

Contents

Volume 147

Fabrication, characterization, and performance study of acriflavine TFC nanofiltration membrane for brine concentration	1
B. Garudachari, M. Ahmed, R. Kumar, J.P. Thomas (Kuwait)	
Effects of extra amine sources on the permeability and separation properties of nanofiltration membranes prepared by polydopamine deposition	10
Jiaqi Li, Anqi Tang, Jingyu Lu, Peibin Zhang, Mingxia Shen, Liping Zhu (China)	
High-flux electrospun polyvinyl alcohol microfiltration nanofiber membranes for treatment of oil water emulsion	20
E. Karimi, S.S. Barekati, A. Raisi, A. Aroujalian (Iran)	
Biofouling characteristics of reverse osmosis membranes during dyeing wastewater desalination	31
Jianhong Shi, Yinglong Su, Chongxin Du, Bing Xie (China)	
The effect of coagulation time on the performance of thin-film composite reverse osmosis membrane supported on nonwoven polyester fabric	38
R.I. Gaber, A.H. Konsowa, M.G. Elofty, E.A. Fadl, S.H. Kandil (Egypt)	
Tetraethylorthosilicate-assisted interfacial polymerization for the fabrication of polyamide thin-film nanocomposite reverse osmosis membranes with enhanced desalination performance	46
Yulin Wei, Han Zhang, Guiyu Zhu, Zhaofeng Liu, Guojia Ji, Congjie Gao (China)	
Fabrication of high-performance nanofiber-based FO membranes	56
R.M. El Khaldi, M.E. Pasaoglu, S. Guclu, Y.Z. Menceloglu, R. Ozdogan,	
M. Celebi, M.A. Kaya, I. Koyuncu (Turkey)	
Design and characterization of a cost-effective cermet membrane: implementation in paper mill wastewater treatment	73
M. Ben Hamden (Tunisia), G. Lecomte-Nana (France), J. Bouaziz (Tunisia)	
Removal of salt from the Caspian Sea using a single- and double-layer membrane microbial desalination cell in continuous-mode operation	83
L.R. Kalankesh, M.A. Zazouli (Iran)	
Aerobic granular sludge in a sequencing batch reactor for tomato paste processing wastewater treatment: formation, characteristics, and microbial community structure	90
Weihong Wang, Yanshan Wang, Xinliao Dong, Qianqian Liu, Qiwei Chen (China)	
Experiment research on MVR system for industrial wastewater treatment	99
Guangbin Liu, Qichao Yang, Yuanyang Zhao, Liansheng Li, Le Wang (China)	
Biological treatment of the refractory gardenia-yellow-manufacturing wastewater and microbial community shift in A/O reactors	106
Minhui Tian, Haisong Li, Xiaolei Chen, Dongjin Wan, Junfeng Wan, Mengmeng Huang (China)	
Immobilization of 2-(2-hydroxybenzylidinoamino) pyridin-3-ol on silica gel and application to industrial wastewater	116
A. Çimen, A. Bilgiç (Turkey)	
Isolation and identification of phenol-degrading bacteria in the industrial wastewater from the coal tar mine of Zarand in Iran	125
M. Hassanshahian, M. Abarian, K. Bahramzadeh (Iran), M. Genovese (Italy)	
Synthesis and optimization of co-polymerized graphene oxide spin-coated over nylon for efficient water desalination	135
A. Jorsaraei Talar, T. Ebadi, R. Maknoon, A. Rashidi (Iran)	
Mineralization of olive mill wastewater under hydrothermal conditions	143
Ç. Ersanlı, A. Yüksel Özşen (Turkey)	
Occurrence and spread of beta-lactamases-producing <i>Enterobacteriaceae</i> isolated from river receiving treated effluent of wastewater treatment plant	156
Abdelbasset Mechai, M. Debabza, R. Thabet, H. Sedira, S. Fadeleddine, Abdelouaheb Mechai (Algeria)	

An investigation of dual-step ozone induced flotation (DOIF) process for tertiary wastewater treatment: characteristics of aerated flocs, removal performance and mechanism Meiyan Liu, Lihui Zhou, Ning Liu, Xin Jin, Pengkang Jin, Xiaochang C. Wang (China)	164
Removal of some heavy metal ions from water using novel adsorbent based on iron oxide-doped sol-gel organic-inorganic hybrid nanocomposite: equilibrium and kinetic study M. Esmaeili Bidhendi, M.A. Gabris, V. Goudarzi, S. Abedynia (Iran), B. Hadi Juma (Saudi Arabia), H. Sereshti (Iran), M.A. Kamboh (Pakistan), M. Soylak (Turkey), H. Rashidi Nodeh (Iran)	173
The production process of barium in shale gas flowback water based on ion-exchange kinetics Xuecheng Zheng, Wei Luo, Nanjun Lai (China)	183
Adsorption of Cr(VI) in aqueous solution using sago bark (<i>Metroxylon sagu</i>) as a new potential biosorbent S. Fauzia, H. Aziz, D. Dahlan (Indonesia), J. Namieśnik (Poland), R. Zein (Indonesia)	191
Removal of nutrients in a bioretention system using media amended with river sediment: a laboratory study Wei Zhang, Xing Zhong, Wu Che, Huichao Sun, Hailong Zhang (China)	203
Inhibition and biodegradability performance of modified polyepoxysuccinic acid as a scale inhibitor against calcium carbonate Yiyi Chen, Yuming Zhou, Qingzhao Yao, Qiuli Nan, Mingjue Zhang, Wei Sun (China)	211
Optimization of photocatalytic degradation of bisphenol A by novel Bi ₂ O ₃ -TiO ₂ nano-composites under visible light irradiation Nan Wang, Xing Li, Yanling Yang, Tingting Guo, Xiaoxuan Zhuang, Siyang Ji, Tingting Zhang, Zhiwei Zhou (China)	222
Optimization of coagulation-flocculation process for turbidity removal using response surface methodology: a study in Ilam water treatment plant, Iran S. Mazloomi, A. Zarei, H. Nourmoradi, S. Ghodsei, P. Amraei, G. Haghigat (Iran)	234
Modification of bentonite by Al/Mg-polymeric hydroxy for Cu ²⁺ , Cd ²⁺ and Pb ²⁺ removal from aqueous solutions Liheng Liu, Chuanwu Tang, Yali Peng, Fei Pan, Hua Lin, Xuehong Zhang (China), Kong Chhuon (Cambodia)	243
Synthesis of novel biochar substrate from harvested <i>Cyperus alternifolius</i> and its applicable potential for fluoride removal from river waters in artificial floating beds Chaoguang Gu, Shuang Song, Shuyi Chu, Jibo Xiao (China), R.W. Thring (China, Canada), Lingzhou Cui (China)	255
Characterization of heterotrophic iron and sulfur-oxidizing bacteria from acid mine drainage in Sarcheshmeh copper mine, Iran M. Hassanshahian, S. Toorani, R. Roghanian, G. Emtiazi (Iran), M. Genovese (Italy)	264
Modeling of adsorption isotherms of (5, 5' disodium indigo sulfonate) from aqueous solution onto activated carbon: equilibrium, thermodynamic studies, and error analysis Z. Harrache, M. Abbas, T. Aksil, M. Trari (Algeria)	273
Performance optimization of a double-effect desalination unit integrated in a steam power plant of a chemical factory F. Hafdhí, T. Khir, A. Ben Yahia, A. Ben Brahim (Tunisia)	284
Cyber physical system perspective for smart water management in a campus M.B. Abhishek, N.S.V. Shet (India)	296
Optimization and equilibrium studies of phenol removal by modified Amberlite XAD-2 polymer using statistical optimization approach F.K. Soomro, S.Q. Memon, M.Y. Khuhawar (Pakistan)	308
Isolation and characterization of <i>Acinetobacter</i> sp. JQ1004 and evaluation of its inhibitory kinetics by free ammonia Xiujie Wang, Weiqi Wang, Yang Zhang, Jing Zhang, Jun Li, Siyu Wang, Guanghui Chen (China)	316
Effects of aeration partition ratio on nitrogen removal performance and the microbial community in the A ² /O process Yi Rong, Haodong Chang, Chunlei Wu, Wushou Zhang, Pengkang Jin (China)	326
Efficient photodegradation of acid orange 7 by using ultrasound-assisted synthesis of ternary graphene nanocomposite based on TiO ₂ F. Tavakoli, A. Badiei, M. Salavati Niasari (Iran)	334

Grafting of polyamidoamine dendrimer on polyacrylonitrile nanofiber surface: synthesis and optimization of anionic dye removal process by response surface methodology method A. Almasian, M.E. Olya, N.M. Mahmoodi, E. Zarinabadi (Iran)	343
Application of novel promising low-cost biosorbents in removing cationic and anionic dyes I. Moussa, M. Ben Ticha (Tunisia)	362
The adsorption of Reactive Black 5 by nanowire-synthesized nano-manganese dioxide and nano-manganese oxyhydroxide in a natural nanoclay substrate: an adsorption kinetics and isotherm study S. Delafroz, F. Adhami (Iran)	373
Batch and column studies on the removal of methyl orange by <i>Acalypha indica</i> biomass using gravitational search algorithm as an optimization tool V. Aruna Janani, S. Saravanan, S. Rajesh, P. Sivakumar, S. Anirbid (India)	385
Study of methylene blue adsorption from solution by magnetic graphene oxide composites Mingyu Liu, Jiajia Dong, Weili Wang, Mengmeng Yang, Yifan Gu, Runping Han (China)	398
Author Index	409