



Contents

Volume 246

The impact of 3,3',5,5'-tetrabromobisphenol-A (TBBPA) solution pretreatment by ozonolysis and photocatalysis on the activated sludge respirometric activity J. Koc-Jurczyk, Ł. Jurczyk, M. Balawejder, J. Kisała (Poland)	1
Recent advances in the recovery of precious metals (Au, Ag, Pd) from acidic and WEEE solutions by solvent extraction and polymer inclusion membrane processes – a mini-review D. Bożejewicz, M.A. Kaczorowska, K. Witt (Poland)	12
Polycyclic aromatic hydrocarbons (PAHs) in water and bottom sediments of the non-flow reservoir with recreational use A. Pohl, M. Bodzek (Poland)	25
An investigation on effect of dissimilarity of mass flow rate on hourly, daily and annual efficiencies of double slope type solar still included with N similar PVT compound parabolic concentrators V. Singh, R. Kumar, D.B. Singh (India)	36
Energy and exergy analyses of a novel multi-effect distillation system with thermal vapor compression for seawater desalination R. Menasri, Z. Triki, M.N. Bouaziz (Algeria), B. Hamrouni (Tunisia)	54
Effects of forced input on the performance of direct contact membrane distillation E. Ali, J. Orfi, A. Najib (Saudi Arabia)	68
Optimization of mass flow rate ratio of water and air in humidification–dehumidification desalination systems K.Q. Vo, C.H. Le, A.Q. Hoang (Vietnam)	82
Application of ultrafiltration membrane-embedded activated carbon-filter in Kuwait wastewater treatment in comparison with a conventional method R. Malhas, S. Ghafoori, M. Omar, S. Marquez, A. Al Saeedi, A. Al-Husainan, Y. Al-Ibrahim, A. Al-Meraj, A. Alshatti (Kuwait)	92
Municipal wastewater treatment by a coupled fixed biomass oxic-anoxic system E.R. Guzmán Gorrochotegui, M.C. Carreño de León, M.J. Solache-Ríos, C. Fall, N. Flores-Alamo (Mexico)	102
Optimization of a cyclic activated sludge system for norfloxacin wastewater treatment under low-load conditions Jianlei Gao, Xianglong Guo, Yixin Yan, Yang Liu, Zhihao Yue, Wanqiu Zhu (China)	111
Reliability and efficiency of the removal of pollutants in the mechanical-biological wastewater treatment plant A2/O M. Gizińska-Górna, Z. Wasąg (Poland)	120
Biogas production by an anaerobic co-digestion process from olive mill waste: effect of ultrasonic pre-treatment B. Kheiredine, K. Derbal, K. Charbit, M. Amrani (Algeria)	139
Application of magnetic coagulation for the advanced treatment of ethylene glycol wastewater Jianlei Gao, Wanqiu Zhu, Yixin Yan, Zhihao Yue, Xianglong Guo (China)	146
Electrically conductive membrane of polycarbazole Sn(IV) phosphate cation exchange nanocomposite and their ion-selective and sorption studies M. Zeeshan, R. Ahmad, A.A. Khan (India), A.A.P. Khan, H.M. Marwani (Saudi Arabia), M. Shaban (Egypt), A.M. Asiri (Saudi Arabia), S. Singh (India)	156
Low-cost composite ultrafiltration membrane made from TiO ₂ and nanocomposite clay materials over zeolite support for oily wastewater purification and heavy metals removal W. Aloulou, H. Aloulou, R. Ben Amar (Tunisia)	166

Fabrication and characterization of porous ceramic composite membrane for water and wastewater treatment A.A. Oyekanmi, Abdul Khalil H.P.S., T.T. Dele-Afolabi, M. Rafatullah, Mohammed R.M.S., T. Alfatah, D. Mohammed, C.K. Abdullah (Malaysia)	174
Assessment of spatial and temporal water pollution patterns in Aydos River (Turkey) by using water quality index and multivariate statistical methods E. Mutlu, A.A. Uncumusaoğlu (Turkey)	196
Biosorption activity of chemically modified <i>Trifolium alexandrinum</i> for the detoxification of Cr(III) contaminated water U. Saleem, M. Akram, M. Salman, U. Farooq, A. Dar, S. Tahir (Pakistan)	212
Photocatalytic degradation of benzotriazole (BTA): by-products, bio-toxicity and kinetic study S. Moslemi, H. Nassehinia, A. Rahmani (Iran)	226
Complexation flotation of boron from the salt lake brine using a novel flotation agent prepared by N-methyl-D-glucamine and 1,2-epoxyoctadecane Chun Bai, Kexin Li, Yanping Wang, Haining Liu, Huifang Zhang, Quan Li, Jun Li, Xiushen Ye, Zhijian Wu (China)	237
Design of magnetic flux and its effect of pH groundwater A.M. AbdElHady, E.F. Abdelaty, S.F. Abouzahw (Egypt)	246
Persuade of solar driven photo-Fenton process for the effective sludge reduction through chemical deflocculation V. Amudha, J. Judes (India)	258
Hydrochemical and geophysical appraisal for effects of Gadoon Amazai industrial estate on water resources, Swabi District, Pakistan S. Daud, MonaLisa, U. Bin Nisar, H. Sipra (Pakistan)	265
Investigation of the cationic resin Amberlite®IRC-50 as a potential adsorbent to remove the anionic dye methyl orange J. Bensalah, A. Habsaoui, A. Lebkiri, O. El Khattabi, E.H. Rifi (Morocco)	280
Removal of Basic Blue 41 by waste product from the phosphate industry: batch design and regeneration M. Bembli (Tunisia), F. Kooli (Saudi Arabia), R. Khiari, K. Boughzala (Tunisia)	291
Adsorption properties of polyacrylamide/ <i>Nicandra physaloides</i> (L.) Gaertn gel to Congo red Wenshuo Xu, Yanhui Li, Meixiu Li, Huimin Wang, Yong Sun, Mingfei Cui, Liubo Li (China)	304
Biosorbents based on residual biomass of <i>Lactobacillus</i> sp. bacteria consortium immobilized in sodium alginate for Orange 16 dye retention from aqueous solutions D. Suteu, C. Zaharia, A.C. Blaga, A.C. Peptu (Romania)	315
Author Index	325