

Contents

Volume 60

The performance of several enhanced treatment processes for treatment of algae-containing raw water in typical seasons	
Xiaoxiao Li, Yuejun Zhang, Xiaolei Zhao and Cheng Liu (China)	1
Reverse osmosis desalination system and algal blooms. Part III: SWRO pretreatment	
H.K. Abdulrahim, A.M. Al-Rasheed, A.S. Hassan, A.-N.A. Mabrouk, B. Shomar and M.A. Darwish (Qatar)	11
Applicability study of ecological impact assessment using AQUATOX model in Paldang Reservoir, South Korea	
Chun Gyeong Yoon, Han-Pil Rhee (Korea) and Yeongkwon Son (Korea and USA)	39
The integration of humidification dehumidification desalination and flue gas desulfurization	
N.F. Attia (Kuwait)	48
Experimental investigation of a bubble column humidifier heated through solar energy	
F.A. Al-Sulaiman (Saudi Arabia), H.M. Abd-Ur-Rehman (Saudi Arabia and Pakistan), M.A. Antar and O. Munteshari (Saudi Arabia)	58
Novel mesoporous silica (MCM-41) and its characterization for oil adsorption from produced water injected in water injection projects using fixed bed column processes	
H.H. El-Maghrabi, R. Hosny, M. Ramzi and M. Fathy (Egypt)	70
Feasibility evaluation of combined electrocoagulation/adsorption process by optimizing operating parameters removal for textile wastewater treatment	
A. Aouni, R. Lafi and A. Hafiane (Tunisia)	78
Theoretical study of phosphate adsorption from wastewater using Al-(hydr)oxide	
N.Y. Acelas and E. Flórez (Colombia)	88
A new strategy to reduce factor numbers in water quality measurements using Taguchi method – case study: The Karaj River	
A. Dehnoei and R. Taheri (Iran)	106
Comparison of bioremediation and phytoremediation in treatment of diethylene glycol from stationery industry	
P. Teamkao, S. Techkarnjararuk, P. Kullavanijaya and P. Thiravetyan (Thailand)	114
Recycling of hospital laundry wastewater using membrane technology	
M.Y. Ashfaq, T. Wang, H. Qiblawey, I. Abu Reesh (Qatar) and S. Judd (Qatar and UK)	122
Produced water treatment using olive leaves	
T.H. Ibrahim, M.A. Sabri, M.I. Khamis, Y.A. Elsayed, Z. Sara and B. Hafez (UAE)	129
Preparation and characterization of PAN/CNT nanocomposite fiber supports for membrane filtration	
E. Celik Madenli and O. Cakmakci (Turkey)	137
Optimization of extractive removal of formic acid from water by tri- <i>n</i> -propyl amine and dibenzyl amine in mono and dibasic ester diluents: LSER modeling	
A. Senol, M. Bilgin and B. Baslioglu (Turkey)	144
Preparation and characterization of activated carbon from Basra Ziziphus kernels and its adsorption characteristics for residual chlorine removal	
S.A.-A. Al-Khalil (Iraq)	160
Removal of Ponceau S by adsorption onto aluminophosphate: efficiency and modeling	
A. Flilissa, W. Sebaih (Algeria), V. Sivasankar (Japan), M. Boutahala (Algeria) and A. Darchen (France)	170
Kinetic and equilibrium isotherm studies of ammoniacal nitrogen adsorption onto sugarcane bagasse from wastewater	
K. Bhavsar, N.K. Shah, D. Buha and K. Atalia (India)	180

Dehydration of monohydric alcohols via pervaporation using nano NaX zeolite/polyvinyl alcohol mixed matrix membranes for biofuel production Y. Fathi, A. Raisi and A. Aroujalian (Iran)	188
Amino-functionalized bimodal ordered mesoporous carbon with high surface area for efficient adsorption of lead (II) ions Kunquan Li, Zeqing Wan, Jun Li, Mingzhou Lu and Xiaohua Wang (China)	200
Michelis–Menton kinetics for the simultaneous phytoremediation of Cr(VI) and phenol by determining the chlorophyll content using water hyacinth A. Gupta and C. Balomajumder (India)	212
Characterizing toluene adsorption onto carbon nanotubes for environmental applications L. Silvani, A. Latini (Italy), D. Reible (USA) and M. Petrangeli Papini (Italy)	218
Determination of design parameters for the cloud point extraction of Remazol Turquoise Blue G-133 dye using Triton X-114 surfactant D. Duraimurugan alias Saravanan (India), T. Murugesan (Malaysia) and A. Arunagiri (India)	228
Photocatalytic degradation of methyl orange by chitosan/CdS nanoparticle composite films Tao Feng (China and USA), Tingting Zhao, Lei Xu (China) and Baolin Deng (USA)	242
Kinetics, thermodynamics and isotherm studies on adsorption of methyl orange from aqueous solution using ion exchange resin Amberlite IRA-400 S.S. Behera, S. Das, P.K. Parhi, S.K. Tripathy, R.K. Mohapatra and M. Debata (India)	249
Adsorption of industrial Acid Red 114 onto Fe_3O_4 @Histidine magnetic nanocomposite A. Yıldız, E. Güneş, M. Amir and A. Baykal (Turkey)	261
Enhanced photo-catalytic activity of CeO_2 -ZnO nano-structure for degradation of textile dye pollutants in water M.H. Habibi and M. Fakhrpor (Iran)	269
Synthesis, characterization and application of pure ceria, pure zinc oxide, ceria zinc oxide nano composite: Synergetic effect on photo-catalytic degradation of Amido Black 10B in water M.H. Habibi and M. Fakhrpor (Iran)	276
Solar photocatalytic degradation of methylene blue in a fixed bed reactor O. Benhabiles, N. Chekir and D. Tassalit (Algeria)	285
Walnut skin nanoparticles as a novel and fast nano-biosorbent for the fast removal of lead ions from polluted water H. Karami, Z. Moosakhani and F. Goli.....	291
Removal of Pb(II) from water by carbonized walnut shell: characterization of adsorbent, adsorption capacity, kinetic, thermodynamic and isotherm studies B. Köse and S. Erentürk (Turkey)	301
Competitive adsorption of Pb^{2+} and Cd^{2+} onto activated carbon produced from municipal organic solid waste M.H. Al-Malack, O.G. Al-Attas and A.A. Basaleh (Saudi Arabia)	310
Application of nickel oxide nanoparticles as reusable sorbent for the removal of lead ions from contaminated water F. Rostamkhani, H. Karami and A. Ghasemi (Iran)	319
Exogenous application of salt (NaCl) inhibit antioxidative system in Cd-treated watercress (<i>Nasturtium officinale</i> R. Br.) A. Nasraoui-Hajaji (Saudi Arabia and Tunisia), K. Pageau (France), C.H. Chaffei and H. Gouia (Tunisia)	329
Removal of chromium (VI) metal ions using amberlite IRA-420 anions exchanger M.S. Mohy Eldin (Saudi Arabia and Egypt), A.S. Al-Bogami (Saudi Arabia), K.M. Aly (Egypt), Z.A. Khan (Saudi Arabia), A.E.M. Mekky, T.S. Saleh (Saudi Arabia and Egypt) and A.A.-W. Hakamy (Saudi Arabia)	335
Author Index.....	343