

Issues 1–2

Selected papers presented at CESE-2009 — Challenges in Environmental Science & Engineering, 14–17 July, 2009, Townsville, Queensland, Australia

Editorial

V. Jegatheesan and L. Shu (Townsville, Australia)	1
Analytical solutions for brine discharge plumes on a sloping beach	
H.H. Al-Barwani and A. Purnama (Muscat, Oman).....	2
Bellenden Ker tunnel, power station and a proposed east Mulgrave River water intake for Cairns	
S. Aeberhard (Queensland, Australia)	7
In-situ monitoring of inorganic and microbial synergistic fouling during nanofiltration by UTDR	
Y. Hou, Y. Gao, Y. Cai, X. Xu and J. Li (Tianjin, China).....	15
Coagulation and nano-filtration: A hybrid system for the removal of lower molecular weight organic compounds (LMWOC)	
Y. Wang (Jinan, China), L. Shu, V. Jegatheesan (Townsville, Australia) and B. Gao (Jinan, China).....	23
Effect of coagulants on the fouling and performance of ultrafiltration (UF) membranes	
Y. Wang, X. Xu (Jinan, China), V. Jegatheesan (Townsville, Australia) and B. Gao (Jinan, China)	32
A study on the influence of ionic strength on the elution behaviour of membrane organic foulant using advanced separation tools	
H.K. Shon, S. Puntsho (Sidney, Australia), K. Chon (Gwangju, Korea), R. Aryal, S. Vigneswaran (Sidney, Australia), I.S. Kim and J. Cho (Gwangju, Korea)	38
Effect of backwash and powder activated carbon (PAC) addition on performance of side stream membrane filtration system (SSMFS) on treatment of biological treatment effluent	
P. Smith and S. Vigneswaran (Sidney, Australia)	46
Submerged microfiltration coupled with physico-chemical processes as pretreatment to seawater desalination	
R. Zhang, C. Khorshed, S. Vigneswaran and J. Kandasamy (Sidney, Australia)	52
Evaluating the potential for zero discharge from reverse osmosis desalination using integrated processes – A review	
A. Neilly, V. Jegatheesan and L. Shu (Townsville, Australia)	58
Removal of heavy metals from mining impacted water by an electrocoagulation-ultrafiltration hybrid process	
D. Kumarasinghe, L. Pettigrew and L.D. Nghiem (Wollongong, Australia)	66
Used lubricating oil recycling using a membrane filtration: Analysis of efficiency, structural and composing	
Y. Cao, F. Yan, J. Li, X. Liang and B. He (Tianjin, China)	73
Concepts towards a novel integrated assessment methodology of urban water reuse	
A. Listowski, H.H. Ngo, W.S. Guo, S. Vigneswaran and C.G. Palmer (Sydney, Australia)	81
Resident’s strategy survey on a new end use of recycled water in Australia	
H.H. Ngo, H. Chuang, W.S. Guo, D.P. Ho, T.T.N. Pham, A. Johnston, R. Limand and A. Listowski (Sydney, Australia)	93
Estimating progress of specific deposit in a dual-media BOPS-sand water filter using a matrix approach	
A. Jusoh, A.G. Halim, A. Nora’aini (Serdang, Malaysia), W.B. Wan Nik and E. Azizah (Kuala Terengganu, Malaysia)	98
Simultaneous removal of particles and dissolved organic matter in floating media filter for surface water treatment	
C. Chiemchaisri, S. Passananon (Bangkok, Thailand), H.H. Ngo and S. Vigneswaran (Sydney, Australia)	109
Investigation of household water consumption using smart metering system	
N. Mead and V. Aravinthan (Toowoomba, Australia)	115

Incidence of fecal contamination within a public drinking water supply in Ratta Amral, Rawalpindi I. Hashmi, S. Farooq and S. Qaiser (Islamabad, Pakistan)	124
Performance evaluation of the household ultraviolet water purifier S.H. Shah (Rawalpindi, Pakistan)	132
Evaluating performance and effectiveness of water sensitive urban design G. Singh (Blacktown) and J. Kandasamy (Sidney, Australia)	144
Removal of nitrates from groundwater in remote indigenous settings in arid Central Australia H. Salvestrin (Alice Springs) and P. Hagare (Sidney, Australia)	151

Issue 3

Poly(phthalazinone ether sulfone ketone) properties and their effect on the membrane morphology and performance P. Qin (Beijing, China), B. Han (Lubbock, TX, USA), C. Chen (Beijing, China), S. Takuji (Osaka, Japan), J. Li and B. Sun (Beijing, China)	157
Recovery of Zn (II) from its EDTA complexes by electro-membrane process Z. Yazicigil, Y. Oztekin and A. Kadir Ince (Konya, Turkey)	167
Factors affecting the coagulation of seawater by ferric chloride J. Duan (Xi'an, China, and Singapore), A. Niu (Singapore), D. Shi (Xi'an, China), F. Wilson (Singapore) and N.J.D. Graham (London, UK).....	173
Treatment and degradability of direct dyes in textile wastewater by ozonation: A laboratory investigation K. Turhan and Z. Turgut (Istanbul, Turkey)	184
Characterization and utilization of activated carbons prepared from coffee residue for adsorptive removal of salicylic acid and phenol: Kinetic and isotherm study L. Khenniche and F. Aissani (Bejaia, Algeria)	192
The need for integrated water management in Kuwait M.A. Darwish and F.M. Al Awadhi (Safat, Kuwait)	204
Pilot study for reclamation of the secondary effluent at Changi water reclamation plant J.-J. Qin, K.A. Kekre, M.H. Oo and H. Seah (Singapore)	215
Cork processing wastewater treatment/valorisation by nanofiltration J. Oliveira, M. Nunes, P. Santos, P. Cantinho and M. Minhalma (Lisbon, Portugal)	224
Assessment of aerobic and anaerobic stabilization for biological waste sludges from leather and textile industries E. Pehlivanoglu-Mantas and D.C. Ozturk (Istanbul, Turkey)	229
Application of a novel plasma-based advanced oxidation process for efficient and cost-effective destruction of refractory organics in tertiary effluents and contaminated groundwater I. Even-Ezra, A. Mizrahi (Dalton, Israel), D. Gerrity, S. Snyder (Las Vegas, NV, USA), A. Salveson (Walnut Creek, CA, USA) and O. Lahav (Haifa, Israel)	236
Removal of manganese from surface water with oxidants in supplement to natural manganese sand in Sinopec Shanghai, Ltd. J. He (Auburn, AL, USA), K. Yang (Wuhan, China), M. Dougherty (Auburn, AL, USA), C. Li and Y. Wan (Shanghai, China)	245
Determination of relationship between hardness and groundwater quality parameters by neural networks N. Balkaya, H.K. Ozcan and O.N. Ucan (Istanbul, Turkey)	258
Assessment of the water quality of aquatic resources using biological methods Z. Dulić, V. Poleksić, B. Rašković, N. Lakić, Z. Marković, I. Živić and M. Stanković (Belgrade, Serbia)	264
Treatment of arsenic-contaminated groundwater by a low cost activated alumina adsorbent prepared by partial thermal dehydration M. Sen and P. Pal (Durgapur, India)	275
Brackish water treatment using desalinating device for domestic purpose S. Dixit, P. Baredar and G. Dixit (Bhopal, India)	283
Treatment of dyeing wastewater by hollow fiber membrane biological reactor R.-R. Huang (Jiangsu, China), J. Hoinkis (Karlsruhe, Germany), Q. Hu (Jiangsu, China) and F. Koch (Karlsruhe, Germany)	288
Biosorption of arsenic(III) ion from aqueous solution using <i>Aspergillus fumigatus</i> isolated from arsenic contaminated site S. Maheswari and A.G. Murugesan (Alwarkurichi, India)	294

Eucalyptus bark powder as an effective adsorbent: Evaluation of adsorptive characteristics for various dyes R. Srivastava and D.C. Rupainwar (Lucknow, India)	302
Eco-benign skin preservation through salt substitution—a low salt approach V.J. Sundar and C. Muralidharan (Chennai, India)	314
Functionalized activated carbons for the removal of inorganic pollutants G. Rytwo (Tel Hai and Kyriat Shmona) and Y. Gonen (Tel Hai and Rehovot, Israel)	318
Author Index	324

