



Contents

Volume 36

Origin of groundwater salinity in the Morsott-El Aouinet basin, Northeastern Algeria: hydrochemical and environmental isotopes approaches C. Fehdi, A. Boudoukha, A. Rouabhia, E. Salameh	1
Retrospective of natural mineral waters and spring waters in Algeria: Regulatory Framework and Technical Aspects A. Hazzab	13
Removal of trace FeCl ₃ from aqueous solution by foam fractionation Z. Wu, W. Song, K. Lu, H. Zheng, L. Jiao	27
Impact of anionic surfactants on oxygen transfer rate in the electroflotation process M. Kotti, I. Ksentini, L. Ben Mansour	34
Simulation of vacuum membrane distillation coupled with solar energy: Optimization of the geometric configuration of a helically coiled fiber A. Zrelli, B. Chaouchi, S. Gabsi	41
Factors influencing the chloride removal of aqueous solution by calcined layered double hydroxides Y. Zhao, W. Hu, J. Chen, L. Lv	50
Prevention of calcium sulfate formation in seawater desalination by ion exchange L. Zhu, C.B. Granda, M.T. Holtzapfle	57
Recovery of water from saturated solutions by membrane processes P. Sarkar, S. Prabhakar, S. Tiwari, D. Goswami, P.K. Tewari	65
Efficiency of membrane bioreactor system in treating primary treated wastewater in Kuwait S.B. Al-Shammari, S. Bou-Hamad, A. Al-Saffar, A. Al-Sairafi	75
Bi-ionic potential: Experimental measurements and diffusion coefficients determinations J.A. Ibáñez-Mengual, J.A. García-Gamuz, R.P. Valerdi-Pérez	81
Identification of organotin compounds in Tunisian surface water by liquid chromatography-electrospray-tandem mass spectrometry L.L.E. Atrache, J. Tortajada, M. Dachraoui	89
Biodegradation kinetics of phenol by predominantly <i>Pseudomonas</i> sp. in a batch shake flask P. Saravanan, K. Pakshirajan, P. Saha	99
Prediction of metal ion rejection in electro-cross-flow ultrafiltration using an artificial neural network A. Ames, E. Rogel-Hernandez, S.W. Lin, L.Z. Flores-López, J.R. Castro, F.T. Wakida, S. Melendez, H. Espinoza-Gomez	105
Thermal performance and biological evaluation of solar water disinfection systems using parabolic trough collectors A.M. Abdel Dayem, H.H. El-Ghetany, G.E. El-Taweel, M.M. Kamel	119
Integrated PV-thermal system for desalination and power production V.G. Gude, N. Nirmalakhandan, S. Deng	129
Utilization of agricultural waste chestnut shell for the removal of Reactive Brilliant Red K-2G from aqueous solution J.-F. Gao, J.-H. Wang, Q. Yuan, C. Yang, S.-Y. Wang, Y.-Z. Peng	141

Analysis of transmembrane electrical potential across nanofiltration membranes based on electrostatic and steric-hindrance model C.-H. Tu, Y.-Y. Fang, X.-L. Wang	152
Adsorption behaviors of lead ion onto acetate modified activated carbon fiber Z.-l. Shi, F. Li, S.-h. Yao	164
Experimental test for high saline wastewater treatment in a submerged membrane bioreactor J. Li, D. Yu, D. Wang	171
Entrapment of Mg-Al layered double hydroxide in calcium alginate beads for phosphate removal from aqueous solution Y.-U. Han, W.-S. Lee, C.-G. Lee, S.-J. Park, K.-W. Kim, S.-B. Kim	178
Extraction of phenol from aqueous effluent using triglycerides in supported liquid membrane V. Badgajar, N.K. Rastogi	187
Photochemical degradation of typical herbicides simazine by UV/H ₂ O ₂ in aqueous solution C. Li, N. Gao, W. Li	197
Adsorption kinetics of Cd (II) from aqueous solution by magnetite X.S. Wang, F. Liu, H.J. Lu, P. Zhang, H.Y. Zhou	203
Preparation and characterization of mullite tubular membranes O. Bakhtiari, M. Samei, H. Taghikarimi, T. Mohammadi	210
Prospect of using alternative energy for power and desalted water productions in Kuwait M.A. Darwish	219
Energy consumption and recovery in reverse osmosis V.G. Gude	239
Facilitated transport of copper through bulk liquid membrane containing di-2ethylhexyl phosphoric acid M. Kermiche, S. Djerad	261
Effect of surfactants on gypsum scale inhibition by polymeric inhibitors Z. Amjad	270
Organo-bentonite for the adsorption of Pb(II) from aqueous solution: Temperature dependent parameters of several adsorption equations E. Nathaniel, A. Kurniawan, F.E. Soeteredjo, S. Ismadji	280
Single and multielementary isotherms of toxic metals in aqueous solution using treated coconut shell powder F.W. Sousa, A.G. Oliveira, J.P. Ribeiro, D.D. Keukeleire, A.F. Sousa, R.F. Nascimento	289
Recovery optimization of membrane processes for treatment of produced water with high silica content A. Subramani, R. Schlicher, J. Long, J. Yu, S. Lehman, J.G. Jacangelo	297
Nanofiltration as pretreatment for scale prevention in seawater reverse osmosis desalination L. Llenas, X. Martínez-Lladó, A. Yaroshchuk, M. Rovira, J.d. Pablo	310
Municipal sewage sludge characteristics and waste water treatment plant effectiveness under warm climate conditions A.A. Zorpas, C. Coumi, M. Drtil, I. Voukalli	319
Removal of Cr (VI) from aqueous solution using MCM-41 L. Tian, G. Xie, R. Li, X. Yu, Y. Hou	334
The impact of natural organic matter seasonal variations in drinking water quality M.R. Teixeira, L.M. Nunes	344
Theoretical analysis of sliding vane energy recovery device O.M. Al-Hawaj	354
The effects of feed water temperature and dissolved gases on permeate flow rate and permeate conductivity in a pilot scale reverse osmosis desalination unit M.J. Francis, R.M. Pashley	363
Orange-II removal from simulated wastewater by adsorption using <i>Annona squamosa</i> shell – A kinetic and equilibrium studies G.H. Sonawane, V.S. Shrivastava	374

Effects of the simple/double glass cover use and the orientation of a simple solar still on operating parameters N. Hidouri, K. Hidouri, R.B. Slama, S. Gabsi	383
Factorial design for optimizing the removal of aluminium from aqueous solutions by adsorption on <i>Typha domingensis</i> phytomass A.K. Hegazy, N.T. Abdel-Ghani, G.A. El-Chaghaby	392
Author Index	400