



The role of desalination in removal of the chemical, physical and biological parameters of drinking water (a case study of Birjand City, Iran) M. Khodadadi (Birjand), A.H. Mahvi (Tehran), M.T. Ghaneian, M.H. Ehrampoush (Yazd), H. Dorri (Birjand) and L. Rafati (Yazd, Iran)	25331
Removal of dissolved organic matter from algae-polluted surface water by coagulation Xiaomin Tang, Huaili Zheng, Chun Zhao, Jun Zhai, Bingzhi Liu, Wei Chen, Zhengan Zhang (Chongqing) and Fang Li (Sichuan, China).....	25337
Evaluation of rainwater quality using factor analysis: case study of Khorramabad in western Iran E. Hoseinzadeh (Hamedan, Iran), Chiang Wei (Nantou, Taiwan), M. Safari (Tehran) and H. Godini (Karaj, Iran)	25345
Pilot scale evaluation of feasibility of reuse of wine industry wastewater using reverse osmosis system: modeling and optimization K. Thirugnanasambandham, V. Sivakumar (Chennai), K. Loganathan (Tiruchirappalli), R. Jayakumar (Coimbatore, India) and K. Shine (Riyadh, Saudi Arabia).....	25358
Advanced treatment of pharmaceutical wastewater with combined micro-electrolysis, Fenton oxidation, and coagulation sedimentation method Zhe Qin, Shan Liu, Shu-xuan Liang (Baoding), Quanying Kang, Jingfei Wang (Shijiazhuang) and Chunxia Zhao (Baoding, China)	25369
Preparation of an activated carbon involving magnetic properties B. Baaziz (Algiers and Tizi Ouzou), M. Drouiche, N. Drouiche, S. Nour (Algiers) and H. Lounici (Algiers and Bouira, Algeria).....	25379
Mass transfer and transient response time of a split-feed nanofiltration pilot unit S. Jeffery-Black and S.J. Duranceau (Orlando, FL, USA).....	25388
Effects of hydraulic retention time and influent alkalinity on the performance of bio-electrochemical system assisted anaerobic baffled reactor Zhang JingRui, Zhu Gefu, Pan Xiaofang (Xiamen, China), Jha Ajay Kumar (Lalitpur, Nepal), Liu Lin, Huang Xu and Liu Chaoxiang (Xiamen, China).....	25399
Preparation of spherical mesoporous aminopropyl-functionalized MCM-41 and its application in polyamide thin film nanocomposite reverse osmosis membranes Guiru Zhu, Mengru Bao, Zhaofeng Liu and Congjie Gao (Qingdao, China)	25411
Modified PID control with H_{∞} loop shaping synthesis for RO desalination plants Bui Duc Hong Phuc, Sam-Sang You, Tae-Woo Lim and Hwan-Seong Kim (Busan, Korea).....	25421
Activated carbon selection for the adsorption of marine DOC and analysis of DOC fractionation M. Monnot, S. Laborie and C. Cabassud (Toulouse, France).....	25435
A new approach to evaluate membrane performance: COD and EC rejection rates T. Coskun (Istanbul, Turkey) and I. Basturk (Gebze, Kocaeli)	25450
Statistical optimization of process parameters for tannery wastewater treatment by electrocoagulation and electro-Fenton techniques G. Varank, S. Yazici Guvenc, G. Gurbuz and G.O. Engin (Istanbul, Turkey)	25460
Application of a vetiver system for unconventional water treatment A.R. Keshtkar (Tehran), M.R. Ahmadi (Sirjan), H.R. Naseri (Tehran), H. Atashi, H. Hamidifar (Shiraz), S.M. Razavi (Arak), A. Yazdanpanah (Kerman), M. Karimpour Reihan and N. Moazami (Tehran, Iran).....	25474
Investigation of factors influencing the hydrolysis of brewery waste activated sludge Feng Deng, Peng Li, Xiaojiang Guan and Hongbo Zhu (Nanjing, China).....	25484
Regeneration of nitrophenol loaded granular activated carbon and its effect on the surface properties of adsorbent Xiaoliang Ma, Hong Peng and Xu Zhang (Wuhan, China)	25494

Evaluation for the contribution of different surface runoff to the pollution of wet weather flows in storm sewers Jing-chao Han (Shanghai), Xue-long Gao (Fuzhou), Xuan Cai, Hong-wu Wang (Shanghai), Yi Chen (Fuzhou), Liu-si-xing He and Yan Liu (Shanghai, China)	25503
Modified centrifugal technique for determining polymer demand and achievable dry solids content in the dewatering of anaerobically digested sludge V.H.P. To, T.V. Nguyen, S. Vigneswaran (Ultimo), L.D. Nghiem (Wollongong, Australia), S. Murthy (Washington, DC, USA), H. Bustamante (Parramatta, Australia) and M. Higgins (Lewisburg, PA, USA).....	25509
A combined process of chemical precipitation and flocculation for treating phosphating wastewater Zhengan Zhang (Chongqing and Yibin), Huaili Zheng (Chongqing), Yongjun Sun (Nanjing), Chuanliang Zhao, Yuhao Zhou, Xiaoming Tang and Chun Zhao (Chongqing, China)	25520
Synthesis, characterization and application of wheat bran/zinc aluminium and tea leaves waste/zinc aluminium biocomposites: kinetics and thermodynamics modeling Y. Safa (Lahore), H.N. Bhatti (Faisalabad), M. Sultan (Lahore) and S. Sadaf (Faisalabad, Pakistan)	25532
Phosphate removal from water by polysulfone ultrafiltration membrane using PVP as a hydrophilic modifier P. Moradihamedani and A.H.B. Abdullah (Selangor, Malaysia).....	25542
Application of raw and biochared Moringa oleifera seed powder for the removal of nitrobenzene from aqueous solutions N.T. Tavengwa, E. Cukrowska and L. Chimuka (Johannesburg, South Africa)	25551
The performance of electrosynthesised ferrate (VI) ion, electrocoagulation and peroxi-electrocoagulation processes for degradation of cholesterol-lowering drug atorvastatin S. Barışçı and O. Turkyay (Gebze, Turkey)	25561
Release characteristics of sediment P in all fractions of Donghu Lake, Wuhan, China Yi Zhang, Feng He, Lingwei Kong, Biyun Liu, Qiaohong Zhou and Zhenbin Wu (Wuhan, China).....	25572
The performance of Zn _{1-x} Ce _x O nanoparticles thin films in sunlight exposure: synthesis, characterization and photocatalytic activity N. Salah (Jeddah), A. Hameed (Jeddah, Saudi Arabia and Islamabad, Pakistan), M. Aslam, S.S. Babkair and F.S. Bahabri (Jeddah, Saudi Arabia)	25581
Biotemplated <i>Luffa cylindrica</i> for the oil spill clean-up from seawater H. Koseoglu (Isparta, Turkey).....	25591
Phosphate dynamics in the drinking water catchment area of the Dobromierz Reservoir J. Dąbrowska, K. Lejcuś, M. Kuśnierz, A. Czamara, J. Kamińska and I. Lejcuś (Wrocław, Poland)	25600
The use of alum as coagulant for removing cyanobacterial cells in drinking water A.B. Şengül, N. Tüfekçi and S. Aktan (Istanbul, Turkey)	25610
Sulphate reduction and zinc precipitation from wastewater by sulphate-reducing bacteria in an anaerobic moving-liquid/static-bed bioreactor H. Teiri (Isfahan), M. Rezaei (Ardabil), S. Nazmara (Tehran) and Y. Hajizadeh (Isfahan, Iran).....	25617
High removal of haloacetic acids from treated drinking water using bio-activated carbon method Jie-Chung Lou, Hung-Yi Chan, Jia-Yun Han and Chih-Yuan Yang (Kaohsiung, Taiwan)	25627
Removal of antimonate and antimonite from water by schwertmannite granules Yonghuan Li (Beijing, China), D. Mohan (New Delhi, India), C.U. Pittman, Jr. (Mississippi, MS, USA), Yong Sik Ok (Chuncheon, Korea) and Xiaomin Dou (Beijing, China)	25639
Competitive adsorption of 2,4-dichlorophenoxyacetic acid herbicide and humic acid onto activated carbon for agricultural water management A.E. Kurtoğlu and G. Atun (Istanbul, Turkey)	25653
Synthesis and characterization of Ag/AgX-CNT nanocomposites for the degradation of cyanide using visible light E.S. Baeissa (Jeddah, Saudi Arabia) and R.M. Mohamed (Jeddah, Saudi Arabia and Cairo, Egypt)	25667
Determination of anionic surfactants in wastewater treatment plant in Algiers City A. Ferradj and M. Idouhar (Bab Ezzouar, Algeria)	25677
Effects of nitrite anions and ammonium cations on the photolysis of bisphenol S in nitrate solution Guiping Cao, Jintao Zhang and Baoliang Liu (Changzhou, China)	25686
Kinetic and thermodynamic studies of the ammonium ions adsorption onto natural Algerian bentonite Y. Angar, N.-E. Djelali and S. Kebbouche-Gana (Boumerdes, Algeria)	25696

Highly facile supported liquid membrane transport and removal of silver ion using dibenzylidiazia-18-crown-6 dissolved in a supramolecular solvent as selective ion carrier M. Shamsipur (Kermanshah), F. Falaki and F. Shemirani (Tehran, Iran).....	25705
Heavy metals removal using iminodiacetate chelating resin by batch and column techniques D.A. Fadel (Cairo, Egypt), S.M. El-Bahy (Taif, Saudi Arabia) and Y.A. Abdelaziz (Cairo, Egypt)	25718
Development of novel blend membranes based on carbohydrate polymers for the removal of toxic metal ions through sorption T.J. Sudha Vani (Kadapa and Kurnool), N. Sivagangi Reddy (Kadapa, India), K.S.V. Krishna Rao (Kadapa, India and Detroit, MI, USA) and S.R. Popuri (Cave Hill Campus, Barbados).....	25729
Comparison of chelating ligands on manganese (II) removal from aqueous solution G. Coşkun, İ. Şimşek, Ö. Arar, Ü. Yüksel and M. Yüksel (Izmir, Turkey).....	25739
Magnesium recovery from brines using exopolymeric substances of sulfate-reducing bacteria A.-M. Wan (Abu Dhabi, UAE), B. Mansoor (Doha, Qatar) and F. Ahmad (Abu Dhabi, UAE)	25747
Complex doping of d-block elements cobalt, nickel and cadmium in magnesio-silicate composite and its use in the treatment of aqueous waste M.M. Abou-Mesalam, M.R. Abass, M.A. Abdel-Wahab, E.S. Zakaria, A.M. Hassan and H.F. Khalil (Cairo, Egypt)	25757
Aspartic acid-modified magnetic nanoparticles as an ideal sorbent for solid phase extraction of Pb in water samples prior to ICP-OES determination F. Falaki and S. Berijani (Tehran, Iran).....	25765
Interaction of Pb(II) and Cd(II) with <i>Arthrobacter protophormiae</i> biomass: mechanism and characterization Yu-shan Wan, Yan-qiu Chen and Li-Hang (Changzhou, China).....	25773
Kinetic and equilibrium studies of decolorization of effluent of handmade paper industry by low-cost fly ash S. Agarwal (Jaipur), S. Yadav (Banasthali), A. Sharma, K. Singh and A.B. Gupta (Jaipur, India).....	25783
Methylene blue dye degradation using C-100 polymeric material modified with ZnO nanoparticles M.M. El-Moselhy (Cairo, Egypt)	25800
Application of seaweeds for the removal of cationic dye from aqueous solution J. Jegan, J. Vijayaraghavan, T. Bhagavathi Pushpa and S.J. Sardhar Basha (Ramanathapuram, India).....	25812
Solid-phase extraction of some food dyes on sea sponge column and determination by UV–vis spectrophotometer A. Karatepe, C. Akalin (Nevsehir) and M. Soylak (Kayseri, Turkey)	25822
Preparation and characterization of magnetic Fe ₃ O ₄ @sulfonated β-cyclodextrin intercalated layered double hydroxides for methylene blue removal Wenjihao Hu, Xia Wu, Feipeng Jiao (Changsha), Weijie Yang (Zhoukou) and Yangmeihui Zhou (Changsha, China)	25830
Continuous biosorption of Malachite Green by <i>Ananus comosus</i> (pineapple) leaf powder in a fixed bed reactor: experimental, breakthrough time and mathematical modeling Papita Das, Pinaki Das and S. Datta (Kolkata, India)	25842
Photocatalytic degradation of p-nitrophenol and methylene blue using Zn-TCPP/Ag doped mesoporous TiO ₂ under UV and visible light irradiation M. Rabbani, H. Bathae, R. Rahimi and A. Maleki (Tehran, Iran)	25848
Author Index.....	25857