

Contents

Volume 57 Issue 56

Effect of chemical pretreatment on the silt density index of brackish water from north and south Kuwait R. Alazmi, M. Alazemi, I. Alhajri, Y. Alanezi (Shuwaikh) and A. Alhazza (Safat, Kuwait)	26907
Optimization of coagulation-flocculation process for medium density fiberboard (MDF) wastewater through response surface methodology P. Ghorbannezhad, A. Bay, M. Yolmeh, R. Yadollahi and J.Y. Moghadam (Gorgan, Iran)	26916
Investigating fertilizer drawn forward osmosis process for groundwater desalination for irrigation in Egypt P. Nasr (Cairo, Egypt) and H. Sewilam (Aachen, Germany)	26932
Natural vacuum distillation for seawater desalination – A review A. Rashid, T. Ayhan and A. Abbas (Isa Town, Bahrain)	26943
Optimal design of water treatment processes M.N. Koleva (London, UK and Adelaide, Australia), E.M. Polykarpou (Adelaide, Australia), Songsong Liu (London, UK), C.A. Styan (Adelaide, Australia) and L.G. Papageorgiou (London, UK)	26954
Reducing fouling of polyethersulfone microfiltration membranes by corona air plasma S. Afkham, A. Raisi and A. Aroujalian (Tehran, Iran)	26976
Investigation of groundwater hydrochemical characteristics using the multivariate statistical analysis in Ain Djacer area, Eastern Algeria D. Ziani, A. Boudoukha (Batna), A. Boumazbeur (Tebessa, Algeria), L. Benaabidate (Fez, Morocco) and C. Fehdi (Tebessa, Algeria)	26993
Effectiveness of a physicochemical coagulation/flocculation process for the pretreatment of polluted water containing Hydron Blue Dye M. Chenna (Tizi-Ouzou), R. Chemlal, N. Drouiche (Algiers), K. Messaoudi (Skikda) and H. Lounici (Algiers and Bouira, Algeria)	27003
Characterization of trihalomethanes (THM) and their precursors patterns in a drinking water conveyance network in Tunisia M. Rabhi (Tunis), I. Nouiri (Tunis), M.C. Rjeb (Ariana), M.F. Ben Hamouda (Sidi Thabet) and J. Tarhouni (Tunis, Tunisia)	27015
NaH ₂ PO ₄ as pH buffer in an anaerobic ammonium oxidation (anammox) reactor treating high-strength livestock manure digester liquor Yue Jin and Wenjie Zhang (Guilin, China)	27028
Adsorptive removal of amoxicillin from wastewater using wheat grains: equilibrium, kinetic, thermodynamic studies and mass transfer A. Boukhelkhal, O. Benkortbi, M. Hamadache, N. Ghalem, S. Hanini (Medea, Algeria) and A. Amrane (Rennes, France)	27035
Evaporation process for treating high-salinity industrial wastewater at low temperatures and ambient pressure Haoming Li, Heli Wang, Qingsong Liu, Yao Tan, Nan Jiang (Beijing) and Yingzi Lin (Changchun, China)	27048
Analysis of two-parameter and three-parameter isotherms by nonlinear regression for the treatment of textile effluent using immobilized <i>Trametes versicolor</i> : comparison of various error functions S. Vishali (Chennai) and P. Mullai (Chidambaram, India)	27061
Application of artificial neural networks and mathematical modeling for the prediction of water quality variables (case study: southwest of Iran) E.S. Salami, M. Salari (Shiraz), M. Ehteshami (Tehran), N.T. Bidokhti (Shiraz) and H. Ghadimi (Tehran, Iran)	27073
Alternatives for vacuum generation in unconventional seawater desalination systems H.M. Aviña Jiménez, G. León de los Santos (Ciudad de México), D. Sauceda Carbajal (Baja California), F. García Torres and M.Á. Benítez Torreblanca (Ciudad de México, Mexico)	27085

Comparison of sequencing batch reactor (SBR) and granular activated carbon-SBR (GAC-SBR) systems on treatment textile wastewater containing basic dye S. Sirianuntapiboon and K. Chairattanawan (Bangkok, Thailand)	27096
Impact of AC/O ₃ pretreatment on ultrafiltration processing sewage effluent for fouling alleviation Jin Guo, Liying Wang, Jie Shi, Yuqi Guan, Kailun Wang, Hong Liu, Jianhong Liu and Baogui Wang (Beijing, China)	27113
Improvement of antioxidant activity of olive mill wastewater phenolic compounds by <i>Lactobacillus plantarum</i> fermentation F. Kachouri, K. Setti, H. Ksontini, M. Mechmeche and M. Hamdi (Tunis, Tunisia)	27125
Probable problems in the analysis of chemical oxygen demand of wastewaters treated by advanced oxidation process: residual H ₂ O ₂ and acidity of the treated waters Xiao Ye, T. Okajima and T. Ohsaka (Yokohama, Japan)	27138
Wave generation in subsurface aeration system: a new approach to enhance mixing in aeration tank in wastewater treatment A.A.T. Alkhalidi (Amman, Jordan), H.B. Al Ba'ba'a and R.S. Amano (Milwaukee, WI, USA)	27144
Experimental study on the effect of feed water nozzles on non-equilibrium temperature difference and flash evaporation in a single-stage evaporator and an investigation of effect of process parameters on the liquid flashing in a LTTD desalination process D. Balaji (Chennai, India)	27152
Optimization of treatment efficiency of UV/H ₂ O ₂ process on simulated textile industry wastewater P. Manikandan, P.N. Palanisamy, R. Baskar, P. Sivakumar and P. Sakthisharmila (Perundurai, India)	27169
Phospholipids fatty acids analysis of microbial communities in sewage sludge composting with inorganic bulking agent Chuandong Wu, Wei Wang, Ke Wang, Xiangkun Li, Wei Qiu and Weiguang Li (Harbin, China)	27181
Lipid production by microalga <i>Scenedesmus</i> sp. AARL G022 in the cultivation with effluent from chicken manure biogas plant K. Duangjan, B. Kumsiri and C. Pumas (Chiang Mai, Thailand)	27191
Experimental and modeling study on adsorption of cationic methylene blue dye onto mesoporous biochars prepared from agrowaste A.A. Babaei (Ahvaz), S.N. Alavi (Tehran), M. Akbarifar, K. Ahmadi, A. Ramazanpour Esfahani and B. Kakavandi (Ahvaz, Iran)	27199
Removal of astrazon blue dye from aqueous media by a low-cost adsorbent from coal mining A. dos Santos (Maringá and Guarapuava), M.F. Viante, P.P. dos Anjos, N. Naidek (Guarapuava), M.P. Moises (Maringá), E.G. de Castro (Guarapuava, Brazil), A.J. Downs (Oxford, UK) and C.A.P. Almeida (Guarapuava, Brazil)	27213
KOH-activated carbon developed from biomass waste: adsorption equilibrium, kinetic and thermodynamic studies for Methylene blue uptake R.A. Rashid, A.H. Jawad, M.A.M. Ishak and N.N. Kasim (Shah Alam and Perlis, Malaysia)	27226
Selecting the optimal process for the removal of reactive red 198 dye from textile wastewater using analytical hierarchy process (AHP) M.H. Ehrampoush (Yazd), M. Miri (Sabzevar), S.M. Momtaz, M.T. Ghaneian, L. Rafati, H. Karimi (Yazd) and S. Rahimi (Isfahan, Iran)	27237
Removal of methylene blue from synthetic aqueous solutions with novel phosphoric acid-doped pyrazole-g-poly(glycidyl methacrylate) particles: kinetic and equilibrium studies M.S. Mohy Eldin (Jeddah, Saudi Arabia and Alexandria, Egypt), K.M. Aly (Jeddah, Saudi Arabia and Giza, Egypt), Z.A. Khan (Jeddah, Saudi Arabia), A.E.M. Mekky (Jeddah, Saudi Arabia and Giza, Egypt), T.S. Saleh (Jeddah, Saudi Arabia and Cairo, Egypt) and A.S. Al-Bogami (Jeddah, Saudi Arabia)	27243
Removal of MTBE from aqueous solution using natural nanoclays of Iran N.S. Naser Sheykhaleslami (Saveh), M. Irani, R. Gholamian (Tehran) and M. Aliabadi (Birjand, Iran)	27259
Basic Blue 41 removal by microwave hydrothermal reactor reduced graphene oxide S. Kimiagar, N. Rashidi (Tehran, Iran) and B.S. Witkowski (Warsaw, Poland)	27269
Simultaneous removal of phosphate and ammonium using salt-thermal-activated and lanthanum-doped zeolite: fixed-bed column and mechanism study Yinhai He, Hai Lin, Yingbo Dong, Quanli Liu and Liang Wang (Beijing, China)	27279

Defluoridation studies with synthesized magnesium-incorporated hydroxyapatite and parameter optimization using response surface methodology	
P. Mondal, D. Mehta and S. George (Jaipur, India).....	27294
Sonochemical degradation of basic fuchsin in water	
A. Taamallah (Annaba), S. Merouani (Annaba and Constantine) and O. Hamdaoui (Annaba, Algeria)	27314
Taguchi optimization for the removal of high concentrations of phenol from saline wastewater using electro-Fenton process	
G. Asgari, J. Feradmal (Hamadan), A. Poormohammadi (Kermanshah, Iran), M. Sadrnourmohamadi (Winnipeg, Canada) and S. Akbari (Karaj, Iran)	27331
Theoretical and experimental study of cephalexin batch adsorption dynamics using walnut shell-based activated carbon	
G. Nazari, H. Abolghasemi, M. Esmaeli and M. Assar (Tehran, Iran)	27339
Investigation of the removal of cyanide from aqueous solutions using biomass <i>Saccharomyces cerevisiae</i>	
R. Dehghani (Kashan), G. Moosavi (Isfahan), S.M. Takhtfiroozeh (Bandar Abbas) and G. Rashedi (Isfahan, Iran)	27349
Aminopropyl functionalization of superparamagnetic iron oxide/SiO ₂ nanocrystals for adsorption of bisphenol A from water	
A. Farmany, M.M. Shirmohammadi, S. Kazemi, M. Hatami and S.S. Mortazavi (Hamedan, Iran)	27355
Removal of Cu(II), Zn(II) and Cd(II) ions from aqueous solutions by adsorption on walnut shell – Equilibrium and thermodynamic studies: treatment of effluents from electroplating industry	
R. Najam and S.M.A. Andrabi (Srinagar, India)	27363
Positron annihilation study on polyaniline nanocomposite used for Pb(II) ion removal	
N.J. Al-Thani, J. Bhadra, D. Abdulmalik, I. Al-Qaradawi, A. Alashraf and N.K. Madi (Doha, Qatar).....	27374
Tannin-grafted aminated silicon adsorbents: adsorption performance of rare earth ions coexistence	
Rui-lin Yang, Ya-chun Liu, Qian Liu, Tian-tian Xu, Ke Zhu, Yue-yue Shen, Yang Liao and Shi-lin Zhao (Chengdu, China).....	27386
Investigation of heavy metal ions adsorption behavior of silica-supported Schiff base ligands	
M. Koorepazan Moftakhar, Z. Dousti, M.R. Yaftian and M. Ghorbanloo (Zanjan, Iran)	27396
Biosorption of aqueous lead and nickel by solvent-free synthesized flake-like polysaccharide resin	
M. Hossein Beyki, H. Alijani (Tehran) and Y. Fazli (Arak, Iran)	27409
Modified adsorbent hydroxypropyl cellulose xanthate for removal of Cu ²⁺ and Ni ²⁺ from aqueous solution	
Yongzhong Zhang, Chengcheng Luo, Hui Wang, Li Han, Chongqing Wang, Xuanmin Jie and Yong Chen (Changsha, China).....	27419
Author Index.....	27432