



Contents

Volume 103

Thermal modeling and performance of a single slope passive solar still with phase change material C. Nithyanandam, G. Baskar, R. Umamaheswari (India)	1
Economic analysis of a household solar desalination device integrated with photo thermal and photovoltaic Ke Yang, Xuepan Cheng, T. Mwamulima, Hao Guo, Changsheng Peng (China)	11
Assessment of membrane fouling and biopolymers in a novel membrane bioreactor– microbial fuel cell hybrid system Liang Duan, Yuan Tian, Jian Wei, Feng Qian, Jifeng Guo, Yonghui Song, Xiaoling Liu (China)	18
The prediction of cellulose acetate membrane characteristics by recent phenomenological models T. Jafarpour, Z. Maghsoud, S.M. Mousavi (Iran)	28
Graphitic-like carbon nitride improved thermal stability and photocatalytic antifouling performance of polyethersulfone membranes Manying Zhang, Minglai Fu, Kaisong Zhang (China)	40
Improved treatment of tannery wastewater treatment plant effluent using polymeric coagulants K. Sivagami, K.P. Sakthivel, I.M. Nambi (India)	49
Comparison of ozonation and coagulation decolorization methods in real textile wastewater M.I. Aydin, B. Yuzer, A. Ongen, H.E. Okten, H. Selcuk (Turkey)	55
Sodium and potassium removal from brackish water by nanofiltration membrane: single and binary salt mixtures A. Fatehizadeh, E. Taheri, M.M. Amin, M. Mahdavi, N. Moradi (Iran)	65
Color removal for simulated nanofiltration concentrates of dye wastewater with iron ion supported nano-size silica microgel Fenton/coagulation processes Chun Ming Zheng, Shu Bin Chang, Dong Ying Lian, Hai Tao Wang, ChuanWu Yang, Shi Jun Wei, Meng Wei Du, Shi Chao Xu, Xiao Hong Sun (China)	72
Optimization of batch process parameters for Congo red color removal by <i>Neurospora crassa</i> live fungal biomass with wheat bran dual adsorbent using response surface methodology P. Vairavel, V. Ramachandra Murty (India)	84
Adsorption of cationic dye from aqueous solution using molecularly imprinted polymers (MIPs) M.A. Zulfikar, Mustapa, M.B. Amran, A. Alni, D. Wahyuningrum (Indonesia)	102
Removal of methylene blue from water by food industry by-products and biochars A.G. Orfanos, I.D. Manariotis, H.K. Karapanagioti (Greece)	113
Preparation of NaX zeolite films for the sorption of Pb ²⁺ , Cd ²⁺ and Cu ²⁺ Chunxiu Zhang, Huasheng Xu, Jinpeng Yu, Pengfei Wang (China)	122
Copper adsorption from aqueous solution by activated carbon of wax beans waste activated by magnetite nanoparticles M. Arbabi, N. Golshani, S. Hemati, A. Arbabi (Iran)	133
Nickel ion removal from aqueous solution using recyclable zeolitic imidazolate frameworks-8 (ZIF-8) nano adsorbent: a kinetic and equilibrium study Z. Roostan, A. Rashidi, S.M. Borghei (Iran)	141
Removal of heavy metal ions from wastewater by combined modified kaolin Min Yang, Nana Lei, Jingxuan Liu, Lie Yang, Bolin Li, Xiaoman He (China)	152
Selective transport of chromium (III), cobalt (II), barium (II) and strontium (II) ions through polymer inclusion membranes D.A. Fadel, L.A. Shouman, R.M. Afify (Egypt)	163
Green synthesis of 3D porous graphene/lignin composites with improved adsorption capacity for heavy metal ions in aqueous solution Fang Zhou, Jingang Yu, Xinyu Jiang (China)	175

A comparative study of hybrid artificial neural network models for predicting Cr(VI) adsorption onto activated carbon C. Sutherland, B.S. Chittoo, C. Venkobachar (Trinidad and Tobago)	182
Biosorptive removal of cobalt from aqueous solution by using native and thiourea modified <i>Pennisetum glaucum</i> A. Yousaf, M. Athar, M. Salman, U. Farooq, N. Makshoof, Z. Zaman, M. Sohail (Pakistan)	199
Removal of copper (II) from aqueous solution using granular sodium alginate/activated carbon hydrogel in a fixed-bed column L. Adhami, M. Mirzaei (Iran)	208
Adsorption of heavy metal ions with modified diatomite from effluent Wangkun Liu, Jian Zhang, Na Li, Qingwei Ping (China)	216
Hybrid nano-adsorbent supported carbon dots for removal of chromium from aqueous solution A. Eslami, S.M. Borghei, A. Rashidi, A. Takdastan (Iran)	221
Quantitative analysis of some inorganic anions (nitrate and nitrite) in metropolitan and bottled water samples using ultra-performance liquid chromatography/electrospray ionization mass spectrometry I.H. Alshaimi, M.R. Khan, Z.A. Alothman, S.M. Wabaidur, M.R. Siddiqui, N.F. Alotaibi, A.A. Ghfar (Saudi Arabia)	232
Mixed cultured algal and bacterial remediation of dissolved organic nitrogen under low solid retention time condition S. Sharma, H. Simsek (USA)	240
Evaluation of adsorption and removal of methylparaben from aqueous solutions using amino-functionalized magnetic nanoparticles as an efficient adsorbent: Optimization and modeling by response surface methodology (RSM) F. Mohammadi, A. Esrafil, H.R. Sobhi, M. Behbahani, M. Kermani, E. Asgari, Z.R. Fasih (Iran)	248
A spatial variation study of groundwater quality parameters in the Gonabad Plain using deterministic and geostatistical models A. Moghaddam, A. Moteallemi, F. Joulaei, R. Peirovi (Iran)	261
Acid modified natural clay as a judicious solution for the successive treatment of ametryn S.F.A. Shattar, N.A. Zakaria, K.Y. Foo (Malaysia)	270

***Selected papers presented at the 1st International Congress on Water and Sustainability
26–27 June 2017, Terrassa, Barcelona, Spain***

Editorial B. Amante García, L. Canals Casals, N. Olmedo-Torre (Spain)	280
Evaluation of the autochthonous free-floating macrophyte <i>Salvinia biloba</i> Raddi for use in the phytoremediation of water contaminated with lead W. Tello Zevallos, L.M. Salvatierra, D.B. Loureiro (Argentina), J. Morató (Spain), L.M. Pérez (Argentina, Spain)	282
Chemical treatment and reuse applications for latex paint industry wastewater R. Riveros (Peru)	290
Application of ultrafiltration for drinking water production in decentralised systems: 20 years of the AQUAPOT project J.M. Arnal, B. García-Fayos, M. Sancho (Spain)	296
Natural coagulants: analysis of potential use for drinking water treatment in developed and developing countries B. García-Fayos, J.M. Arnal, M. Sancho (Spain)	307
A review on the present situation of wastewater treatment in textile industry with membrane bioreactor and moving bed biofilm reactor Xuefei Yang, M. Crespi, V. López-Grimau (Spain)	315
Reducing environmental impact of textile waste water by natural coagulants and reuse of effluents H. Salas, V. Lopez-Grimau, M. Vilaseca, M. Crespi, C. Gutiérrez-Bouzán (Spain)	323
Design, automation and remote management of a water purification plant B. Amante García, L. Canals Casals, F.J. Mera-Clavijo (Spain)	329
Author Index	337