study. *Climate Policy*, 13(4), 451-470. doi: 10.1080/14693062.2013.788858.

- Bertoncello, A., Sun, T., Li, H., Mariethoz, G., & Caers, J. (2013). Conditioning Surface-based Geological Models to Well and Thickness Data. *Mathematical Geosciences*, 45(7), 873-893. doi: 10.1007/s11004-013-9455-4.
- Boland D. D., Collins R. N., Glover C. J. & Waite D. T. (2013). An In situ Quick-EXAFS and Redox Potential Study of the Fe(II)-Catalysed Transformation of Ferrihydrite, Colloids and Surfaces A: Physicochemical and Engineering Aspects, Vol. 435, pp. 2 - 8, <http://dx.doi.org/10.1016/j.colsurfa.2013.02.009>.
- Cabeza, I. O., López, R., Giraldez, I., Stuetz, R. M., & Díaz, M. J. (2013). Biofiltration of  $\alpha$ -pinene Vapours Using Municipal Solid Waste (MSW) – Pruning Residues (P) Composts as Packing Materials. *Chemical Engineering Journal*, 233(C), 149-158. doi: 10.1016/j.cej.2013.08.032.
- Coleman, H. M., Trinh, T., Le-Minh, N., Klein, M., Roser, D. J., Tucker, R. W., Khan, S. J. (2013). Occurrence of Ectoparasitocides in Australian Beef Cattle Feedlot Wastes. *Environmental Pollution*, 174(C), 265-272. doi: 10.1016/j.envpol.2012.11.018.
- Cortis, A., Puente, C. E., Huang, H. H., Maskey, M. L., Sivakumar, B., & Obregón, N. (2013). A Physical Interpretation of the Deterministic Fractal–multifractal Method as a Realization of a Generalized Multiplicative Cascade. *Stochastic Environmental Research and Risk Assessment*. Vol. 28, Issue 26, pp 1421-1429 doi: 10.1007/s00477-013-0822-y.
- Davidson, M. A., Splinter, K. D., & Turner, I. L. (2013). Corrigendum to "A Simple Equilibrium Model for Predicting Shoreline Change", *Coastal Engineering*, 75, (May 2013) p.91-91. doi: 10.1016/j.coastaleng.2013.01.005.
- Davidson, M. A., Splinter, K. D., & Turner, I. L. (2013). A Simple Equilibrium Model for Predicting Shoreline Change. *Coastal Engineering*, 73, (March 2013) p.191-202. doi: 10.1016/j.coastaleng.2012.11.002.
- Dever, S., Swarbrick, G., & Stuetz, R. (2013). Biofiltration of Landfill Gas Under Temperate Climatic Conditions. *Air Quality and Climate Change*, 47(2), 20-25. 1836-5884
- D'Haese, A., Le-Clech, P., Van Nevel, S., Verbeken, K., Cornelissen, E. R., Khan, S. J., & Verliefde, A. R. D. (2013). Trace Organic Solutes in Closed-loop Forward Osmosis Applications: Influence of Membrane Fouling and Modeling of Solute Build-up. *Water Research*, 47(14), 5232-5244. doi: 10.1016/j.watres.2013.06.006.
- Dorantes-Aranda, J. J., Nichols, P. D., Waite, T.D., & Hallegraeff, G. M. (2013). Strain Variability in Fatty Acid Composition of (Raphidophyceae) and its Relation to Differing Ichthyotoxicity toward Rainbow Trout Gill Cells. *Journal of Phycology*, 49(2), 427-438. doi: 10.1111/jpy.12053.
- Dunlop, M., Ristovski, Z. D., Gallagher, E., Parcsi, G., Modini, R. L., Agranovski, V., & Stuetz, R. M. (2013). Odour, Dust and Non-methane Volatile Organic-compound Emissions from Tunnel-Ventilated Layer-Chicken Sheds: A Case Study of Two Farms. *Animal Production Science*. 53 (12) pp 1309-1318 doi: 10.1071/an12343.
- Duval, J. F. L., Thomas, F., Michot, L., Hubbard, A., & Waite, T.D. (2013). Interfaces Against Pollution: A 'Rendez-Vous' Between Colloid Physical Chemistry and (bio) Geoscience. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 435(C), 1-1. doi: 10.1016/j.colsurfa.2013.02.010.
- Ershadi, A., McCabe, M. F., Evans, J. P., Mariethoz, G., & Kavetski, D. (2013). A Bayesian

Analysis of Sensible Heat Flux Estimation: Quantifying Uncertainty in Meteorological Forcing to Improve Model Prediction. *Water Resources Research*, 49(5), 2343-2358. doi: 10.1002/wrcr.20231.

Ershadi, A., McCabe, M. F., Evans, J. P., & Walker, J. P. (2013). Effects of Spatial Aggregation on the Multi-Scale Estimation of Evapotranspiration. *Remote Sensing of Environment*, 131(C), 51-62. doi: 10.1016/j.rse.2012.12.007.

Esquiroz-Molina, A., Georgaki, S., Stuetz, R., Jefferson, B., & McAdam, E. J. (2013). Influence of pH on Gas Phase Controlled Mass Transfer in a Membrane Contactor for Hydrogen Sulphide Absorption. *Journal of Membrane Science*, 427(C), 276-282. doi: 10.1016/j.memsci.2012.10.005.

Evans, J. P., & McCabe, M. F. (2013). Effect of Model Resolution on a Regional Climate Model Simulation over Southeast Australia. *Climate Research*, 56(2), 131-145. doi: 10.3354/cr01151.

Fujioka, T., Khan, S. J., McDonald, J. A., Henderson, R. K., Poussade, Y., Drewes, J. E., & Nghiem, L. D. (2013). Effects of Membrane Fouling on N-nitrosamine Rejection by Nanofiltration and Reverse Osmosis Membranes. *Journal of Membrane Science*, 427(C), 311-319. doi: 10.1016/j.memsci.2012.09.055.

Fujioka, T., Khan, S. J., McDonald, J. A., Roux, A., Poussade, Y., Drewes, J. E., & Nghiem, L. D. (2013). N-nitrosamine Rejection by Nanofiltration and Reverse Osmosis Membranes: The Importance of Membrane Characteristics. *Desalination*, 316(C), 67-75. doi: 10.1016/j.desal.2013.01.028.

Fujioka, T., Khan, S. J., McDonald, J. A., Roux, A., Poussade, Y., Drewes, J. E., & Nghiem, L. D. (2013). N-nitrosamine Rejection by Reverse Osmosis Membranes: A Full-scale Study. *Water Research*, 47(16), 6141-6148. doi: 10.1016/j.watres.2013.07.035.

Fujioka, T., Khan, S. J., McDonald, J. A., Roux, A., Poussade, Y., Drewes, J. E., & Nghiem, L. D. (2014). N-nitrosamine Rejection by Reverse Osmosis: Effects of Membrane Exposure to Chemical Cleaning Reagents. *Desalination*, 343(C), 60-66. doi: 10.1016/j.desal.2013.10.032.

Fujioka, T., Oshima, N., Suzuki, R., Khan, S. J., Roux, A., Poussade, Y., Nghiem, L. D. (2013). Rejection of Small and Uncharged Chemicals of Emerging Concern by Reverse Osmosis Membranes: The Role of Free Volume Space within the Active Skin Layer. *Separation and Purification Technology*, 116(C), 426-432. doi: 10.1016/j.seppur.2013.06.015.

Garg, S., Ito, H., Rose, A. L., & Waite, T. D. (2013). Mechanism and Kinetics of Dark Iron Redox Transformations in Previously Photolyzed Acidic Natural Organic Matter Solutions. *Environmental Science & Technology*, 47(4), 1861-1869. doi: 10.1021/es3035889.

Garg, S., Jiang, C., Miller, C. J., Rose, A. L., & Waite, T. D. (2013). Iron Redox Transformations in Continuously Photolyzed Acidic Solutions Containing Natural Organic Matter: Kinetic and Mechanistic Insights. *Environmental Science & Technology*, 47(16), 9190-9197. doi: 10.1021/es401087q.

Grare, L., Peirson, W. L., Branger, H., Walker, J. W., Giovanangeli, J. P., & Makin, V. (2013). Growth and Dissipation of Wind-forced, Deep-water Waves. *Journal of Fluid Mechanics*, 722, 5-50. doi: 10.1017/jfm.2013.88.

Griffiths, A. D., Parkes, S. D., Chambers, S. D., McCabe, M. F., & Williams, A. G. (2013). Improved Mixing Height Monitoring Through a Combination of Lidar and Radon Measurements. *Atmospheric Measurement Techniques*, 6(2), 207-218. doi: 10.5194/amt-6-207-2013.

Habib, H., Anceno, A. J., Fiddes, J., Beekma, J., Ilyuschenko, M., Nitivattananon, V., & Shipin, O. V. (2013). Jumpstarting Post-conflict Strategic Water Resources Protection from a Changing Global Perspective: Gaps and Prospects in Afghanistan. *Journal of Environmental Management*, 129(C), 244-259. doi: 10.1016/j.jenvman.2013.07.019.

Hashim, N. H., Stuetz, R. M., & Khan, S. J. (2013). Enantiomeric Fraction Determination of 2-Arylpropionic Acids in a Package Plant Membrane Bioreactor. *Chirality*, 25(5), 301-307. doi: 10.1002/chir.22151.

He, D., Bligh, M. W., & Waite, T. D. (2013). Effects of Aggregate Structure on the Dissolution Kinetics of Citrate-Stabilized Silver Nanoparticles. *Environmental Science & Technology*, 47(16), 9148-9156. doi: 10.1021/es400391a.

He, D., Ikeda-Ohno, A., Boland, D. D., & Waite, T. D. (2013). Synthesis and Characterization of Antibacterial Silver Nanoparticle-Impregnated Rice Husks and Rice Husk Ash. *Environmental Science & Technology*, 47(10), 5276-5284. doi: 10.1021/es303890y.

Hering, J. G., Waite, T. D., Luthy, R. G., Drewes, J. E., & Sedlak, D. L. (2013). A Changing Framework for Urban Water Systems. *Environmental Science & Technology*, 47(19), 10721-10726. doi: 10.1021/es4007096.

Hoinaski, L., Franco, D., Stuetz, R. M., Sivret, E. C., & de Melo Lisboa, H. (2013). Investigation of PM Sources in Santa Catarina, Brazil Through Graphical Interpretation Analysis Combined with Receptor Modelling *Environmental Technology*, 34(17), 2453-2463. doi: 10.1080/21622515.2013.772659.

Ishak, E. H., Rahman, A., Westra, S., Sharma, A., & Kuczera, G. (2013). Evaluating the Non-stationarity of Australian Annual Maximum Flood. *Journal of Hydrology*, 494(C), 134-145. doi: 10.1016/j.jhydrol.2013.04.021.

Jagals, P., Barnard, T., Mokoena, M. M., Ashbolt, N. J., & Roser, D. (2013). Pathogenic *Escherichia Coli* in Rural Household Container Waters. *Water Science and Technology*, 67(6), 1230-1237. doi: 10.2166/wst.2013.677.

Jeremiah, E., Marshall, L., & Sharma, A. (2013). Modelling and Understanding the Hierarchy in a Mixture of Experts Using Multiple Catchment Descriptors. *Journal of Hydrology*, 507(C), 273-286. doi: 10.1016/j.jhydrol.2013.09.049.

Jeremiah, E., Marshall, L., Sisson, S. A., & Sharma, A. (2013). Specifying a Hierarchical Mixture of Experts for Hydrologic Modeling: Gating Function Variable Selection. *Water Resources Research*, 49(5), 2926-2939. doi: 10.1002/wrcr.20150.

Jha, S. K., Mariethoz, G., & Kelly, B. F. J. (2013). Bathymetry Fusion using Multiple-point Geostatistics: Novelty and Challenges in Representing Non-stationary Bedforms. *Environmental Modelling & Software*, 50(C), 66-76. doi: 10.1016/j.envsoft.2013.09.001.

Jiang, Z., Mariethoz, G., Taulis, M., & Cox, M. Determination of Vertical Hydraulic Conductivity of Aquitards in a Multilayered Leaky System Using Water-level Signals in Adjacent Aquifers. *Journal of Hydrology*, 500(C), 170-182. doi: 10.1016/j.jhydrol.2013.07.030.

Jiang, Z., Schrank, C., Mariethoz, G., & Cox, M. (2013). Permeability Estimation Conditioned to Geophysical Downhole Log Data in Sandstones of the Northern Galilee Basin, Queensland: Methods and Application. *Journal of Applied Geophysics*, 93(C), 43-51. doi: 10.1016/j.jappgeo.2013.03.008.

Jones, L. A., Muhlfeld, C. C., Marshall, L. A., McGlynn, B. L., & Kershner, J. L. (2014). Estimating Thermal Regimes of Bull Trout and Assessing the Potential Effects of Climate Warming on Critical Habitats River Research and Applications, 30(2), 204-216. doi: 10.1002/rra.2638.

Kaucner, C. E., Whiffin, V., Ray, J., Gilmour, M., Ashbolt, N. J., Stuetz, R., & Roser, D. J. (2013). Can Off-river Water and Shade Provision Reduce Cattle Intrusion into Drinking Water Catchment Riparian Zones? *Agricultural Water Management*, 130(C), 69-78. doi: 10.1016/j.agwat.2013.08.012.

Khan, S. J., Wang, L., Hashim, N. H., & McDonald, J. A. (2013). Distinct Enantiomeric Signals of Ibuprofen and Naproxen in Treated Wastewater and Sewer Overflow. *Chirality*, doi: 10.1002/chir.22258.

Khan, U., Tuteja, N. K., & Sharma, A. (2013). Delineating Hydrologic Response Units in Large Upland Catchments and its Evaluation Using Soil Moisture Simulations. *Environmental Modelling & Software*, 46(C), 142-154. doi: 10.1016/j.envsoft.2013.03.005.

Kothawala, D. N., Murphy, K. R., Stedmon, C. A., Weyhenmeyer, G. A., & Tranvik, L. J. (2013). Inner Filter Correction of Dissolved Organic Matter Fluorescence. *Limnology and Oceanography: Methods*, 11, 616-630. doi: 10.4319/lom.2013.11.616.

Le, H., Sivret, E. C., Parcsi, G., & Stuetz, R. M. (2013). Stability of Volatile Sulfur Compounds (VSCs) in Sampling Bags – Impact of Temperature. *Water Science & Technology*, 68(8), 1880-1880. doi: 10.2166/wst.2013.445.

Lenzen, M., Dey, C., Foran, B., Widmer-Cooper, A., Ohlemüller, R., Williams, M., & Wiedmann, T. (2013). Modelling Interactions between Economic Activity, Greenhouse Gas Emissions, Biodiversity and Agricultural Production. *Environmental Modeling & Assessment*, 18(4), 377-416. doi: 10.1007/s10666-012-9341-3

Li, J., & Sharma, A. (2013). Evaluation of Volcanic Aerosol Impacts on Atmospheric Water Vapor Using CMIP3 and CMIP5 Simulations. *Journal of Geophysical Research: Atmospheres*, 118(10), 4448-4457. doi: 10.1002/jgrd.50420.

Li, X., Liu, L., Liu, T., Yuan, T., Zhang, W., Li, F., Li, Y. (2013). Electron Transfer Capacity Dependence of Quinone-Mediated Fe(III) Reduction and Current Generation by *Klebsiella pneumoniae* L17. [*Chemosphere*, 92(2), 218-224. doi: 10.1016/j.chemosphere.2013.01.098.

Liu, T., Li, X., & Waite, T. D. (2013). Depassivation of Aged Fe by Inorganic Salts: Implications to Contaminant Degradation in Seawater. *Environmental Science & Technology*, 47 (13) pp 7350-7356 doi: 10.1021/es400362w.

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