



Contents

Volume 132

Impacts of natural pore-water and offshore aquifer chemistry on the operation and economics of some subsurface intakes types for SWRO plants T.M. Missimer, I. Watson, R.G. Maliva (USA), N. Ghaffour, A.A.H. Dehwah (Saudi Arabia), J. Wooschlage, M. Hegy (USA)	1
Cleaning research on reverse osmosis membranes depth-fouled by transition metal oxides and silicates in ultrasound-assisted organic acids Yong-Sheng Li, Xia-Qing Wang, Xiu-Feng Gao (China)	10
Humidification-dehumidification spray column direct contact condenser. Part II: Experimental co-current flow A. Karameldin, L.A. Shouman, D.A. Fadel (Egypt)	20
Hydrodynamic evaluation of retention time in non-steady state reactors using the N-CSTR model and numerical simulation D.J.L. Costa, J.C. de S.I. Gonçalves, M.F. Giorgetti, E.C. Pires (Brazil)	30
Adsorption–diffusion model with neural network-based equilibrium relationship E.C. Herrera-Hernández, R. Ocampo-Perez, C.G. Aguilar-Madera, J.V. Flores-Cano (Mexico)	42
Heat and mass transfer characteristics in vacuum membrane distillation for water desalination E. El-Zanati, M. Khedr, A. El-Gendi, H. Abdallah, E. Farg, E. Taha (Egypt)	52
Nanocomposite adsorbent based on β -cyclodextrin-PVP-clay for the removal of naproxen from aqueous solution: fixed-bed column and modeling studies L. Rafati, M.H. Ehrampoush, A.A. Rafati, M. Mokhtari, A.H. Mahvi (Iran)	63
Empirical modelling of total suspended solids from turbidity by polynomial neural network in North Eastern India R. Roy, M. Majumder (India)	75
Study the effects of surface coating on impeller and volute casing to improve the efficiency of the water pump K. Ulaganathan, P. Karuppuswamy (India)	79
Characteristics of nitrogen removal and sludge reduction using a multi-redox environment coupled bioreactor Yong Lei Wang, Shun Xue, Hongbo Wang, Xuexin Xu, Baozhen Liu, Wenhao Wang, Fei Xu, Junqi Jia (China)	89
W/O HIPEs templated polyaniline/polystyrene porous adsorbent for Sr^{2+} uptake from aqueous solution Yongfeng Zhu, Huifang Zhang, Xiushen Ye, Aiqin Wang (China)	99
Graphene oxide/Mg-Fe layered double hydroxide composites for highly efficient removal of heavy metal ions from aqueous solution Chunyan Liang, Xuezhen Feng, Jingang Yu, Xinyu Jiang (China)	109
Adsorption of phenol and p-chlorophenol from aqueous solutions on the template-synthesized mesoporous carbon Yuzhen Li, Ning Zhang, Zhen Li, Xiaojin Wang (China)	120
Nitrogen and sulfur co-doped carbon cryogel electrode for membrane capacitive deionization Ling Liu, Wendan Cui, Qinghan Meng (China), Guiying Tian (Germany)	134
Experimental results for fluid phase equilibria of (n-propanol + water + salt) and comparison with predictions Liuyi Yin, Hui Zhao, Guangying Chen, Yongyan Xu, Yongxing Chen, Yongbo Li (China)	144
Studying the hydrodynamics in a three-phase electroflotation column M. Mejri, I. Ksentini, M. Kotti, L. Ben Mansour (Tunisia)	150
Photocatalytic performance of $\text{SiO}_2\text{-TiO}_2$ composite via F-assisted restructure of Ti-bearing slag Jizhi Zhou, Hao Hou, Mao Lin, Yongwen Su, Yongsheng Lu, Jia Zhang, Guangren Qian (China)	157

Assessment of groundwater contamination by different interpolation methods for water resources management in the Mitidja Plain aquifer (North-Center Algeria) O. Aziez, B. Remini, M. Habi, A. Ammari (Algeria)	167
Degradation of p-nitrophenol by coupled cathodic reduction and anodic oxidation in a self-powered bioelectrochemical system and analysis of microbial community Libin Zhang, Hongling Zhang, Xinbai Jiang, Yuxi Xu, Yang Li, Yuzhe Chen, Jinyou Shen, Xiaodong Liu, Lianjun Wang (China)	179
Temporal and spatial variation of grey water (sullage) properties from commercial and residential catchments M. Asadsangabifard, Z. Ismail, Z. Yusop, Z.C. Ong, N.S. Mohd, P. Roushenas, J.H. Tam (Malaysia)	188
Application of response surface methodology to optimize the bipolar membrane electro dialysis process of preparing polyferric sulphate Xu Zhang, Qianru Chen, Yan Lv, Tingting Wang, Xiaorui Liu, Jianhua Han, Lei Zhang, Xiaolin Wang (China)	197
Separation of Cu(II) ions from synthetic solutions and wastewater by raw and calcined seashell waste M. Egerić, I. Smičiklasa, A. Mraković, M. Jović, M. Šljivić-Ivanović, J. Sokolović, M. Ristić (Serbia)	205
Massive freshwater transport: A new dimension for integrated water-wastewater management in North Cyprus H. Gökcekuş, A. Iravanian, U. Türker, G. Oğuz, S. Sözen, D. Orhon (Turkey)	215
Enhanced sunlight-driven photocatalytic performance of ZnO prepared with the assistance of urea Xinlu Liu, Jiufu Chen, Jianzhang Li, Junbo Zhong, Tao Wang (China)	226
Efficient removal of manganese ions from aqueous medium using a recyclable polymeric nanocomposite: A study of adsorption parameters and thermodynamics I.H. Alsohaimi (Saudi Arabia)	235
Removal of natural organic matter from groundwater by coagulation using prehydrolysed and non-prehydrolysed coagulants I. Krupińska (Poland)	244
Preparation of a novel two-dimensional carbon material and enhancing Pb(II) removal by tri-isopropanolamine Xin Wen, Zhanfang Cao, Jing Wang, Shuai Wang, Hong Zhong (China)	253
Effective removal of lanthanum ions from aqueous solution using rice husk: impact of experimental variables S. Zafar (Pakistan), M.I. Khan (China), M. Khraisheh (Qatar), S. Shahida, N. Khalid, M.L. Mirza (Pakistan)	263
Treatment of lipid-rich wastewater using a mixture of free or immobilized bioemulsifier and hydrolytic enzymes from indigenous bacterial isolates A.I. Adetunji, A.O. Olaniran (South Africa)	274
Effect of reactants molar ratio on photocatalytic activity of (BiO) ₂ CO ₃ prepared by a hydrothermal routine Jiufu Chen, Chaozhu Cheng, Junbo Zhong, Jianzhang Li (China)	281
Comparative assessment on the removal of ranitidine and prednisolone present in solution using graphene oxide (GO) nanoplatelets S. Bhattacharyya, P. Banerjee, S. Bhattacharya, R.K.S. Rathour, S.K. Majumder, P. Das, S. Datta (India)	287
Open ended tube like hollow bio-carbon derived from banana fibre for removal of anionic and cationic dyes S. Olivera, K. Venkatesh (India), M.S. Santosh (India, Russia), D. Leybo, D. Kuznetsov (Russia), B.K. Jayanna (India), Inamuddin, A.M. Asiri, K.A. Alamry (Saudi Arabia), H.B. Muralidhara (India)	297
Application of electro-Fenton internal circulation batch reactor for methylene blue removal with a focus on optimization by response surface method Chunwei Yang, Xiangquan Kong, Lin Zhu, Dong Wang (China)	307
Development and application of mixed cultures capable for decolorating and mineralizing azo dyes with an anaerobic-aerobic circle method J.L. Xu, C. Zheng, Y.Y. Mou, B. Xu, Yuling Zhu (China)	317
The removal of methyl violet from dye wastewater by <i>Pseudomonas</i> sp.: the effect of extra- and intracellular substances Yongxing Qian, Kefeng Zhang, Huixia Jin, Lecheng Lei, Huihui Gan, Huining Zhang (China)	329

Adsorption profiles of rhodamine B and reactive orange 16 onto pharmaceutical-based activated charcoals M.Z.M. Nasir, M.A.A. Zaini, M.A.C. Yunus (Malaysia)	340
Evaluation of amoxicillin antibiotic removal by electrocoagulation process from aqueous solutions: optimization through response surface methodology H. Alidadi, A. Ghorbanian, M. Ghorbanian, E. Rahmanzadeh, N. Nemanifar, M. Mehrabpour (Iran)	350
Author Index	359
Corrigendum to “Feasibility evaluation for the industrial reuse of wastewater with moderate chloride concentration in central Italy” published in vol. 6 (2009) pp. 160–168 (doi: 10.5004/dwt.2009.662) R. Iannelli, E. Patrizi, D. Giraldi (Italy)	360
Corrigendum to “Low diversity triggers harmful algae bloom (HAB) occurrence adjacent to desalination plants along the Red Sea” published in vol. 114 (2018) pp. 1–12 (doi: 10.5004/dwt.2018.22323) M.N. Gomaa, I. Hannachi (Saudi Arabia), W.W. Carmichael (USA), M.A. Al-Hazmi, A.M. Abouwarda, E.A.H. Mostafa, H.E. Mohamed, K.M. Sheikho (Saudi Arabia), D.J. Mulla (USA)	361
Erratum to “Degradation of isopropyl ethylthionocarbamate from aqueous solution by Fenton oxidation: RSM optimization, mechanisms, and kinetic analysis” published in vol. 130 (2018) pp. 87–97 (doi: 10.5004/dwt.2018.22846) Donghui Liu, Guohua Gu, Bichao Wu, Chongqing Wang, Xiong Chen (China)	362