

Contents

Volume 161

Multi-swarm optimizer applied in water distribution networks D.F. Surco, D.H. Macowski, J.G.L. Coral, F.A.R. Cardoso, T.P.B. Vecchi, M.A.S.S. Ravagnani (Brazil)	1
Assessment of hydrologic and environmental performances of green roof system for improving urban water circulation Jechan Jeon, Jungsun Hong, Minsu Jeon, Dongseok Shin, Lee-Hyung Kim (Korea)	14
Electrocoagulation treatment of industrial wastewater including textile dying effluent – a review S. Sen, A.K. Prajapati (India), A. Bannatwala (Australia), D. Pal (India)	21
Role of turbulent flow and gas bubbles in enhancing mass transfer in batch electrocoagulation: a brief review N.M. Niza, M.I. Emmanuel, A.M.H. Shadi, M.S.M. Yusof, M.A. Kamaruddin (Malaysia)	35
Once-through multistage flash desalination installation combined with thermal vapour compression MSF-OT/TVC A. Sellami, M. Ben Ali, M. Lakhdar, L. Kairouani (Tunisia)	48
Effects of dissolved oxygen on sludge reduction and microbial community structure in sequencing batch reactors Yufeng Xu, Long Wang, Xiaofeng Yin, Shengkun Zhang, Simin Li, Yanyan Dou (China)	56
Performance on calcium scales inhibition in the presence of a novel double-hydrophilic block terpolymer Yiyi Chen, Yuming Zhou, Qingzhao Yao, Qili Nan, Mingjue Zhang, Wei Sun (China)	66
A flux boundary scheme in the lattice Boltzmann method and its applications in the simulation of membrane desalination Wende Li, Xu Su, A. Palazzolo (USA), S. Ahmed (Qatar)	76
Effect of membrane properties and operational parameters on systems for seawater desalination using computational fluid dynamics simulations A.M. Alwatban, A.M. Alshwairekh, U.F. Alqsair, A.A. Alghafis (USA, Saudi Arabia), A. Oztekin (USA)	92
Kinetics and thermodynamics of biodiesel wastewater treatment by using ozonation process N. Pinar Tanatti, M. Mehmetbaşoğlu, İ. Ayhan Şengil, H. Aksu, E. Emin (Turkey)	108
Study on structure and properties of tubular braid-reinforced poly(lactic acid) (PLA) hollow fiber membranes Chuanmin Xiao, Changfa Xiao, Mingxing Chen, Heng Huang (China)	116
Synthesis and characterization of fly ash based geopolymeric membrane for produced water treatment A. Naveed, Noor-ul-Amin, F. Saeed (Pakistan), M. Khraisheh (Qatar), M. Al Bakri (Malaysia), S. Gul (Pakistan)	126
Removal efficiency by pressurized sand filters during the filtration process M. Mesquita, F.P. de Deus, R. Testezlaf, A.V. Diotto (Brazil)	132
Soft computing techniques in modelling of membrane filtration system: a review Z. Yusuf, N. Abdul Wahab, S. Sudin (Malaysia)	144
Decorating a metal organic framework UiO-66 layer on ceramics substrate by the seed-assisted solvothermal method for high-performance desalination Xin Ren, Xuebin Zhang, Dawei Tang, Aifeng Yang, Yi Feng (China)	156
PPO/PVA hybrid membranes for application in bipolar membrane electrodialysis Yonghui Wu, Ke Gao, Lingfei Zou, Juan Yao (China)	161
TiO ₂ /SGNs as photocatalyst for degradation of water pollutants Qinghua Mao, Dan Liu, Guoling Li, Qiaoping Wang, Chanjuan Xue, Yunshan Bai (China)	171
Deterioration of activated carbon by oxidants, contaminants and carbon regeneration Shengpin Li, Wenpeng Li, Honghan Chen (China), Song Jin (USA), Fei Liu, Xiulan Yin, Yuejun Zheng, Yi Li, Lu Li (China)	181

Colour removal from industrial wastewater using acid-modified tea-leaves, a domestic waste Shubhrajit Sarkar, Santanu Sarkar, S.S. Das, C. Bhattacharjee (India)	188
Evaluation of the groundwater quality and hydrogeochemistry characterization using multivariate statistics methods: case study of a hydrographic basin in Brazil D. Rezende, L. Nishi, P.F. Coldebella, D. Mantovani, P.F. Soares, N.C. Valim Junior, A.M.S. Vieira, R. Bergamasco (Brazil)	203
Catalytic ozonation of nitroimidazole antibiotics using nano-magnesium hydroxide as heavy-metals free catalyst Qi Sun, Guangcan Zhu, Jun Wu, Jian Lu, Zhenhua Zhang (China)	216
Synthesis of TiO ₂ /polyaniline photocatalytic nanocomposite and its effects on degradation of metronidazole in aqueous solutions under UV and visible light radiation E. Asgari, A. Esrafil, A. Jonidi Jafari, R.R. Kalantary, M. Farzadkia (Iran)	228
Evaluation of development in supercritical water oxidation technology E. Adar, M. Ince, M.S. Bilgili (Turkey)	243
The impact of barrier walls (baffle) on performance of septic tanks in domestic wastewater treatment L. Keshtgar, A. Rostami, A.A. Azimi, M. Dehghani, S. Ataolah (Iran)	254
Enhancement of oxidation capacity of ZVI/Cu ²⁺ /PMS systems by weak magnetic fields Meijing Wang, Jing Zhang, Haodi Zhao, Wanning Deng, Jinfeng Lu, Qian Ye (China)	260
Ultraviolet activated persulfate based AOP for MTBE decomposition in aqueous solution M. Ahmadian, M. Pirsahab, H. Janjani, H. Hossaini (Iran)	269
Degradation of organic pollutants using metal-doped TiO ₂ photocatalysts under visible light: a comparative study K. Umar (Malaysia), T. Parveen, M.A. Khan (India), M.N.M. Ibrahim, A. Ahmad, M. Rafatullah (Malaysia)	275
Recycling of phosphorus from aqueous solutions by pine needles S. Balbay (Turkey)	283
Removal of sulfate from aqueous solution by magnetic chitosan microspheres Zishun Tian, Tao Feng, Guodong Yang, Tingting Zhao, Li Wang (China)	293
Comparison of modified boehmite nanoplatelets and nanowires for dye removal from aqueous solution M. Kamari, S. Shafiee, F. Salimi, C. Karami (Iran)	304
Performance evaluation of adsorptive removal of Ni(II) by treated waste granular-activated carbon and new granular-activated carbon ZiJie Wang, Zheng Wang, Kai Xu, Lei Chen, ZiZeng Lin, YaLi Liu (China)	315
Pb(II) removal from aqueous solution by cold KOH activated biochar of camphor leaves: isotherms, kinetics and thermodynamics Cui Li, Hui Wang, Yingshuang Zhang (China)	327
Study of filter height effect on removal efficiency of Cd, Cu, Pb and Zn from contaminated water by slow sand filtration Y. Barkouch, K. Flata, A.A. Melloul, M.E. Khadiri (Morocco), A. Pineau (France)	337
Synthesis and application of iron/copper bimetallic nanoparticles doped natural zeolite composite coupled with ultrasound for removal of arsenic (III) from aqueous solutions A. Seid-Mohammadi, G. Asgari, A. Rahmani, T. Madrakeyan, A. Karami (Iran)	343
Photocatalytic degradation of aspirin from aqueous solutions using the UV/ZnO process: modelling, analysis and optimization by response surface methodology (RSM) P. Karimi, M.M. Baneshi, M. Malakootian (Iran)	354
Adsorption of Basic Violet 16 dye from aqueous solution onto mucilaginous seeds of <i>Salvia sclarea</i> : kinetics and isotherms studies S. Afshin, Y. Rashtbari, M. Shirmardi, M. Vosoughi, A. Hamzehzadeh (Iran)	365
<i>Pleurotus ostreatus</i> as a species with potentially high effectiveness in the removal of synthetic dyes belonging to different classes W. Przystaś, E. Zabłocka-Godlewska, E. Grabińska-Sota (Poland)	376
Circulating fluidized bed fly ash-derived mesoporous silica adsorbent for the adsorptive removal of malachite green Ning Yuan, Xinling Zhang, Licheng Sun, Shaoqing Liu, Dongmin Wang, Tao Zhu (China)	387
Author Index	398

Corrigendum to “Experimental study of modified dual slope hybrid photovoltaic (PV/T) solar thermal still” published in vol. 156 (2019) pp. 168–176 (doi:10.5004/dwt.2019.24113) R.U. Khan, B. Bhattacharyya, G. Singh (India)	399
Corrigendum to “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” published in vol. 147 (2019) pp. 373–384 (doi:10.5004/dwt.2019.23677) S. Delafrouz, F. Adhami (Iran)	400