

Volume 57 Issue 34

Preliminary investigations on an air-cooled based low temperature flash evaporation desalination system for small-scale applications G. Jims John Wesley, C.P. Jawahar and P. Koshy Mathews (Coimbatore, India)	15735
Direct fertigation with brackish water by a forward osmosis system converting domestic reverse osmosis module into forward osmosis membrane element H.D. Raval (Bhavnagar) and P. Koradiya (Rajkot, India)	15740
Rejection of nutrients contained in an anaerobic digestion effluent using a forward osmosis membrane S. Onoda, Y. Masumori, T. Miyoshi, M. Yasukawa, T. Takahashi and H. Matsuyama (Kobe, Japan).....	15748
Control of mixing for optimal formation of dynamic membrane in MBRs N. Fakhimi and M.R. Mehrnia (Tehran, Iran).....	15759
Synthesis and characterization of polysulphone/clay membrane: effect of natural clay differences F.V. Adams (Johannesburg, South Africa and Yola, Nigeria) and A.F. Mulaba-Bafubiandi (Johannesburg, South Africa)	15772
Wastewater treatment performances and hydrodynamic of a real-scale airlift HRAP N. Drira, R. Ben Moussa, H. Mhiri (Monastir, Tunisia), P. Bournot (Marseille, France) and H. Dhaouadi (Monastir, Tunisia).....	15782
Performance evaluation of stone-media pro-type pilot-scale trickling biofilter system for municipal wastewater treatment I. Naz, W. Ullah, S. Sehar, A. Rehman, Z.U. Khan (Islamabad, Pakistan and Hangzhou, China), N. Ali and S. Ahmed (Islamabad, Pakistan)	15792
Necessity of meat-processing industry's wastewater treatment—a one-year trial in Serbia M. Milanović, I. Mihajlović, S. Pap, M. Brborić, M. Đogo, N. Grujić Letić, Z. Nježić and N. Milić (Novi Sad, Serbia)	15806
A critical review of the applicability of Avrami fractional kinetic equation in adsorption-based water treatment studies N.A. Oladoja (Akungba Akoko, Nigeria).....	15813
Regeneration of exhausted granular activated carbon by low frequency ultrasound in batch reactor S. Guilane and O. Hamdaoui (Annaba, Algeria)	15826
The influences of shear stress on extracellular polymeric substances of activated sludge Qian Feng, Yubing Xiao, Xiao Wang, Jun Li, Yangfang Wu, Zhaoxia Xue, Jiashun Cao and J.O. Oleyiblo (Nanjing Jiangsu, China)	15835
TOC removal from Methylene Blue aqueous solutions by adsorption and oxidation in the presence of coal fly ash F. Ferrero (Torino, Italy)	15843
Adsorption of methylene blue on chemically modified pine nut shells in single and binary systems: isotherms, kinetics, and thermodynamic studies M. Naushad, M. Ali Khan, Z.A. Allothman, M.R. Khan (Riyadh, Saudi Arabia) and M. Kumar (Dublin, Ireland)	15848
Biosorption of methyl violet from aqueous solution using Algerian biomass A. Hamitouche, S. Benammar, M. Haffas, A. Boudjemaa and K. Bachari (Algiers, Algeria).....	15862
Avocado seed powder: characterization and its application for crystal violet dye removal from aqueous solutions A. Bazzo (Porto Alegre, Brazil), M.A. Adebayo (Abeokuta, Nigeria), S.L.P. Dias, E.C. Lima, J.C.P. Vagheti, E.R. de Oliveira, A.J.B. Leite (Porto Alegre) and F.A. Pavan (Bagé, Brazil)	15873
Fenton process-driven decolorization of Allura Red AC in wastewater using apolaccase-modified or native nanomagnetite immobilized on silica fume A. Alayli Gungor, H. Nadaroglu (Erzurum), E. Kalkan (Oltu-Erzurum) and N. Celebi (Erzurum, Turkey)	15889

Removal of patent blue V dye using air bubble-induced oxidation based on small glass balls: intensification studies D.D. Mahale, N.N. Patil, D.S. Zodge, P.D. Gaikwad, B.S. Banerjee, K.N. Bawankar, A.V. Mohod (Pune) and P.R. Gogate (Mumbai, India)	15900
Removal of fluoride from water by Al(III)-loaded and Al(OH) ₃ -coated chelating resin G. Demirkalp, S. Alamut, Ö. Arar, Ü. Yüksel and M. Yüksel (Izmir, Turkey).....	15910
Removal of phosphate from industrial wastewater using uncalcined MgAl-NO ₃ layered double hydroxide: batch study and modeling M. Khitous, Z. Salem and D. Halliche (Bab Ezzouar, Algeria)	15920
Biodegradation of 2,4-dichlorophenol by <i>Bacillus endophyticus</i> strain: optimization of experimental parameters using response surface methodology and kinetic study B.P. Patel and A. Kumar (Rourkela, India)	15932
Trichlorophenol removal from aqueous solutions by modified halloysite: kinetic and equilibrium studies S. Sahnoun, M. Boutahala, H. Zaghouane-Boudiaf and L. Zerroual (Sétif, Algeria)	15941
Rapid and efficient removal of Ni(II) in water using constant-current electrolysis S. Srithanrat, K. Osathaphan (Bangkok, Thailand), V.K. Sharma (College Station, TX, USA) and C. Kraiya (Bangkok, Thailand).....	15952
Rapid achievement of nitrification in CSTR and SBR treating reject water at high ammonia levels L. Pacek, P. Svehla, H. Hrnčirova and J. Radechovsky (Prague, Czech Republic)	15958
Effectiveness of re-chloramination to control nitrification in chloraminated bulk waters K.C. Bal Krishna, G.S. Bhullar (Perth), A. Sathasivan (Perth and Perth) and R. Henderson (Perth, Australia)	15970
Alteration of moving bed sequencing batch reactor operational strategies for the enhancement of nitrogen removal from stabilized landfill leachate Kui-Chew Tan, Chye-Eng Seng, Poh-Eng Lim, Chuan-Wei Oo (Penang), Jun-Wei Lim (Bandar Seri Iskandar) and Sook-Ling Kew (Penang, Malaysia)	15979
Degradation and mineralization of aqueous nitrobenzene using ETS-4 photocatalysis P.K. Surolia (Bhavnagar, India and Dublin, Ireland) and R.V. Jasra (Bhavnagar, Vadodara, India)	15989
Removal of ammonia by high-frequency ultrasound wave (1.7 MHz) combined with TiO ₂ photocatalyst under UV radiation M. Rahimi, N. Moradi, M. Faryadi and S. Safari (Kermanshah, Iran)	15999
Pre-treating amoxicillin contained wastewater with an anaerobic expanded granular sludge bed (EGSB) Ling-Wei Meng, Xiang-Kun Li, Ke Wang, Kai-Li Ma and Jie Zhang (Harbin, China)	16008
Microwave-assisted one-pot method for preparation of ZnO/AgI nanocomposites with highly enhanced photocatalytic activity under visible-light irradiation S. Shaker-Agjekandy and A. Habibi-Yangjeh (Ardabil, Iran)	16015
Determination of conjugated estrogens in human urine using carrier-mediated hollow-fiber liquid phase microextraction and LC-MS/MS Hyun Young Kim (Jeonbuk), Su Hyun Yoon (Incheon), Tae-Yong Jeong (Gwangju), Seunggho Yu (Incheon) and Sang Don Kim (Gwangju, Korea).....	16024
Application of activated carbon produced from phosphoric acid-based chemical activation of oil fly ash for the removal of some charged aqueous phase dyes: role of surface charge, adsorption kinetics, and modeling B.A. Labaran and M.S. Vohra (Dhahran, Saudi Arabia)	16034
Preparation of carbon-based adsorbents from the pyrolysis of sewage sludge with CO ₂ . Investigation of the acid washing procedure I. Sierra, U. Iriarte-Velasco, E.A. Cepeda (Vitoria-Gasteiz), M. Gamero and A.T. Aguayo (Leioa, Spain)	16053
Integrated air stripping and non-thermal plasma system for the treatment of volatile organic compounds from wastewater: statistical optimization M.E. Abdullahi (Abuja, Nigeria), M.A. Abu Hassan, Z. Zainon Noor and R.K. Raja Ibrahim (Johor Bahru, Malaysia).....	16066
Metal chloride salts in the preparation of activated carbon and their hazardous outlook Lin Zhi Lee and M.A. Ahmad Zaini (Johor Bahru, Malaysia)	16078
Effects of cationization hybridized biopolymer from <i>Bacillus subtilis</i> on flocculating properties S.-K. Khiew, T.-T. Teng, Y.-S. Wong (Minden and Arau), S.-A. Ong (Arau), N. Ismail and A.F.M. Alkarkhi (Minden, Malaysia)	16086

Optimization of process variables by dried <i>Bacillus cereus</i> for biosorption of nickel(II) using response surface method Jing Zhang, Tao Yang, Hongyu Wang and Kai Yang (Wuhan, China)	16096
Synthesis of humic cationic polymer and the treatment of wastewater of oilfield Rongming Zhang, Yulan Hao, Zitong Wang, Baochen Cui, Xueliang Gao and Yuna Luan (Daqing, China)	16104
Ag-TiO ₂ nanoparticles for photocatalytic degradation of lomefloxacin R.M. Kulkarni, R.S. Malladi, M.S. Hanagadakar (Belagavi), M.R. Doddamani and U.K. Bhat (Surathkal, India)	16111
Mineralization of unsymmetrical dimethylhydrazine (UDMH) via persulfate activated by zero valent iron nano particles: modeling, optimization and cost estimation A.R. Zarei, H. Rezaeivahidian (Tehran) and A.R. Soleymani (Malayer, Iran)	16119
Chlorination of <i>Microcystis aeruginosa</i> : cell lyses and incomplete degradation of bioorganic substance Hongbao Dai, Jiying Xu (Anhui), Zheng Chen, Chenghu Yang, Weichen Hong and Hualin Man (Xiamen, China)	16129
Utilization of <i>Sapindus saponaria</i> (soap nut) bark powder for the removal of Cu(II) ions from aqueous environment Ch. Suresh, Y. Harinath, B. Sreenu, K. Seshaiiah (Tirupati) and A.V.R. Reddy (Mumbai, India)	16138
Synthesis and investigation of hydrogel nanoparticles based on natural polymer for removal of lead and copper(II) ions R.K. Farag, S.M. El-Saeed and M.E. Abdel-Raouf (Cairo, Egypt)	16150
Interface behavior of PbO ₂ on pure lead and stainless steel as anode for dye degradation I. Elaissaoui, H. Akrouit and L. Bousselmi (Soliman, Tunisia)	16161
Removal of hexavalent chromium using polyacrylonitrile/titanium dioxide nanofiber membrane Ş. Parlayıcı, A. Yar, A. Avcı and E. Pehlivan (Konya, Turkey)	16177
Uranium removal from aqueous solutions by adsorption on Aleppo pine sawdust, modified by NaOH and neutron irradiation S. Menacer (Draria), A. Lounis (Bab Ezzouar), B. Guedioura (Sébala-Draria) and N. Bayou (Draria, Algeria)	16184
Quaternized zinc(II) phthalocyanine-sensitized TiO ₂ : surfactant-modified sol–gel synthesis, characterization and photocatalytic applications İ. Altın, M. Sökmen and Z. Biyıklıoğlu (Trabzon, Turkey)	16196
Author Index	16208