

Publications for 2010

Book - Scholarly Research

Khan, SJ (2010) Quantitative Chemical Exposure Assessment for Water Recycling Schemes, National Water Commission, Canberra.

Book - Edited

Sivakumar, B., & Berndtsson, R (ed) (2010) Advances in Data-Based Approaches for Hydrologic Modeling and Forecasting, World Scientific Publishing Co., Singapore.

Chapter - Scholarly Research

Huda, S, Mehrotra, R, & Sharma, A (2010) Adaptation Strategies in Coping with Climate, Climate Change and Food Security in South Asia, pp.325-342, Springer.

Jury, K, Stuetz, RM, & Khan, SJ (2010) Antibiotic resistance dissemination and sewage treatment plants, Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology, pp. 509-519, Formatex.

Khan, SJ (2010) Chapter 6: Safe management of chemical contaminants for planned potable water recycling, Sustainable Water, 1st edition, pp. 114 - 137. Royal Society of Chemistry, RSC Publishing, Cambridge.

Sharma, A, & Mehrotra, R (2010) Rainfall Generation, Rainfall: State of the Science, pp. 215 - 246. American Geophysical Union, Washington, DC.

Sivakumar, B (2010) Chaos Theory for Hydrologic Modeling and Forecasting: Progress and Challenges, Handbook of Research on Hydroinformatics: Technologies, Theories and Applications, 1st edition, pp. 199 – 227. IGI-Global, USA.

Sivakumar, B, & Berndtsson, R (2010) Nonlinear Dynamics and Chaos in Hydrology, Advances in Data-Based Approaches for Hydrologic Modeling and Forecasting, 1st edition, pp. 411 – 461. World Scientific Publishing Company, Singapore.

Sivakumar, B, & Berndtsson, R (2010) Setting the Stage, Advances in Data-Based Approaches for Hydrologic Modeling and Forecasting, 1st edition, pp. 1 - 16. World Scientific Publishing Company, Singapore.

Sivakumar, B, & Berndtsson, R (2010) Summary and Future, Advances in Data-Based Approaches for Hydrologic Modeling and Forecasting, 1st edition, pp. 463 - 477. World Scientific Publishing Company, Singapore.

Sohn, J, Stuetz, RM, & Atzeni, M (2010) Non-specific chemical gas sensor arrays for environmental monitoring of odorous emissions, Chemical Sensors: Properties, Performance and Applications, pp. 147 – 168. Nova Science Publishers.

Journal - Refereed & Scholarly Article

Alturki, A, Tadkaew, N, McDonald, J, Khan, SJ, Price W & Nghiem LD (2010) 'Combining MBR and NF/RO membrane filtration for the removal of trace organics in indirect potable water reuse applications', *Journal of Membrane Science* , 365, pp. 206 - 215.

Amal, R, Vescovi, T, & Coleman, H (2010) 'The effect of pH on UV based advanced oxidation technologies- 1,4 Dioxane degradation', *Journal of Hazardous Materials* , 182, pp. 75 - 79.

Ashbolt, N.J, Schoen, ME, Soller, JA, & Roser, DJ (2010) 'Predicting pathogen risks to aid beach management: The real value of quantitative microbial risk assessment (QMRA)', *Water Research* , 44, pp. 4692 - 4703.

Atzeni, M, Sohn, J, & Stuetz, RM (2010) 'Addressing the market demands for artificial olfaction systems.' *Chemical Engineering Transactions* , 23, pp. 135 - 140.

Barnes, R, & Ashbolt, N (2010) 'Development of a planning framework for sustainable rural water supply and sanitation: A case study of a filipino NGO', *International Studies of Management and Organization* , 40, pp. 78 - 98.

Birk, C, & Song, C (2010) 'A local high-order doubly asymptotic open boundary for diffusion in a semi-infinite layer', *Journal of Computational Physics*, 229, pp. 6156 - 6179.

Birk, C, & Song, C (2010) 'An improved non-classical method for the solution of fractional differential equations', *Computational Mechanics* , 46, pp. 721 - 734.

Blenkinsopp, CE, & Chaplin, JR (2010) 'Bubble Size Measurements in Breaking Waves Using Optical Fiber Phase Detection Probes', *IEEE Journal of Oceanic Engineering* , 35, pp. 388 - 401.

Blenkinsopp, CE, Mole, MA, Turner, IL, & Peirson, WL (2010) 'Measurements of the time-varying free-surface profile across the swash zone obtained using an industrial LIDAR', *Coastal Engineering* 57, pp. 1059 - 1065.

Blenkinsopp, CE, Turner, IL, Masselink, G, & Russell, PE (2010) 'Swash Zone Sediment Fluxes: Field Observations', *Coastal Engineering*, 58, pp. 28 - 44.

Blenkinsopp, CE, Turner, IL, Masselink, G, & Russell, PE (2010) 'Validation of volume continuity method for estimation of cross-shore swash flow velocity', *Coastal Engineering*, 57, pp. 953 - 958.

Bligh, MW, & Waite, TD (2010) 'Formation, aggregation and reactivity of amorphous ferric oxyhydroxides on dissociation of Fe(III)-organic complexes in dilute aqueous suspensions', *Geochimica et Cosmochimica Acta* , 74, pp. 5746 - 5762.

Bligh, MW, & Waite, TD (2010) 'Role of Heterogeneous Precipitation in Determining the Nature of Products Formed on Oxidation of Fe(II) in Seawater Containing Natural Organic Matter', *Environmental Science and Technology* , 44, pp. 6667 - 6673.

Cendan, DI, Larsen, JR, Jones, BG, Nanson, GC, Rickleman, D, Hankin, SI, Pueyo, JJ, Maroulis, J (2010) 'Freshwater recharge into a shallow saline groundwater system, Cooper Creek floodplain, Queensland, Australia', *Journal of Hydrology* 392, pp. 150 - 163.

Chernicharo, CA, Aquino, S, Sperling, M, Stuetz, RM, Santos, Mabub, M, Moreira, M, Vasconcelos, O, Gloria, R (2010) 'Conceptual analysis of the UASB/polishing pond system regarding the removal of surfactants, micro pollutants and control of gaseous emissions ', *Water Science and Technology* , 61, pp. 1211 - 1218.

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Journal - Other Refereed Article

- Short, M, Peters, G, Schulz M, Peirson W, Stuetz, R & Cox, RJ (2010) 'Challenges in adapting Australian water resources and water infrastructure to climate change', *Water*, 37, pp. 42 - 48.

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Conference - Full Paper Refereed

Glamore, WC, Rayner, DS & Miller, BM (2010) 'Design of an Ebb Tide Release', Australasian Coasts and Ports Conference 2009, Wellington, New Zealand, 16 - 18 September 2009, .

Glamore, WC (2010) 'Restoring Coastal Wetlands: Engineering Nature and Managing Expectations', Australasian Coasts and Ports Conference 2009, Wellington, New Zealand, 16 - 18 September 2009.

Horne, S & Peirson, WL (2010) 'Interactions between Straight Channels and Their Floodplains', 32nd Hydrology and Water Resources Symposium, Newcastle, November 2009.

Parcsi, GP, Sivret, EC, Wang, X & Stuetz, RM (2010) 'Fate of Sulfur Odorants in Odour Assessment', Odours Specialty Conference, The Citigate Hotel, Sydney, 24 - 25 August (2010).

Rayner, DS, & Glamore, WC (2010) 'Understanding the Transport and Buffering Dynamics of Acid Plumes in Estuaries', Australasian Coasts and Ports Conference 2009, Wellington, New Zealand, 16 - 18 September 2009.

Shand, TD, Cox, RJ, Smith, GP & Blacka, MJ (2010) 'Appropriate Criteria for the Safety and Stability of People in Stormwater Design', National Conference of the Stormwater Industry Association, Sydney, Australia, 8th -12th November (2010).

Short, M & Peters, G (2010) 'Challenges in adapting water resources and water infrastructure to climate change a review', International Waters Association 5th Young Water Professional Conference, Sydney, 5 - 7 July (2010).

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Sivret, EC & Stuetz, RM (2010) 'Odour Management Practices in Sewer Abatement Monitoring - Australian Survey', Odours Specialty Conference, The Citigate Hotel, Sydney, 24 - 25 August (2010).

Sivret, EC, Parcsi, GP & Stuetz, RM (2010) 'Sampling and Analysis Methodology Concerns for Volatile Organo-Sulfur Compounds (VOSCs)', Air & Waste Management Association 103rd Annual Conference & Exhibition, Calgary, Canada, June (2010).

Sohn, J, Atzeni, M & Stuetz, RM (2010) 'Sensor Array Systems for Odour Assessment: Technology Trends and Issues', Odours Specialty Conference, The Citigate Hotel, Sydney, 24 - 25 August (2010).

Subhi, N, Henderson, RK, Stuetz, RM & Chen, V(2010) 'Potential of fluorescence excitation-emission matrix (FEEM) analysis for foulant characterisation in membrane bioreactors (MBRs)', 7th International Membrane Science and Technology Conference, Sydney, Australia, 22-26th November.

Wang, X, Guan, J, Foster, P, Mullett, M, Anderson, P & Stuetz, RM (2010) 'Odour treatment of high temperature condensate from aluminium processes ', Odours Specialty Conference, The Citigate Hotel, Sydney, 24 - 25 August (2010).

Wang, X, Parcsi, GP, Cesca, J & Sivret, EC (2010) 'Olfactory characterisation of NMVOC emissions from WWTP inlet works', Odours Specialty Conference, The Citigate Hotel, Sydney, 24 - 25 August (2010).

van den Akker, Whiffin, V, Cox, P & Ashbolt, NJ (2010) 'Estimating the Relative Risk from Sewage Treatment Plant Effluent in the Sydney Catchment Area', International Waters Association 5th Young Water Professional Conference, Sydney, 5 - 7 July (2010).

Conference - Full Paper, Not Refereed

Beya, JF, Peirson, WL & Banner, ML (2010) 'Attenuation of gravity waves by turbulence', International Conference on Coastal Engineering, Shanghai, China (2010).

Carley, JT, Shand, TD, Coghlan, IR & Blacka, MJ (2010) 'Beach scraping as a coastal management option', 19th NSW Coastal Conference (2010) Batemans Bay, NSW, 10-12 November (2010).

Coad, P, Kadluczka, R, Cathers, B, Van Senden, D (2010) 'A telemetric monitoring system for estuarine algal bloom management', 18th New South Wales Coastal Conference 2009, Ballina NSW, 3 - 6 November 2009.

Henderson, RK & Jefferson, B (2010) 'Coagulating algae: recent developments for improved removal', 1st AWA National Operations Conference, Sydney Olympic Park, Australia, 13-15th September, (2010).

Jacqueline Thomas, Storey, M, Thomas, T & Stuetz, RM (2010) 'Diversity of free-living amoebal pathogen hosts in a dual distribution (drinking and recycled) water system', American Water Works Association - Water Quality Technology Conference, Savannah, Georgia U.S.A, 14 - 18th November (2010).

Mariani, A, Carley, JT & Miller, BM (2010) 'Infilling and Sand Bypassing of Coastal Structures and Headlands by Littoral Drift', 19th NSW Coastal Conference, Batemans Bay NSW, 10-12 November.

Shand, TD, Goodwin, I, Carley, JT & Mole, MA (2010) 'Coastal Storms and Extreme Waves', NSW Coastal Conference, Batemans Bay, NSW, (2010).

Shand, TD, Peirson, WL & Cox, RJ (2010) 'The Effect of Wave Groupiness on Engineering Design', International Conference on Coastal Engineering, Shanghai, China, (2010).

Tarbotton, C, Dominey-howes, D, Goff, J & Turner, IL (2010) 'From source to impact: integrating hydrodynamic models into Tsunami vulnerability assessment models', Indian Ocean Tsunami Modelling Symposium, Freemantle, WA, 12 - 15 October.

Turner, IL & Harley, MD (2010) 'Wave climate variability and coastal change - the value of sustained coastal monitoring around Australia's coastline', Australian Wind Waves Research Science Symposium, Gold Coast, Queensland, 19-20 May.

Conference - Abstract Only

Bligh, MW & Waite, TD (2010) 'Impact of amorphous ferric oxide reactions during the dissociation of organically complexed Fe(III)', Goldschmidt, Knoxville, Tennessee, USA, 13 - 18 June (2010).

Boland, DD, Collins, RN, Payne, TE & Waite, TD (2010) 'The inhibitory effect of silicate on the Fe(II)-catalysed sequestration of U by Fe(III) oxides', Goldschmidt, Knoxville, Tennessee, USA, 13 - 18 June (2010).

Boland, DD, Collins, RN & Waite, TD (2010) 'Using X-ray absorption spectroscopy to examine the fate of uranium during iron oxide mineral transformation', Australian Synchrotron users meeting, Melbourne, Australia, November, (2010).

Collins, RN, Boland, DD, Rose, AL & Glover, C (2010) 'Application of quick XAFS to elucidate the ferric iron coordination environment (and evidence for tetrahedral iron) in ferrihydrite', Australian Synchrotron Users Meeting (2010) Melbourne, Australia, 22 - 24 November (2010).

Collins, RN, Payne, TE & Waite, TD (2010) 'Is there a link between Fe(III) oxide reactivity, Fe(II)-catalysed crystallisation and U(VI) reduction?' Goldschmidt, Knoxville, Tennessee, USA, 13 - 18 June (2010).

Couriel, E & Carley, JT (2010) 'Surfing reefs - dollars and sense', 7th International Surfing Reef Symposium, Bondi Beach, 19 March (2010).

Dever, SA, Swarbrick, GE & Stuetz, RM (2010) 'Performance of passive biofiltration for mitigating methane emissions from landfills', Conference on Biofiltration for Air Pollution Control, Washington D.C., 28-29 October.

Dore, M, Collins, RN, Payne, TE & Rose, J (2010) 'Identification of the mineral phases controlling Co immobilisation in soils and sediments', Melbourne, Australia, November (2010).

Henderson, RK, Parsons, SA & Jefferson, B (2010) 'The use of positively charged bubbles in DAF for algae removal', National Japan Water and Environmental Technology conference (WET (2010)), Yokohama, Japan, 25-26th June (2010).

Jones, AM, Collins, RN & Waite, TD (2010) 'Mineral species controlling the solubility of Al in acid sulfate soil waters', Goldschmidt, Knoxville, Tennessee, USA, 13 - 18 June (2010).

Jones, AM, Waite, TD, He, D, Garg, S & Collins, RN (2010) 'Production of Reactive Oxygen Species by Silver Nanoparticles - Implications for Bactericidal Activity', AOTs-16: 16th International Conference on Advanced Oxidation Technologies for Water and Air Remediation, San Diego, California, USA, 15-18 November (2010).

Kinsela, AS, Collins, RN & Waite, TD (2010) 'Speciation and transport of arsenic in an acid sulfate soil-dominated catchment, eastern Australia', Australian Synchrotron Users Meeting (2010) Melbourne, Australia, 22 - 24 November (2010).

Lin, Y, Munroe, P, Joseph, S, Hook, J & Henderson, RK (2010) 'Formation, structure and stability of biochar-mineral complexes', International Biochar Initiative, 3rd International Conference, Rio de Janeiro, Brazil, 12-15th September, (2010).

Linge, KL, Liew, D, Joll, C, Heitz A, & Henderson, RK (2010) 'Formation of nitrogenous disinfection by-products (N-DBPs) in raw and treated drinking water', (2010) International Chemical Congress of Pacific Basin Societies (Pacifichem), Honolulu, Hawaii, USA, 15-20th December (2010).

Mariani, A (2010) 'Infilling and Sand Bypassing of Coastal Structures and Headlands by Littoral Drift', Coasts to Coasts, Adelaide, 20-24 September.

Parcsi, GP, Wang, X, Sivret, EC & Stuetz, RM (2010) 'Are we treating the right odorants in odour abatement processes?' Conference on Biofiltration for Air Pollution Control, Washington D.C., 28-29 October.

Payne, TE, Cendon, DI, Collins, RN, Dore, M, Hankin, S, Harrison JJ, Hughes, C, Johansen, MP, Thiruvoth, S, Twining, JR & Wilsher, K (2010) 'Assessment of radionuclide distributions at an Australian legacy radioactive waste site', 11th South Pacific Environmental Radioactivity Conference, Gold Coast, Australia, 31 August - 3 September (2010).

Payne, TE, Collins, RN & Clark, M (2010) 'EXAFS studies of trace metal immobilisation by a modified red mud', Australian Synchrotron Users Meeting (2010) Melbourne, Australia, 22 - 24 November (2010).

Payne, TE, Comarmond, J, Collins, RN & Waite, TD (2010) 'Ligand effects on uranium sorption - key processes and models', 11th South Pacific Environmental Radioactivity Conference, Gold Coast, Australia, 31 August – 3 September (2010).

Shand, TD (2010) 'The use of physical and numerical models for coastal applications', NZ Coastal Society Conference, Whitianga, New Zealand, (2010).

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Fiona Michelle Johnson - titled "Evaluating and enhancing General Circulation Model simulations for water resources climate change impact assessments." Supervisor - Dr Ashish Sharma

Bradley David Morris - titled "Infilling and sedimentation mechanisms at intermittently open-closed coastal lagoons". He completed his PhD in the WRC, based at the School's Water Research Laboratory." Supervisor - Associate Professor Ian Turner

Gavin Peter Parcsi - "Chemical Analysis of odorants from Poultry Facilities." Supervisor - Professor Richard Stuetz

Tom Shand – "On wave group dynamics in shallow water." Supervisor: R Cox; Co-supervisor: W Peirson