

Volume 53 Issue 9

Non-point sources of pollution from cultivated lands in river districts and their contribution to water bodies along the North Han River Basin in Korea Sang Leen Yun (Gyeonggi-Do and Seoul), Jae Hwan Ahn (Gyeonggi-Do), Kyung-Sok Min (Daegu), Kyoung Hoon Chu, Chul Yong Um and Kwang Baik Ko (Seoul, Korea)	2301
Analyzing impairment of water bodies considering watershed characteristics in Geum River basin in Korea Jun Dae Park, Jae Hong Park, Jae Kwan Lee and Seung Young Oh (Incheon, Korea)	2312
Assessment of seawater intrusion potential from sea-level rise and groundwater extraction in a coastal aquifer Hai Van Pham (Baton Rouge, LA, USA) and Sang-Il Lee (Seoul, Korea)	2324
Analysis on flood frequency and water quality variations induced by abnormal climate Insang Yu (Chungcheongnam-do), M.L.A. Felix (Gyeonggi-do), Lee-Hyung Kim and Sangman Jeong (Chungcheongnam-do, Korea)	2339
Removal of iron and manganese ions from abandoned neutral or alkaline mine drainage via ozone oxidation and micro-sand filtration: a pilot-scale operation B.W. Sung, K.H. Chu, S.L. Yun, J.Y. Ahn, J.H. Lee, S.S. Yoo (Seoul), J.W. Lee (Jochiwon) and K.B. Ko (Seoul, Korea)	2354
Recycling of sewage sludge using microwave pretreatment and elutriated acid fermentation Koo-Ho Kwon, Xue-Jiao Chen, Kyung-Sok Min (Daegu) and Zuwhan Yun (Seoul, Korea)	2363
Decision method for rehabilitation priority of water distribution system using ELECTRE method Taeho Choi (Seoul), Jungbean Han (Gyeonggi-do) and Jayong Koo (Seoul, Korea)	2369
A study on evaluation of the pipe wall decay constants of residual chlorine and affecting factors in reclaimed water supply system H.D. Lee, J.H. Park, S.W. Kang and M.S. Kong (Goyang, Korea)	2378
Characteristics of the adsorbed heavy metals onto aerobic granules: isotherms and distributions Ki Hong Ahn (Exeter, NH, USA) and Seok Won Hong (Seoul, Korea)	2388
Effects on biological treatment in reverse osmosis concentrate with non-oxidizing biocide (DBNPA) content Jung Su Choi, Sang Rim Kang, Sang Seob Lee and Hyun Jong Joo (Gyeonggi-do, Korea)	2403
Optimization of the mechanical strength of PVA/alginate gel beads and their effects on the ammonia-oxidizing activity Hyokwan Bae (Seoul), Heejeong Yang (Incheon), Minkyu Choi, Yun-Chul Chung, Seockheon Lee and Young Je Yoo (Seoul, Korea)	2412
Reuse of PAC and alum sludge (RPAS) process: pretreatment to reduce membrane fouling Lu Qi, Guo-hua Liu, Xiang Zheng (Beijing) and Gui-bai Li (Harbin, China)	2421
An investigation on manufacturing of alumina microfiltration membranes K. Shafiei, M. Kazemimoghaddam, T. Mohammadi and S. Ghanbari Pakdehi (Tehran, Iran)	2429
The development and applications of solar pond: a review A. Abdulsalam, A. Idris, T.A. Mohamed and A. Ahsan (Serdang, Malaysia)	2437
Pre-treatment of high fat content dairy wastewater using different commercial lipases T.V. Adulkar and V.K. Rathod (Mumbai, India)	2450
Oil removing efficiency in oil-water separation flotation column Hongxiang Xu, Jiongtian Liu, Yongtian Wang, Gan Cheng, Xiaowei Deng and Xiaobing Li (Xuzhou, China)	2456
Ion-exchange properties of ternary CaO-MgO-Al ₂ O ₃ spinels in pH-controlled aqueous radioactive waste solutions B. El-Gammal, M. Abdel Hamid (Cairo, Egypt) and G.M. Ibrahim (Cairo, Egypt and Bisha, Saudi Arabia)	2464
Removal of cyanide and zinc–cyanide complex with malachite green functionalized amberlite XAD-4 resin from electroplating wastewater H. Hashemi-Moghaddam and Z. Noshiri (Damghan, Iran)	2481

Removal of methylene blue from wastewater using fallen leaves as an adsorbent Lingying Kong, Lei Gong and Jiaoqin Wang (Qingdao, China)	2489
Recovery of methylene blue from aqueous solution by liquid–liquid extraction M. Soniya and G. Muthuraman (Chennai, India)	2501
Adsorption of Reactive Blue 222 onto an industrial solid waste included Al(III) hydroxide: pH, ionic strength, isotherms, and kinetics studies E. Güneş and T. Kaygusuz (Çorlu-Tekirdağ, Turkey)	2510
Synthesis of poly GMA/DVB and its application for the removal of Malachite Green from aqueous medium by adsorption process D. Husaain, M. Najam-ul-Haq, A. Saeed, F. Jabeen, M. Athar and M.N. Ashiq (Multan, Pakistan)	2518
<i>kappa</i> -Carrageenan beads as new adsorbent to remove crystal violet dye from water: adsorption kinetics and isotherm G.R. Mahdavinia, F. Bazmizeynabad and B. Seyyedi (Maragheh, Iran)	2529
Kinetics of selenite reduction by zero-valent iron Liping Liang (Harbin), Xiao Jiang (Shanghai), Wenjun Yang (Changzhou), Yuying Huang (Shanghai), Xiaohong Guan (Harbin) and Lina Li (Shanghai, China)	2540
Comparison of chloride effect between A ² O and SBR processes treating domestic wastewater Qihong Lu and Hojae Shim (Macau SAR, China)	2549
Bio-adsorption triadimenol pesticide from aqueous solutions using activated sludge of diary plants R. Al-Shawabkha (Dhahran, Saudi Arabia), Z. Al-Qodah (Madinah, Saudi Arabia and Amman, Jordan) and A. Al-Bsoul (Irbid, Jordan)	2555
Treatment of arsenic (III) contaminated water by dynamically modified iron-coated sand (DMICS) D. Srivastava and R.C. Vaishya (Allahabad, India)	2565
Author Index	2578