

Contents
Volume 28

Flux decline and membrane fouling in cross-flow microfiltration of oil-in-water emulsions M. Abbasi, M.R. Sebzari, A. Salahi (Tehran, Iran), S. Abbasi (Shiraz, Iran) and T. Mohammadi (Tehran, Iran).....	1
Removal of MTBE by novel <i>Exiguobacterium</i> in seawater G. Emtiazi, A.H. Abari (Isfahan, Iran) and F. Rahehagh (Tehran, Iran).....	8
Effect of surface morphology of macro-scale perlite particles on adsorption process of Malachite Green dye K. Badii, F.-L. Amini and S.-S.R. Ahari (Tehran, Iran)	12
Investigation of water disinfection efficiency using titanium dioxide (TiO_2) in permeable to sunlight tubes A.R. Mehrabadi, N. Kardani, M. Fazeli (Tehran, Iran), L. Hamidian (Bushehr, Iran), A. Mousavi and N. Salmani (Tehran, Iran)	17
Electrochemical synthesis of doped TNT as a nano photocatalyst for color degradation applications S.K. Asl, M.K. Rad and S.K. Sadraezhaad (Tehran, Iran).....	23
Uncertainty estimation for the determination of Fe, Pb and Zn in natural water samples by SPE-ICP-OES A. Ghorbani (Saveh, Iran), M. Rabbani and A. Porgham (Tehran, Iran)	28
Aqueous phase adsorption of organic compounds on activated carbon in fluidized bed E. Rezaei (Marvdasht, Iran), O. Mowla and D. Mowla (Shiraz, Iran).....	35
Treated municipal wastewater irrigation effect on lead content and health risks of nickel in soil and pepper in Shahrekord, Iran M. Moradmand and H.B. Harchegani (Shahrekord, Iran).....	42
Biodegradation of heavy crude oil in wastewater by an efficient strain, ERCPPI-1 P. Darvishi, D. Mowla, S. Ayatollahi and A. Niazi (Shiraz, Iran)	46
Evaluation of carbon nanotubes as solid-phase extraction sorbent for the removal of cephalexin from aqueous solution M. Jafari and S.F. Aghamiri (Isfahan, Iran)	55
Simultaneous water desalination and CO_2 capturing by hydrate formation M. Sarshar and A.H. Sharafi (Shiraz, Iran).....	59
Turbidity and BOD removal of a paper recycling mill effluent by electro-coagulation technique R. Behrooz, H.H. Abadi and B. Mohebby (Noor, Iran)	65
Batch kinetics and isotherms for biosorption of cadmium onto biosolids R.F. Fard (Iran), A.A. Azimi and G.R.N. Bidhendi (Tehran, Iran).....	69
Oily wastewater treatment using a hybrid UF/RO system A. Salahi, R. Badrnezhad, M. Abbasi, T. Mohammadi and F. Rekabdar (Tehran, Iran)	75
Prevention of biofilm formation in water and wastewater installations by application of TiO_2 nano particles coating F.A. Babakhani, A.R. Mehrabadi (Tehran, Iran), Piet N.L. Lens (The Netherlands) and M. Sadatian (Tehran, Iran)	83
How mercury can simply and effectively be removed from a waste stream M. Moussavi (Shiraz, Iran)	88
Preparation of ZnS nanocrystal and investigation of its photocatalytic activity in removal of C.I. acid blue 9 from contaminated water S. Aber, H. Mehrizade and A.R. Khataee (Tabriz, Iran).....	92
Application of physicochemically prepared activated carbon fiber for the removal of basic blue 3 from water S. Aber and M. Sheydae (Tabriz, Iran)	97
Evaluating efficiency of co-culture of two isolated <i>Pseudomonas aeruginosa</i> strains for removal of floating crude oil from oil-polluted wastewater A. Talaie (Delijan, Iran), M. Beheshti and M.R. Talaie (Isfahan, Iran)	103

Screening and batch treatment of wastewater containing floating oil using oil-degrading bacteria A. Talaie (Delijan, Iran), M. Beheshti and M.R. Talaie (Isfahan, Iran).....	108
Investigation of the oxidative decolorization of Acid Red 14 by peroxydisulfate with thermally activated and Ag(I) catalysis M.H. Rasoulifard (Zanjan, Iran), S.M.M.D. Mohammadi (Tabriz, Iran) and A. Heidari (Zanjan, Iran)	115
Adsorptive and desorptive studies on toxic dye Amaranth onto de-oiled mustard from wastewater R. Jain and S. Sikarwar (Gwalior, India).....	120
Polymer enhanced membrane filtration of metals: retention of single and mixed species of metal ions based on adsorption isotherms F.M. Almutairi, P.M. Williams and R.W. Lovitt (Swansea, UK)	130
High frequency back-pulsing for fouling development control in ceramic microfiltration for treatment of produced water S.H.D. Silalahi (Spangereid, Norway) and TorOve Leiknes (Trondheim, Norway)	137
Water import and transfer versus desalination in arid regions: GCC countries case study M.A. Dawoud (Abu Dhabi, UAE)	153
Adsorption of reactive dye from aqueous solutions by compost G. McKay (Hong Kong, SAR), M. Hadi (Sanandaj, Iran), M.T. Samadi, A.R. Rahmani, M.S. Aminabad and F. Nazemi (Hamadan, Iran).....	164
Evaluation of a deep-sea mesophilic bacteria exopolysaccharides in removal of low concentration Pb(II) from aqueous medium Y. Qie (Jinan, China), J. Wang (Shijiazhuang, China), W. Zhou, B. Gao and Y. Zhang (Jinan, China).....	174
Composite sorbent for attrition minimization S. Pal and P.K. Tewari (Mumbai, India).....	183
Investigation of acrylic acid extractability from aqueous solution using tridodecyl amine extractant H. Uslu (Istanbul, Turkey)	189
Adsorption of Th (IV) by peat moss L. Zhirong, Y. Rong and S. Xinhua (Jiangxi, P.R. China).....	196
Cost model for chitin production alkali wastewater recovery by couple-membrane filtration L. Zhao (Shanghai, China), W. Xia (Jiangsu Province, China) and H. Zhao (Shanghai, China)	202
Sequestering of Cd (II) and Ni (II) from aqueous solutions onto chelex 100 U.K. Garg (Longowal, India), V.K. Garg (Hisar, India) and D. Sud (Longowal, India).....	211
Review on passive solar distillation R. Balan, J. Chandrasekaran, S. Shanmugan, B. Janarthanan (Coimbatore, India) and S. Kumar (Thailand) ..	217
Numerical simulation of solar air heater with V-groove absorber used in HD desalination G. Cheng and L. Zhang (Shaanxi, China).....	239
Photodegradation study of congo red, methyl orange, methyl red and methylene blue under simulated solar irradiation catalyzed by ZnS/CdS nanocomposite H.R. Pouretedal (Shahin-Shahr, Iran) and S. Sabzevari (Shahreza Branch, Iran)	247
Removal of heavy metal ions from aqueous solutions by poly(methyl methacrylate-co-ethyl acrylate) and poly(methyl methacrylate-co-butyl methacrylate) membranes C. Cifci and O. Durmaz (Afyonkarahisar, Turkey)	255
Fenton oxidation of carpet dyeing wastewater for removal of COD and color P. Kumar (Varanasi, India), T.T. Teng (Penang, Malaysia), S. Chand (Roorkee, India) and K.L. Wasewar (Maharashtra, India)	260
Combined electro-photochemical oxidation for iron removal from ground water H.A. Talaat, M.Y. Ghaly, E.M. Kamel, A.M. Awad and E.M. Ahmed (Cairo, Egypt)	265
Optimum nanofiltration membrane arrangements in seawater pretreatment - Part-I A.-E. Abdullatef, M. Farooque, G. Al-Otaibi, M. Kither and S.A. Khamis (Al-Jubail, Saudi Arabia)	270
A review of electrocoagulation as a promising coagulation process for improved organic and inorganic matters removal by electrophoresis and electroflootation D. Ghernaout, M.W. Naceur (Blida, Algeria) and B. Ghernaout (Laghouat, Algeria)	287
Comparison of three membrane distillation configurations and seawater desalination by vacuum membrane distillation C. Huayan, W. Chunrui, J. Yue, W. Xuan and L. Xiaolong (Tianjin, China)	321

PV cell-driven humidification-dehumidification (H/D) process for brine treatment J.-H. Wang, N.-Y. Gao (Shanghai, China), Y. Deng (New Jersey, USA), S.-J. Xia and J.-L. Qiao (Shanghai, China)	328
Removal of bromate from aqueous solution by corncobs Y. Cui, Z. Hu, J. Chen and Z. Yan (Jiangsu, China)	338
Performance of RO plant with solar preheated feed water S. Suleiman, A. Meree, M. AL-Shiakh and F. Kroma (Damascus, Syria)	345
Research articles published in water resources journals: A bibliometric analysis M.-H. Wang, J. Li (Beijing, China) and Y.-S. Ho (Taichung, Taiwan)	353
Evaluation of oxidized media filtration for removing sulfides from groundwater S.J. Duranceau and V.M. Trupiano (Orlando, USA)	366
Characteristics of N ₂ O release from fluidized media type BNR processes and identification of N ₂ O sources T.-H. Kim, M.-J. Lee, H.-S. Jang, B.-K. Min, G.-Y. Yoo and S.-J. Hwang (Yongin, Korea)	378
COD fractionation based biological treatability assessment of segregated & recovered wastewater streams from denim processing plant G.Y. Töre and R. Güngör (Tekirdağ, Turkey)	385
Author Index.....	395