

Contents

Volume 94

Enhancing performance of low-temperature desalination using spray evaporation S.A. Elagouz, G.B. Abd El-Aziz, A.M. Awad (Egypt)	1
Electric biological coupling process (EBCP) for wastewater treatment: a general review Xing Li, Yan Feng, Hao Chen, Yanzhen Yu (China)	11
An environmental-friendly study on sanitary wastewater treatment for small community M. Moradnia, M.M. Emamjomeh (Iran)	25
Removal of fluoride ions by calcium hydroxide-modified iron oxides J.J. García-Sánchez, M. Solache-Ríos, V. Martínez-Miranda, I. Rodriguez-Torres (Mexico)	31
Influence of the type of activated carbon on invertebrate leakage in biological activated carbon filter Zhiling Wu, Xianchun Tang, Hongbin Chen (China)	40
Phosphorus sorption with modified sediments from a malodorous river: kinetics, equilibrium, and thermodynamic studies Xing Chen, Ying Lu, Cheng Yao, Xia Jiang, Wei Huang (China)	47
Performance and the microbial community of horizontal subsurface-flow constructed wetland for rural sewage treatment Feihong Guo, Zhaoping Zhong (China)	56
Potential application of renewable energy sources at urban wastewater treatment facilities in Palestine – three case studies M. Taha, R. Al-Sa'ed (Palestinian Authority)	64
Central composite design based electrocoagulation process for the treatment of textile effluent of S.I.T.E., industrial zone of Karachi City A.R. Shah, H. Tahir, H.M. Kifayatullah (Pakistan)	72
Effects of polyacrylamide addition and dosage on the effectiveness of sludge-recycling enhanced flocculation Wei Wei, Jia Zhu, Chaosheng Zhang, Hongwei Rong, Yongfeng Cao (China)	89
Enhanced dewaterability of sewage sludge by Fe ²⁺ -activated persulfate oxidation under mild temperature Qiao Xiong, Min Zhou, Mengjia Liu, Yi Han, Haobo Hou (China)	100
Best management practices (BMPs) site selection for reducing urban surface runoff at target locations M.H. Rashidi Mehrabadi, B. Saghabian, M.R. Bazargan-Lari (Iran)	109
Removal of BTEX and hexane by organo-zeolites: The influence of surfactants carbon chain length on the sorption process M. Wołowiec, B. Muir, T. Bajda, K. Zięba, B. Kijak, W. Franus (Poland)	120
Alginate-based hydrogel for water treatment S.M.A. Soliman, A.M. Ali, M.W. Sabaa (Egypt)	129
Surface coating of a side-chain type polyelectrolyte for endowing perm-selectivity between specific anions to an anion-exchange membrane with a small loss of membrane conductivity Yan-zhen Shen, Xun-liang Wang, Yu-xiang Jia, Meng Wang (China)	137
Treatment of landfill leachate waste using sono (US) and photo (UV) based advanced oxidation processes: Studies on various operating parameters P. Asaithambi (Ethiopia, Malaysia), D. Beyene, E. Alemayehu (Ethiopia)	147
Synthesis of nanostructured ZnO/copper electrodes for nitrate electroreduction N. Ait Ahmed, H. Hammache (Algeria), M. Eyraud (France), L. Makhloufi, N. Gabouze (Algeria)	156
Equilibrium, kinetics and mechanism for the removal of Rhodamine B by adsorption on Okoume (Aucoumea Klaineana) sawdust from aqueous media E.K. Guechi (Algeria)	164

Electrochemical regeneration of granular activated carbon saturated with Rhodamine B in a fluidized electrochemical reactor J. Basiri Parsa, F. Jafari (Iran)	174
Removal of cadmium (II) from water using fibre fruit lufa as biosorbent E.K. Guechi, D. Beggas (Algeria)	181
The modelling of arsenic removal from water by deep eutectic solvents functionalized CNTs: Artificial neural network (ANN) approach Seef Saadi Fiyadh, M.A. AlSaadi, M.K. AlOmar (Malaysia), Sabah Saadi Fayaed (Iraq), S. Bee, A. El-Shafie (Malaysia)	189
Adsorption of copper(II) and zinc(II) ions from aqueous solution by activated carbon derived from halophytes (<i>Suaeda maritime</i>) M.M. El-Bouraie, G.G. Mohamed (Egypt)	198
Congo red adsorption on metal-organic frameworks, MIL-101 and ZIF-8: kinetics, isotherm and thermodynamic studies Cao Yang, Linling Yu, Rouxi Chen, Jianhua Cheng, Yuancai Chen, Yongyou Hu (China)	211
Development of carbon nanotube-mycosorbent for effective Congo red removal: optimization, isotherm and kinetic studies E. Azin, H. Moghimi, R.A. Taheri (Iran)	222
The ability of <i>Phanerochaete chrysosporium</i> (ME446) on chemical oxygen demand remediation in submerged culture medium supplemented with malathion insecticide G.O. Erguvan, N. Yildirim, E. Adar (Turkey)	231
Adsorptive transfer of methylene blue from aqueous solutions to hazelnut husk carbon activated with potassium carbonate C. Ozer, M. Imamoglu (Turkey)	236
Hydroxy-aluminium and cetyltrimethyl ammonium bromide modified bentonite as adsorbent and its adsorption for Orange II Dandan Xu, Wenyun Li, Kewang Wang, Yunshan Bai, Qingwen Lin, Mengfan Gao, Hongzhu Ma (China)	244
Enhanced photocatalytic degradation of caffeine as a model pharmaceutical pollutant by Ag-ZnO-Al ₂ O ₃ nanocomposite A. Elhalil, R. Elmoubarki, M. Sadiq, M. Abdennouri (Morocco), Y. Kadmi, L. Favier (France), S. Qourzal, N. Barka (Morocco)	254
Adsorption characteristics of tetracycline antibiotics from aqueous solution onto graphene nanoplatelets: Equilibrium, kinetic and thermodynamic studies Dian-Peng Sui, Hong-Hong Li, Yuan Chai, Jian Li, Shuang Liu, Yue Zhao, Hong-Tao Fan, Hong-Bo Xu (China)	263
Author Index	272