

Contents

Volume 187

Assessing of water quality and sedimentation problems in Lata Sungai Limau, Malaysia M.K.A. Kamarudin, N. Abd Wahab, M.A. Abu Samah, A.S.M. Saudi, A. Ismail, M.E. Toriman, F.M. Hamzah, M.H.M. Saad (Malaysia), L.I. Hoe (Vietnam), S.N.A.M. Bati (Malaysia)	1
Potential of field turbidity measurements for computation of total suspended solid in Tasik Kenyir, Terengganu, Malaysia M.K.A. Kamarudin, N. Abd Wahab, M.A. Abu Samah, N.B. Baharim, R. Mostapa, R. Umar, K.N.A. Maulud, M.H. Arifin, M.H.M. Saad, S.N.A.M. Bati (Malaysia)	11
Membrane retention potential of <i>Tachylepus gigas</i> during early embryogenesis B.R. Nelson, A. John, J.H. Zhong, K.C.A. Jalal (Malaysia)	17
Fabrication of textile wastewater treatment block unit using electrochemical method Tran Le Hoang, Tran Le Luu (Vietnam)	24
Efficient water-saving irrigation based on regional irrigation schedule optimisation Congying Han, Baozhong Zhang, Yu Liu (China)	30
Corrosion inhibition performance of a metallic zinc corrosion inhibitor in chemical cleaning Changshan Huang, Jinying Wu, Ming Ding, Min Chen, Huiwu Xu, Mian Xue, Yushan Cheng, Min Zhang (China)	42
Safety assessment of piping induced by crossing pipeline engineering Jie Yang, Ming Yue, Xinwei Song, Dongmei Shen, Luxiu Chai, Wanfen Wang (China)	47
The assessment of ERA-interim wave data in the China Sea Hongyuan Shi, Jiacheng Sun, Zaijin You, Qingjie Li, Delei Li, Xuefeng Cao (China)	56
Comprehensive evaluation of water resources carrying capacity in ecological irrigation districts based on fuzzy set pair analysis Xiuyu Zhang, Xuefang Du, Yanbin Li (China)	63
Collaborative optimization of duration-cost-quality for water conservancy project based on relay chain network Xiangtian Nie, Tianyu Fan, Bo Wang, Shuai Wang (China)	70
Economic impact of investment in water conservancy construction in Hubei Province Juan Yuan (China)	79
Phytoremediation efficiencies of <i>Spirodela polyrhiza</i> and <i>Brassica oleracea</i> in removing nutrients from treated sewage effluent N.K. Mun (Malaysia, Japan), R.M.S.R. Mohamed, M.S. Miswan, A. Al-Gheethi, A.H.M. Kassim (Malaysia), Y. Mishima (Japan)	87
Modified nanofiltration membrane treatment of saline water: a review A.F.M. Alsayed (China), M.A. Ashraf (China, Malaysia)	93
Practical research on treatment and recycling of automotive industrial wastewater Chuan Sun, Yulin Ma, Shixiong Xin, Lian Xie, Jianyu Wang, Jianxin Chen (China)	106
Measurement method of regional water resources carrying capacity based on ecological footprint Dachuan Zheng, Zhongyan Lin, Feimei Wu (China)	114
Influence of landfill leachate on water environmental quality of urban rivers Ming Yang, Haoran Xu (China)	123
Multi-parameter water quality testing model for marine environmental pollution emergency response Ye Chen, Qingyun Ma, Chao Liu, Qiang Shu (China)	133
Geological survey and drilling technology of karst land Jingyuan Zhao, Ning Li, Fengyin Liu (China)	144
Seepage calculation method of loose rock mass under mining unloading Fengjun Zhou, Jianhua Zhang (China)	154
Storm water management in country parks in complex orogenic belts Bohang Sun, Yan Liu (China)	163

Robustness of water hammer protection of different formulas of frictional head loss Zhiling Zhao, Jinliang Gao (China)	172
Characteristic equation development for double slope solar distiller unit augmented with N identical parabolic concentrator integrated evacuated tubular collectors S.K. Sharma, A. Mallick, S.K. Gupta, N. Kumar, D.B. Singh, G.N. Tiwari (India)	178
Experimental measures on solar still applying internal cooling coil for optimum productivity under Riyadh Province ambient conditions A. Alshahrani, A. Alabdulkarem, M. Ali (Saudi Arabia)	195
Potential of agricultural and agroindustrial wastes as adsorbent materials of toxic heavy metals: a review A.P. Schiller, A.C. Gonçalves Jr., A.L. Braccini (Brazil), D. Schwantes (Chile), M.A. Campagnolo, E. Conradi Jr., J. Zimmermann (Brazil)	203
Native clay, MnFe ₂ O ₄ /clay composite and bio-composite efficiency for the removal of synthetic dye from synthetic solution: column versus batch adsorption studies S. Nausheen, H.N. Bhatti, K. Arif, J. Nisar, M. Iqbal (Pakistan)	219
Impregnation of liquid natural rubber (LNR) foam with activated carbon for enhancing oil removal from water A.M. Lazim, M. Hilman, S. Saroni, N. Muslihuddin, A. Kamil, A.A. Rahman, A. Hafidz Yusoff, M. Mohamed, N.H.M. Kaus, E. Kalkornsurapranee (Malaysia)	232
Prospects for improving the performance of SWRO plants by implementing advanced NF/RO techniques: Part-II A.Z. Abdellatif, A.S. Al-Amoudi, A.M. Farooque, T.N. Green, Q.A. Aldwes (Saudi Arabia)	241
Photocatalytic degradation of bagasse pulp wastewater with La-TiO ₂ /Al ₂ O ₃ as a catalyst Lihuan Mo, Peiqi Lyu, Zhen Yang, Jie Gong, Kai Liu, Jun Li (China)	256
Stabilization of phenol trapped by agricultural waste: a study of the influence of ambient temperature on the adsorbed phenol M.H. Alhassani, S.M. Al-Jubouri, H.A. Al-Jendeel (Iraq)	266
Sorption studies on removal of Cd ²⁺ from the aqueous solution using fruit-peels of <i>Litchi chinensis</i> Sonn. A. Rauf, T. Mahmud, M. Ashraf, R. Rehman, S. Basharat (Pakistan)	277
POSS/PDMS MMMs with reversal trade-off effect: characterization and enhanced permeation flux Xia Zhan, Teng Gao, Juan Lu, Jihui Liu, Mengyan Wang, Jiding Li (China)	287
Fabrication and characterization of silver nanostructures using spherical silver nanoparticles released from <i>Murraya koenigii</i> leaf extract S.S. Habtoor (Yemen, Malaysia), M.A. Agam, A. Al-Gheethi, R.M.S.R. Mohamed (Malaysia)	301
Appraisal of groundwater alarming zones in district Okara-Pakistan using dimension reduction and Kriging procedures N. Idrees, S. Kamal, M. Ahmad (Pakistan)	311
Mechanism for microwave degradation of Methylene Blue and Arsenazo(III) dyes using graphene oxide synthesized from date pits N.S. Awwad, A.Y. Alshahrani (Saudi Arabia), E.E.S. Massoud (Saudi Arabia, Egypt), A. Bouzidi (Tunisia, Saudi Arabia), M.S.A. Hussein (Egypt), I.S. Yahia (Egypt, Saudi Arabia)	321
Neodymium pertraction through sunflower oil-based emulsion liquid membrane: stability and mass transfer investigation M. Raji, H. Abolghasemi, J. Safdari, P. Davoodi-Nasab (Iran)	333
Adsorption performances and antimicrobial activity of the nanosilver modified montmorillonite clay M. Stevanović, Z.J. Bajić, Z.S. Veličković, R.M. Karkalić, L. Pecić (Serbia), P. Otřísal (Czech Republic), A.D. Marinković (Serbia)	345
Self-cleaning and antifouling polyvinylidene difluoride hollow fiber membrane enabled by visible light irradiation for water treatment Peng Wan (USA, China), Tiantian Wu, Shuyu Shi, Qianliang Zhao (China), Baolin Deng (China, USA)	370
Adsorption of Congo Red from solution by iron doped PVA-chitosan composite film Kang Wen, Yi Li, Shuxing Zhang, Xiaoting Zhang, Runping Han (China)	378
Comparison of oleaginous microalgal growth and lipid accumulation in saline-alkali leachate: a case from Shandong Province Xiaoya Liu, Yu Hong, Yitian He, Wenping Gu (China)	390

FeVO ₄ nanoparticles synthesis, characterization and photocatalytic activity evaluation for the degradation of 2-chlorophenol A. Shafique, I. A. Bhatti, A. Ashar, M. Mohsin, S.A. Ahmad, J. Nisar, T. Javed, M. Iqbal (Pakistan)	399
Simultaneous removal of binary cationic dyes from wastewater by nanoscale zero-valent iron particles supported on multi-walled carbon nanotubes/attapulgite Yajuan Zhang, Hui Xu, Jin Tang, Lei Tian, Minzhang Chen, Weiguo Tian, Guojun Gou, Yong Chen (China)	410
Author Index	427