

**Volume 51/37–39**

Experimental study of high-performance hybrid NF-MSF desalination pilot test unit driven by renewable energy A.N.A. Mabrouk (Suez) and H.E.-B.S Fath (Alexandria, Egypt) .....	6895
A new visual library for modeling and simulation of renewable energy desalination systems (REDS) M.A. Sharaf Eldean and A.M. Soliman (Suez, Egypt) .....	6905
Identification of nanofiltration fouling layer constituents F. Saravia, A. Klüpfel, A.Z. Richard and F.H. Frimmel (Karlsruhe, Germany) .....	6921
Effects of concentrations and types of natural organic matters on rejection of compounds of emerging concern by nanofiltration T.-J. Liu, E.-E. Chang and P.-C. Chiang (Taipei, Taiwan) .....	6929
Biofouling mitigation using <i>Piper betle</i> extract in ultrafiltration MBR M.F. Siddiqui, L. Singh, A.W. Zularisam and M. Sakinah (Kuantan, Malaysia) .....	6940
Chemical oxidation and membrane bioreactor for the treatment of household heating wastewater A.A. Zorpas (Nicosia, Cyprus) .....	6952
Optimization-based periodic forcing of RO desalination process for improved performance M. Al-Haj Ali, A. Ajbar, E. Ali and K. Alhumaizi (Riyadh, Saudi Arabia) .....	6961
An investigation of polymer dope and heating effects on hollow fiber membranes C. Durbin, R. Hausman and I.C. Escobar (Toledo, OH, USA) .....	6970
Process control system of granular media filter considering daily flow-rate fluctuation S.-S. Kim (Daejeon), N.-S. Park (Jinju), W.-C. Jeong (Changwon) and C.-K. Wang (Daejeon, Korea) .....	6978
Treatment of petroleum refinery wastewater using crossflow and immersed membrane processes M.H. Al-Malack (Dhahran, Saudi Arabia) .....	6985
Effect of pretreatment on membrane fouling and VMD performance in the treatment of RO concentrated wastewater Y. Zhiqing, L. Xiaolong, W. Chunrui and W. Xuan (Tianjin, China) .....	6994
Enhancement of biomass productivity and nutrients removal from pretreated piggery wastewater by mixotrophic cultivation of <i>Desmodesmus</i> sp. CHX1 H. Cheng, G. Tian and J. Liu (Hangzhou, China) .....	7004
A review: Inhibition of Ag NPs on wastewater treatment W. Ma, D. Zhong, H. Han and P. Wang (Harbin, China) .....	7012
Bioremediation of wastewaters containing various phenolic compounds by phenol-acclimated activated sludge J.-W. Lim, H.-M. Gan and C.-E. Seng (Penang, Malaysia) .....	7018
Treatment of cotton printing and dyeing wastewater by supercritical water oxidation Q. Wang, Y. Lv, R. Zhang and J. Bi (Taiyuan, China) .....	7025
Response surface methodology for modeling and optimizing the treatment of synthetic starchy wastewater using hydrophilic PES membrane A. Hedayati Moghaddam (Mashhad), J. Shayegan (Tehran), J. Sargolzaei (Mashhad) and T. Bahadori (Tehran, Iran) .....	7036
Optimization of chemical precipitation to improve the primary treatment of wastewater I.G.A.-A. Rashed (Mansoura), H.A. Afify, A.E.-M. Ahmed and M.A.E.-S. Ayoub (Tanta, Egypt) .....	7048
Novel polyaniline/poly (vinyl alcohol)/clinoptilolite nanocomposite: dye removal, kinetic, and isotherm studies A. Rashidzadeh and A. Olad (Tabriz, Iran) .....	7057
Optimization of methyl orange bioremoval by <i>Prunus amygdalus</i> L. (almond) shell waste: Taguchi methodology approach and biosorption system design F. Deniz (Gaziantep, Turkey) .....	7067
Utilization of dried activated sludge for the removal of basic dye from aqueous solution H.-C. Chu (Taipei), L.-H. Lin, H.-J. Liu (Chung-Li) and K.-M. Chen (Taipei, Taiwan) .....	7074
Adsorption of methylene blue by residue biochar from coprolysis of dewatered sewage sludge and pine sawdust G. Cheng (Shenzhen), L. Sun, L. Jiao (Wuhan), L.-x. Peng, Z.-h. Lei, Y.-x. Wang and J. Lin (Shenzhen, China) .....	7081
Dye Congo Red adsorptive decolorization by adsorbents obtained from <i>Trametes pubescens</i> pellets J. Si and B. Cui (Beijing, China) .....	7088
Photocatalytic degradation of methylene blue by visible-light-driven yttrium-doped mesoporous titania coated magnetite photocatalyst S. Yao, S. Song, Z. Shi and S. Wang (Shenyang, China) .....	7101
Removal of basic dyes from aqueous solution using sugarcane bagasse: optimization by Plackett–Burman and Response Surface Methodology E.-C. Khoo (Kuala Lumpur, Malaysia), S.-T. Ong (Kampar, Malaysia), Y.-T. Hung (Cleveland, OH, USA) and S.-T. Ha (Kampar, Malaysia) .....	7109
Characterization and Congo Red uptake capacity of a new lignocellulose/organic montmorillonite composite M. Wang, L. Wang (Huhhot) and A. Wang (Lanzhou, China) .....	7120

Phosphorus removal from domestic sewage by adsorption combined photocatalytic reduction with red mud Z. Yi, X. Shibin, K. Dandan, X. Dong, K. Lingwei, H. Feng and W. Zhenbin (Wuhan, China) .....	7130
Application of Ag-doped TiO <sub>2</sub> nanoparticle prepared by photodeposition method for nitrate photocatalytic removal from aqueous solutions S. Parastar, S. Nasserri, S.H. Borji (Tehran), M. Fazlzadeh (Ardabil), A.H. Mahvi, A.H. Javadi and M. Gholami (Tehran, Iran) .....	7137
Removal of nitrate and phosphate anions from aqueous solutions using strong base anion exchange resin A. Sowmya and S. Meenakshi (Gandhigram, India) .....	7145
Continuous-flow biological denitrification with zeolite as support for bacterial growth L. Foglar and D. Gašparac (Zagreb, Croatia) .....	7157
Adsorption of Pb <sup>2+</sup> , Cu <sup>2+</sup> and Ni <sup>2+</sup> from aqueous solutions by novel garlic peel adsorbent S. Liang, X. Guo and Q. Tian (Changsha, China).....	7166
Removal of nickel (II) from aqueous solutions with polypyrrole modified clinoptilolite: kinetic and isotherm studies A. Olad, S. Ahmadi and A. Rashidzadeh (Tabriz, Iran) .....	7172
Heavy metal removal from water by red mud and coal fly ash: an integrated adsorption–solidification/stabilization process J. Hizal (Yalova), E. Tutem, K. Guclu, M. Hugul, S. Ayhan, R. Apak and F. Kilinckale (Istanbul, Turkey) .....	7181
Enhancement of heterogeneous Cr(VI) reduction using clay minerals in the presence of organic carboxylic acids under UV irradiation Y. Liu (Wuhan), L. Wang (Beijing), F. Wu and N. Deng (Wuhan, China) .....	7194
Transport of Cr(VI) using an advanced membrane technology and (PJMTH <sup>+</sup> NO <sub>3</sub> <sup>-</sup> ) ionic liquid derived from amine Primene JMT as green chemicals F.J. Alguacil, I. García-Díaz and F. Lopez (Madrid, Spain).....	7201
Novel inorganic–organic hybrid polymers to remove heavy metals from aqueous solution S.K. Bozbas, U. Ay and A. Kayan (Kocaeli, Turkey) .....	7208
Biodegradation of o-cresol by polyvinyl alcohol–alginate immobilized mixed culture R.-H. Toh, C.-E. Seng, P.-E. Lim, R. Adnan and A.N.A. Sujari (Penang, Malaysia) .....	7216
Enhanced removal of Pb <sup>2+</sup> from water by adsorption onto phosphoric acid-modified PS-EDTA resin: mechanism and kinetic study Y. Zhang, X. Li, W. Zheng (Lanzhou), Z. Ye (Beijing) and Y. Li (Lanzhou).....	7223
Visible light photocatalytic reduction of Cr(VI) on Ag <sub>3</sub> PO <sub>4</sub> nanoparticles H. Huang, Y. Feng, J. Zhou, G. Li and K. Dai (Nanjing, China) .....	7236
Kinetics, equilibrium and thermodynamics of ciprofloxacin hydrochloride removal by adsorption on coal fly ash and activated alumina M. Maheshwari, R.K. Vyas and M. Sharma (Jaipur, India) .....	7241
Treatment of aqueous solution of antibiotics amoxicillin and cloxacillin by modified photo-Fenton process M. Chaudhuri, M.Z.B.A. Wahap and A.C. Affam (Perak, Malaysia) .....	7255
Degradation of the antibiotic chloramphenicol using photolysis and advanced oxidation process with UVC and solar radiation O.R.S. da Rocha, R.B. Pinheiro, M.M.M.B. Duarte (Recife, Brazil), R.F. Dantas (Barcelona, Spain), A.P. Ferreira, M. Benachour and V.L. da Silva (Recife, Brazil) .....	7269
Utilization of activated carbon prepared from agricultural waste for the removal of organophosphorous pesticide from aqueous media A.A. El-Kady, H.H.A. Ghafar, M.B.M. Ibrahim and M.A. Abdel-Wahhab (Dokki, Egypt).....	7276
Study of the conditions of activated carbon preparation from an agriculture by-product for 4BA elimination in aqueous solution using full factorial design H. Tizi, T. Berrama, F. Kaouah and Z. Bendjama (Algiers, Algeria).....	7286
Copper, iron, and lead levels in fertilizer and water samples: separation and preconcentration on multiwalled carbon nanotubes M. Soylak and D.H. Sahinbas (Kayseri, Turkey).....	7296
Arsenic removal from drinking water with conventional and modified adsorbents: the factorial design of experiments M.H. Khan, M. Tariq, F. Bashir, T. Shafiq, R.A. Khan (Lahore, Pakistan) and J. Jung (Gyeongsan-si, Korea) .....	7304
Bioremoval and recovery of Cu(II) and Pb(II) from aqueous solution by a novel biosorbent watermelon ( <i>Citrullus lanatus</i> ) seed hulls: Kinetic study, equilibrium isotherm, SEM and FTIR analysis G. Akkaya and F. Güzel (Diyarbakır, Turkey) .....	7311
Treatment of landfill leachate by Fenton process: parametric and kinetic studies M.I. Badawy, F. El-Gohary, T.A. Gad-Allah and M.E.M. Ali (Cairo, Egypt) .....	7323
Eutrophication analyses and principle component regression for two subtropical storage reservoirs in Macau W. Zhang, I.C. Lou, Y. Kong, W.K. Ung and K.M. Mok (Taipa, Macau).....	7331
Energy consumption analysis of a supercritical water oxidation pilot plant with a transpiring wall reactor based on energy recovery F. Zhang, S. Chen, C. Xu, G. Chen and C. Ma (Jinan, China) .....	7341
Physicochemical parameters of groundwater (Foggara) and sand dune (Timimoun) Algeria A. Maazouzi, A. Kettab, A. Badri, B. Zahraoui, R. Khalfaoui (Béchar, Algeria).....	7353
Author Index.....	7359