



Contents

Volume 248

Effect of the variation of a mass-flow-rate and a number of collectors on the performance of an active solar still D. Kumar, R.K. Sharma, D.B. Singh (India)	1
A novel forward osmosis for treatment of high-salinity East Baghdad oilfield produced water as a part of a zero liquid discharge system M.H. Salih, A.F. Al-Alawy (Iraq)	18
Initiation and inhibition of pitting corrosion on C-steel in oilfield-produced water under natural corrosion conditions S. Abd El Wanees, M.M. Kamel, S.M. Rashwan, Y. Atef, M.G. Abd El Sadek (Egypt)	28
Composition and variability of the activated sludge biocenosis in membrane biological reactors M. Polus, Z. Mucha, J. Mikosz, M. Mucha (Poland)	39
Application of the membrane bioreactor process in upgrading a norfloxacin pharmaceutical wastewater treatment system Jianlei Gao, Zhihao Yue, Yixin Yan, Yongfeng Zhang, Xianglong Guo, Wanqiu Zhu (China)	49
Zoning assessment of county water environment carrying capacity in typical river network areas — a case study of Changxing County in the Taihu Lake Basin Yun Huang, Yanyan Fan, Yanhong Ren, Jinqi Zhu, Bofu Zheng (China)	61
Coagulation-flocculation performance and floc properties of composite bioflocculant PAFC-CBF in treating the surface water Lixin Li, Cheng Peng, Fang Ma (China)	70
Wastewater treatment containing organic solvent from the production of hybrid membranes B.A. Araújo, E.M. Araújo, K.S. da Silva, G.G.C. de Lima, K. Machado de Medeiros, C.A.P. de Lima (Brazil)	79
Photocatalytic oxidation of gold processing wastewater from a gold mine in Southwest Guizhou Autonomous Prefecture Jian Zhao, Haili Wang, Huayu Yuan, Xiaoli Lin, Yonggeng Yan, Yuehu Wang, Lei Liu, Hang Zhang, Mengyu Chen (China)	94
Adsorption of pollutants in sanitary landfill leachate using granular activated carbon and bentonite clay N.A. Gomes, E.M. da Silva, L.T.M.S. Silva, D.B. da Costa, W. de Paiva, V.E.D. Monteiro, M.C. de Melo (Brazil)	111
Catalytic chemical reduction of Cr(VI) from contaminated waters by the production of hydrogen radical on the cellulose sulfate microfibers coated with palladium nanocatalyst M.Jokar, G. Nabi Bidhendi, H. Naeimi (Iran)	124
Modelling and optimization of lead adsorption by CoFe ₂ O ₄ @CMC@HZSM-5 from aqueous solution using response surface methodology A. Nasiri, M. Malakootian, N. Javid (Iran)	134
Preparation and application of polyethersulfone ultrafiltration membrane incorporating NaX zeolite for lead ions removal from aqueous solutions H.N. Alfalahy, S.M. Al-Jubouri (Iraq)	149
Adsorptive removal of Pb ²⁺ and Cu ²⁺ from aqueous solution using an acid modified glucuronoxylan-based adsorbent M.A. Hussain, A. Abbas, E. Yameen, A. Ali, G. Muhammad, M. Hussain, Z. Shafiq (Pakistan)	163
Decontamination of copper(II) from aqueous solutions using synthesized polyaniline/montmorillonite composite A.A. El-Zahhar (Saudi Arabia, Egypt), M.Z. Bani-Fwaz, I.H. Ali, R. Marzouki (Saudi Arabia)	176
Adsorption of copper and lead ions from solution by PVDF-PEI blend film Xiaoting Zhang, Runping Han (China)	188

The application of response surface methodology and Design Expert® for analysis of ciprofloxacin removal from aqueous solution using raw rice husk: kinetic and isotherm studies	
H.A.M. Atta, K.K. Hummadi, M.J. M-Ridha (Iraq)	203
A novel method for the removal of ammonia in hospital wastewater using flow electrolysis	
R. Riyanto, M.S. Hakim, I.R.W. Ningrum, T. Huda (Indonesia)	217
Rapid adsorption of tetracycline from aqueous solution on fly ash	
Yuebing Sun, Yingjie Dai, Xiaorou Wang, Dexin Shan (China)	226
Tetracycline adsorption by clay under the coexistence of three extracts from an invasive plant	
Ming-xi Wang, Hong-yan Deng, Wen-bin Li, Jiang-ming Ouyang, Zi-shan Lu, Zhi-qiang Zhang (China)	237
Effect of linear alkylbenzene sulfonate (LAS) on the coagulation of ZnO nanoparticles in aqueous matrix	
D.B. Guimarães, F.J.C. Teran, R.M.F. Cuba (Brazil)	247
Degradation of acesulfame by ultraviolet-activated peroxymonosulfate: role of sulfate and hydroxyl radicals	
Honghai Xue, Jinying Li, Siyu Gao, Binshuo Liu, Wenbo Zhu, Chunqing Wang, Ming Li (China)	259
Modification of glassy carbon surface using L-cysteine-capped Mn-doped ZnS quantum dots and multi wall carbon nanotube nanocomposite: application to determine hydrazine in water samples	
N. Amini, M.B. Gholivand, M. Shamsipur, A. Maleki, K. Naderi (Iran), N. Marzban (Germany), Seung-Mok Lee, Choong Jeon (Korea)	268
Co-pyrolysis of sewage sludge and grape dreg to produce efficient and low-cost biochar for methylene blue removal: adsorption performance and characteristics	
Meng Mei, Jingxin Liu, Teng Wang, Si Chen, Damin Liu, Jinping Li (China)	277
Treatment of dyes contaminated water using surfactants modified activated carbon derived from rice husk	
W. Ahmad, Z. Amin, T. ur Rehman (Pakistan), F. Hussain (China), M. Ilyas (Pakistan)	288
Author Index	300