

**Contents**

**Volume 57 Issue 11**

Biofilm formation on RO membranes: the impact of seawater pretreatment E. Ben-Dov (Beer-Sheva and Achva, Israel), E. Ben-David, R. Messalem, M. Herzberg (Beer Sheva, Israel) and A. Kushmaro (Beer-Sheva, Israel and Singapore) .....	4741
Pervaporative desalination of seawater by using composite and blended poly(vinyl alcohol) membranes F.U. Nigiz and N.D. Hilmioğlu (Kocaeli, Turkey) .....	4749
Numerical investigation of the membrane fouling during microfiltration of semiconductor wastewater Jianxin Liu, Zhijun Liu, Xiaofei Xu, Wei Wei, Xiaojuan Wang and Fengxi Liu (Dalian, China) .....	4755
Investigating the feasibility and the optimal location of pulsed ultrasound in surface water treatment schemes R.A. Al-Juboori, T. Yusaf, V. Aravinthan, P.A. Pittaway and L. Bowtell (Toowoomba, Australia) .....	4769
Effect of hydrophilic modification with nano-titania and operation modes on the oil-water separation performance of microfiltration membrane Qibing Chang, Xia Wang, Yongqing Wang, Xiaozhen Zhang (Jingdezhen, China), S. Cerneaux (Montpellier, France) and Jian-er Zhou (Jingdezhen, China) .....	4788
Seasonal behavior and techno economical analysis of a multi-stage solar still coupled with a point-focus Fresnel lens O. Younas, F. Banat and D. Islam (Abu Dhabi, UAE) .....	4796
Simulation and economic evaluation of small-scale SOFC-GT-MED M. Meratizaman, S. Monadizadeh and M. Amidpour (Tehran, Iran) .....	4810
Optimization of a membrane hybrid process for oil-in-water emulsions treatment using Taguchi experimental design D. Allende, D. Pando, M. Matos, C.E. Carleos, C. Pazos (Oviedo) and J.M. Benito (Burgos, Spain) .....	4832
Two-stage FO-BWRO/NF treatment of saline waters A. Altaee (Paisley, UK and Doha, Qatar), A.F. Ismail (Johor Bahru, Malaysia), A. Sharif (Doha, Qatar), G. Zaragoza (Almeria, Spain) and P.C. Carvalho (Fortaleza, Brazil) .....	4842
Geochemical modeling of brine remediation using accelerated carbonation of fly ash N.G. Muriithi (Maseno, Kenya), F.L. Petrik (Bellville, South Africa), and J.F. Doucet (Pretoria, South Africa) .....	4853
Optimization of the use of reclaimed water through groundwater recharge, using a Geographic Information System F. Pedrero, J.J. Alarcón, M. Abellán and P. Perez-Cutillas (Murcia, Spain) .....	4864
Variation of the chemical composition of Grouz dam waters, Eastern Algeria Z. Guerraiche, A. Boudoukha (Batna) and R. Benkadja (M'sila, Algeria) .....	4878
Application of artificial neural networks to estimating DO and salinity in San Joaquin River basin E. Salami Shahid and M. Ehteshami (Tehran, Iran) .....	4888
Near-field dilution of a vertical dense jet impinging on a solid boundary G.C. Christodoulou, I.K. Nikiforakis, T.D. Diamantis and A.I. Stamou (Zografou, Greece) .....	4898
Long-term disinfection performance of silver nanoparticles impregnated membranes A.C. Mecha, F.A.O. Otieno (Durban) and V.L. Pillay (Cape Town, South Africa) .....	4906
Fluctuation of organic substances, solids, protozoan cysts, and parasite egg at different units of a wastewater integrated stabilization pond (full scale treatment plant): a case study, Iran K. Sharafi (Kermanshah and Tehran), M. Pirsaheb, T. Khosravi, A. Dargahi (Kermanshah), M. Moradi (Tehran) and M.T. Savadpour (Ardabil, Iran) .....	4913
Performance enhancement of the poly (vinyl alcohol) (PVA) by activated natural clay clinoptilolite for pervaporation separation of aqueous-organic mixtures S. Ravindra, V. Rajinikanth, A.F. Mulaba-Bafubiandi and V.S. Vallabhapurapu (Johannesburg, South Africa) .....	4920

Effect of pH on the performance of olive pips reactive barrier through the migration of copper-contaminated groundwater A.A.H. Faisal (Baghdad, Iraq) .....	4935
Treatment of poultry slaughterhouse wastewater using a membrane process, water reuse, and economic analysis T. Coskun, E. Debik, H.A. Kabuk, N. Manav Demir, I. Basturk, B. Yildirim, D. Temizel and S. Kucuk (Istanbul, Turkey) .....	4944
Determination of polyepoxysuccinic acid in circulating water by spectrometric method Zhaoyan Liang, Qimeng Li, Canzhu Gao (Jinan), Zhongfa Cheng and Xiaojing Qi (Zaozhuang, China) .....	4952
Assessment of gross a and b radioactivity for drinking water in Hatay province, Turkey M.E. Turgay, A.N. Yazici (Gaziantep), H. Taskin, E. Kam and G. Karahan (Istanbul, Turkey) .....	4960
A multifaceted aggregation and toxicity assessment study of sol-gel-based TiO <sub>2</sub> nanoparticles during textile wastewater treatment B. Yuzer (Istanbul, Turkey), M. Guida (Naples, Italy), F. Ciner (Nigde, Turkey), B. Aktan (Denizli, Turkey), M.I. Aydin (Istanbul, Turkey), S. Meric (Tekirdag, Turkey) and H. Selcuk (Istanbul, Turkey) .....	4966
Effect of several factors on pseudo-kinetics in chlorine disinfection of phage MS2 Xuan Cai, Jing-chao Han, Ran Li, Yun Zhang, Yan Liu, Xiang Liu and Rui-hua Dai (Shanghai, China) .....	4974
The effect of ZnO on aerobic biodegradation of a novel polyacrylate tannage in activated sludge system Xiang fei Lü, Hong rui Ma, Kai Du, Ran Zhao, Xia Zhao and Jian zhong Ma (Xi'an, China) .....	4982
Optimization of effective parameters in the biosorption of Cr(VI) using acid treated date palm fiber from aqueous solution H. Hossini (Tehran), H. Esmaeili Taheri (Zabo), A. Arab Markadeh, A. Rezaee and S.O. Rastegar (Tehran, Iran) .....	4994
Adsorption of Hg(II) from aqueous solution using amino-functionalized graphite nanosheets decorated with Fe <sub>3</sub> O <sub>4</sub> nanoparticles Yingxia Ma, Peiqing La, Wenjuan Lei, Cuiping Lu and Xueyan Du (Lanzhou, China) .....	5004
Performance evaluation of natural iron-rich sandy soil as a low-cost adsorbent for removal of lead from water Yee Sern Ng (Kuala Lumpur, Malaysia), B. Sen Gupta (Edinburgh, UK) and M.A. Hashim (Kuala Lumpur, Malaysia) .....	5013
Removing lead from aqueous solutions using different low-cost abundant adsorbents Z. Melichová and A. Luptáková (Banská Bystrica, Slovak Republic) .....	5025
Photocatalyst treatment for lead(II) using titanium oxide nanoparticles embedded in PVA-alginate beads A. Idris, Z. Majidnia and K.S.b. Nor Kamarudin (Skudai, Malaysia) .....	5035
Column studies on the removal of dissolved organic carbon, turbidity and heavy metals from stormwater using granular activated carbon D.P. Sounthararajah, P. Loganathan, J. Kandasamy and S. Vigneswaran (Sydney, Australia) .....	5045
Adsorption of heavy metals from aqueous solutions by waste coffee residues: kinetics, equilibrium, and thermodynamics Chung-Hsin Wu (Kaohsiung), Chao-Yin Kuo (Douliou) and Shu-Shian Guan (Chang-Hua, Taiwan) .....	5056
Comprehensive study on the removal of chromate from aqueous solution by synthesized kaolin supported nanoscale zero-valent iron Chuan Wang (Ya'an), Zhen Xu (Ya'an and Hangzhou), Gang Ding, Xianxiang Wang, Maojun Zhao (Ya'an), Steven Sai Hang Ho (Xi'an) and Yunchun Li (Ya'an, China) .....	5065
Europium adsorption by non-treated and chemically modified <i>opuntia ficus indica</i> cactus fibres in aqueous solutions M. Prodromou and I. Pashalidis (Nicosia, Cyprus) .....	5079
Engineering behavior influence of basaltic rocks on the adsorption of heavy metal ions N.S. Ammar, A.I.M. Ismail and O.I. El-Shafey (Giza, Egypt) .....	5089
Removal of dianiline dithiophosphoric acid from wastewater by chelate precipitation Xuanmin Jie, Hui Wang and Yong Chen (Changsha, China) .....	5100
Adsorption of dibenzothiophene sulfone from fuel using chitosan-coated bentonite (CCB) as biosorbent Ming-Chun Lu (Tainan, Taiwan), L.C.C. Biel (Quezon, Philippines), Meng-Wei Wan (Tainan, Taiwan), R. de Leon, S. Arco (Quezon) and C.M. Futalan (Makati, Philippines) .....	5108
Equilibrium, kinetic, and thermodynamic studies on the biosorption of Bordeaux S dye by sericin powder derived from cocoons of the silkworm <i>Bombyx mori</i> V.R. Silva, F. Hamerski, T.A. Weschenfelder, M. Ribani (Curitiba), M.L. Gimenes (Maringá) and A.P. Scheer (Curitiba, Brazil) .....	5119

Boron removal from seawater using date palm ( <i>Phoenix dactylifera</i> ) seed ash M. Al.Haddabi (Perth, Australia and Al-Khod, Oman), M. Ahmed, Z. Al.Jebri (Al-Khod, Oman), H. Vuthaluru, H. Znad (Perth, Australia) and M. Al.Kindi (Al-Khod, Oman).....	5130
Applications of electrochemical ferrate(VI) for degradation of trichloroethylene in the aqueous phase Joo-Hee Nam, Il-Kyu Kim (Busan), Jaehyun Kwon and Young Do Kim (Kimhae, Korea) .....	5138
Degradation of chlorpyrifos, cypermethrin and chlorothalonil pesticides in aqueous solution by FeGAC/H <sub>2</sub> O <sub>2</sub> process A.C. Affam (Tronoh and Skudai), M. Chaudhuri, S.R.M. Kutty (Tronoh) and K. Muda (Skudai, Malaysia).....	5146
Catalytic wet peroxide oxidation of phenol using nanoscale zero-valent iron supported on activated carbon S.A. Messele, C. Bengoa, F. Stüber (Tarragona), A. Fortuny (Vilanova i la Geltrú), A. Fabregat and J. Font (Tarragona, Spain) .....	5155
Recovery of mixed acid and base from wastewater with bipolar membrane electrodialysis—a case study F. İlhan, H.A. Kabuk, U. Kurt, Y. Avsar (İstanbul) and M.T. Gonullu (Adiyaman, Turkey) .....	5165
Adsorption of tetracycline onto alumina: experimental research and molecular dynamics simulation Bin Zhao, Yingxue Ji, Fenghe Wang, Hua Lei and Zhongzhu Gu (Nanjing, China) .....	5174
Thermal/plasma treatment effect on photocatalytic degradation of aqueous solution of methylene blue using Au-doped Fe/TiO <sub>2</sub> photocatalyst A. Mahmood, S.M. Ramay, Y.S. Al-Zaghayer (Riyadh, Saudi Arabia), S. Atiq (Lahore, Pakistan) and S.H. Ansari (Islamabad, Pakistan) .....	5183
Removal of cationic dyes from aqueous solutions by a low-cost biosorbent: longan shell Shengfang Li and Min Tao (Huangshi, China).....	5193
Removal of a common textile dye, navy blue (NB), from aqueous solutions by combined process of coagulation–flocculation followed by adsorption H. Nourmoradi (Ilam), S. Zabihollahi and H.R. Pourzamani (Isfahan, Iran) .....	5200
Author Index.....	5212