

The influence of solute polarizability and molecular volume on the rejection of trace organics in loose nanofiltration membrane processes S. Jeffery-Black and S.J. Duranceau (Orlando, FL, USA)	29059
Valorization of food wastes (orange seeds) as adsorbent for dye retention from aqueous medium D. Suteu, M. Badeanu, T. Malutan and A.-I. Chirculescu (Iasi, Romania)	29070
Investigation of the factors influencing the efficiency of a solar still combined with a solar collector R. Poblete (Coquimbo, Chile), G. Salihoglu and N.K. Salihoglu (Bursa, Turkey)	29082
Landuse and NDVI change analysis of Sperchios river basin (Greece) with different spatial resolution sensor data by Landsat/MSS/TM and OLI V. Markogianni and E. Dimitriou (Anavissos, Greece).....	29092
Performance evaluation of pressure reducing valves using statistical approach in water distribution system Sukmin Yoon, No-Suk Park (Jinju), Young Joo Lee and Doo Yong Choi (Daejeon, Korea).....	29104

Selected papers presented at the 2nd IWA Malaysia Young Water Professionals Conference (YWP15) – Aspiring Beyond Water Solution, March 17–20, 2015, Langkawi Island, Malaysia

Development of polyamide forward osmosis membrane for humic acid removal M.A.M. Yusof, M.N. Abu Seman (Kuantan, Malaysia) and N. Hilal (Swansea, UK)	29113
Isolation and screening of microalgae from agro-industrial wastewater (POME) for biomass and biodiesel sources H. Kamyab, M.F.M. Din, M. Ponraj, A. Keyvanfar, S. Rezanian, S.M. Taib and M.Z. Abd Majid (Skudai, Malaysia).....	29118
Integrated river basin management: incorporating the use of abandoned mining pool and implication on water quality status F.M. Kusin, S.N. Muhammad, M.S.M. Zahar and Z. Madzin (Serdang, Malaysia).....	29126
Regeneration of spent activated carbon from industrial application by NaOH solution and hot water Su-Huan Kow, M.R. Fahmi, C.Z.A. Abidin, Soon-An Ong and N. Ibrahim (Arau, Malaysia).....	29137
Preparation of activated carbon using sea mango (<i>Cerbera odollam</i>) with microwave-assisted technique for the removal of methyl orange from textile wastewater N.H. Azmi, U.F.M. Ali, F.M. Ridwan, K.M. Isa, N.Z. Zulkurnai (Arau) and M.K. Aroua (Kuala Lumpur, Malaysia).....	29143
Biodegradation of COD from wool processing plant effluent utilizing low-cost sequencing batch reactor W.N.S. Din, F. Lananan, S.H. Abdul Hamid and A. Jusoh (Kuala Terengganu, Malaysia)	29153
Multiple aerobic and anaerobic baffled constructed wetlands for simultaneous nitrogen and organic compounds removal H.K. Lehl, Soon-An Ong, Li-Ngee Ho, Yee-Shian Wong, F.N.M. Saad, Yoong-Ling Oon, Yoong-Sin Oon, Chin-Yii Yong and Wei-Eng Thung (Arau, Malaysia).....	29160
Optimization of methane production process from synthetic glucose feed in a multi-stage anaerobic bioreactor R. Shahperi, M.F.M. Din (Johor Bahru), S. Chelliapan (Kuala Lumpur and Johor Bahru), M.A.M. Aris (Johor Bahru), S.B. Selvam, N. Abdullah and M.A.M. Yuzir (Kuala Lumpur, Malaysia)	29168
Operational efficiency and up-coning problem of scavenger wells in lower Indus Basin of Pakistan N.H. Zardari (Skudai, Malaysia and Uthal, Pakistan), S.M. Shirazi (Skudai, Malaysia and Dhaka, Bangladesh), N. Farahen and N. Irena (Skudai, Malaysia)	29178

***Selected papers presented at the conference
Challenges in Environmental Science and Engineering (CESE-2015)
28 September – 2 October 2015, Sydney, Australia***

Editorial

Ho Kyong Shon (Sydney), L.D. Nghiem (Wollongong, Australia), Suhan Kim (Busan, Korea), Z.A. Zakaria (Johor, Malaysia), Leonard Tijing (Sydney), Li Shu and V. Jegatheesan (Melbourne, Australia).....	29192
Performance and optimization of lab-scale membrane bioreactors for synthetic municipal wastewater S. Imran Khan (Sydney, Australia), I. Hashmi, S.J. Khan (Islamabad, Pakistan) and R. Henderson (Sydney, Australia)	29193
Treatment performance and membrane fouling characteristics of inclined-tube anoxic/aerobic membrane bioreactor applied to municipal solid waste leachate A. Kaewmanee, W. Chiemchaisri, C. Chiemchaisri (Bangkok, Thailand) and K. Yamamoto (Tokyo, Japan)..	29201
Kinetics of hydroquinone oxidation by a wire–cylinder dielectric barrier discharge reactor Wei Wang, Shun Wang, Jingwei Feng, Shoujun Yuan, Zhenhu Hu (Hefei, China), J. Muñoz Sierra and Xuedong Zhang (Delft, The Netherlands)	29212
Water reclamation and nitrogen extraction from municipal solid waste landfill leachate L.D. Nghiem, F.I. Hai and A. Listowski (Wollongong, Australia)	29220
Use of pollutant release and transfer register (PRTR) to assess potential risk associated with chemicals in a drinking water supply facility Hyon Wook Ji and Sang-Il Lee (Seoul, Korea)	29228
Water quality assessment and source identification of water pollution in the Banchengzi reservoir, Beijing, China Zi-Wen Yuan, Lei Wang, Tian Lan, Ying Ji and Hua-Zhang Zhao (Beijing, China)	29240
Metal accumulation in benthic invertebrates and sediments at the Kaohsiung ocean disposal site, Taiwan Yun-Ru Ju, Chiu-Wen Chen, Chih-Feng Chen and Cheng-Di Dong (Kaohsiung, Taiwan)	29254
Recovery and application of heavy metals from pickling waste liquor (PWL) and electroplating wastewater (EPW) by the combination process of ferrite nanoparticles Dan Chen, Qian Li, Li Shao, Fan Zhang and Guangren Qian (Shanghai, China)	29264
Metal pollution and ecological risk assessment in the surface sediments of Anping Harbor, Taiwan Cheng-Di Dong, Chih-Feng Chen, Yun-Ru Ju and Chiu-Wen Chen (Kaohsiung, Taiwan)	29274
Strategy to reduce the acclimation period for enrichment of PHA accumulating cultures Zirui Guo, Zhiqiang Chen, Qinxue Wen, Long Huang (Harbin, China), R. Bakke (Porsgrunn, Norway) and Mao-an Du (Harbin, China).....	29286
Re-use of aquaculture wastewater in cultivating microalgae as live feed for aquaculture organisms H. Khatoon (Kuala Terengganu), S. Banerjee (Serdang), M.S. Syahiran, N.B. Mat Noordin, A.M. Ambok Bolong and A. Endut (Kuala Terengganu, Malaysia)	29295
The analysis of microbial community in the biodegradation, electron transfer based on sulfur metabolism integrated (BESI®) process for reverse osmosis concentrate (ROC) treatment by 454-pyrosequencing Chao Wei (Harbin), Wenjie He (Tianjin), Li Wei, Chunying Li, Dong Wei and Jun Ma (Harbin, China)	29303
Effect of biochar on migration and biodegradation of 4-n-nonylphenol (NP) during river-based groundwater recharge with reclaimed water Weifang Ma, Yulin Yan, Mengsi Ma (Beijing, China), Yihan Zhang (Urbana, IL, USA), Chao Nie and Xiaoxiu Lun (Beijing, China)	29316
Competitive sorption and desorption between BDE-47 and BDE-99 by different river- and farmland-based aquifer media Yulin Yan, Weifang Ma (Beijing, China), Yihan Zhang (Urbana, IL, USA), Chao Nie, Hao Guo and Xiaoxiu Lun (Beijing, China)	29328
Ozonation of carbamazepine, diclofenac, sulfamethoxazole and trimethoprim and formation of major oxidation products S.K. Alharbi (Wollongong, Australia and Madinah, Saudi Arabia), W.E. Price, Jinguo Kang (Wollongong, Australia), T. Fujioka (Nagasaki, Japan) and L.D. Nghiem (Wollongong, Australia).....	29340
Functionalized mesoporous silica: absorbents for water purification S. Nasreen (Islamabad and Ravalpindi, Pakistan and College Park, MD, USA), A. Urooj, U. Rafique (Rawalpindi, Pakistan) and S. Ehrman (College Park, MD, USA)	29352

Effects of urban wastewater dilution on growth and biochemical properties of <i>Scenedesmus</i> sp. Zhen Wang, Xu-dong Yao, Ming-sheng Miao, Qing-feng Chen, Qiang Kong, Da-wei Shang, Jiang-ning Yu and Xiao-meng Fu (Jinan, China)	29363
Fe ₃ O ₄ -modified carbon cloth electrode for microbial fuel cells from organic wastewaters Hoang-Jyh Leu, Chiu-Yue Lin (Taichung), Fang-Chih Chang and Ming-Jer Tsai (Nan-Tou, Taiwan)	29371
Study of sludge moisture distribution and dewatering characteristic after cationic polyacrylamide (C-PAM) conditioning Ling-Yun Jin, Pan-Yue Zhang, Guang-Ming Zhang and Jie Li (Beijing, China)	29377
Comparison of two sewer condition assessment protocols in S. Korea Hyunjun Shin, Sangjong Han and Hwankook Hwang (Goyang, Korea).....	29384
Removal competition mechanism of orthophosphate and pyrophosphate by CaFe-Cl-LDHs Yunfeng Xu, Siqi Guo, Wei Xia, Li Dou, Jizhi Zhou, Jia Zhang, Jianyong Liu and Guangren Qian (Shanghai, China)	29393
Preparation, physicochemical, and electrochemical properties of magnetite electrodes for methanol electrocatalytic oxidation in an alkaline medium Cheng-Di Dong, Chiu-Wen Chen and Chang-Mao Hung (Kaohsiung, Taiwan).....	29404
Sulfate radicals from Fe ³⁺ /persulfate system for Rhodamine B degradation Yongsheng Lu, Xingxing Yang, Lu Xu, Zhan Wang, Yunfeng Xu and Guangren Qian (Shanghai, China).....	29411
Rhodamine B removal from aqueous solutions using loofah sponge and activated carbon prepared from loofah sponge Zhi-ping Qi (Jinan and Tai'an), Qun Liu, Zhuang-Rui Zhu, Qiang Kong, Qing-Feng Chen, Chang-Sheng Zhao, Yu-Zhen Liu, Ming-Sheng Miao and Cong Wang (Jinan, China)	29421
Hg ²⁺ -selective fluorescent probe based on rhodamine 6G and its application in aqueous media Lizhu Zhang, Wei Tan, Guizhen Li (Kunming, China), C.J. Barrow, Wenrong Yang (Victoria, Australia) and Hongbin Wang (Kunming, China)	29434
Arsenate removal using a hybrid system of adsorbents and a microfiltration membrane Min-soo Maeng (Yongin), Gwy-am Shin (Suwon), Young-gyun Choi (Gyeongsan) and Seok Dockko (Yongin, Korea)	29439
Adsorptive removal of arsenate using inorganic magnetite particles Younggyun Choi, Phearom San, J.E. Doliente (Gyeongsan), Minsoo Maeng, Seok Dockko (Yongin, Korea) and Euiso Choi (Phnom Penh, Cambodia)	29448
Improved removal of Cd(II) from aqueous solution by synthesized nanozeolite Thi-Huong Pham, Byeong-Kyu Lee, Jitae Kim and Chi-Hyeon Lee (Ulsan, Korea)	29457
Removal of Cr(VI) from aqueous solution using Fe-modified activated carbon prepared from luffa sponge: kinetic, thermodynamic, and isotherm studies Yan-na Wang, Qun Liu (Jinan, China), Li Shu (Melbourne, Australia), Ming-sheng Miao, Yu-zhen Liu and Qiang Kong (Jinan, China)	29467
Recovery of nano-Al ₂ O ₃ from waste aluminum electrolytic solution generated during the manufacturing of capacitors Jun-Yi Wu (Tainan) and Fang-Chih Chang (Nan-Tou, Taiwan)	29479
Adsorptive removal of phenol from aqueous solution on a modified palm shell-based carbon: fixed-bed adsorption studies A. Garba (Batu Pahat), N.S. Nasri (Johor Bahru), H. Basri (Batu Pahat), R. Ismail (Skudai), Z. Abdul Majid, U.D. Hamza and J. Mohammed (Johor Bahru, Malaysia)	29488
Effect of anions on the removal of bisphenol A in wastewater by electro-oxidation process Eun-Young Jo (Seoul), Tae-Kwon Lee (Wonju), Younghee Kim and Chan-Gyu Park (Seoul, Korea).....	29500
Photocatalytic degradation of bisphenol A by HMS/g-C ₃ N ₄ composite Lijun Luo, Wei Tang (Kunming, China), C.J. Barrow, Wenrong Yang (Geelong, Australia), Hongbin Wang and Fengzhi Jiang (Kunming, China).....	29509
Comparative study of acid blue 113 wastewater degradation and mineralization by UV/persulfate and UV/oxone processes Hung-Yee Shu, Shi-Wei Huang and Meng-Ke Tsai (Taichung, Taiwan)	29517
Balancing of nutrient uptake by water spinach (<i>Ipomoea aquatica</i>) and mustard green (<i>Brassica juncea</i>) with nutrient production by African catfish (<i>Clarias gariepinus</i>) in scaling aquaponic recirculation system A. Endut, F. Lananan, S.H. Abdul Hamid, A. Jusoh and W.N. Wan Nik (Kuala Terengganu, Malaysia)	29531
Author Index.....	29541