



Contents

Volume 270

Factorial design of experiment for modeling solar still parameters M. Al-Abed Allah, M. Abu Abbas, M. Maqableh (Jordan)	1
CMC and cross-linking with PEI to enhance hydrophilicity and antifouling property of PTFE flat membrane Chengcai Li, Yilin Luo, Haoyin Zhang, Qiqi Liao, Dan Xu, Jieqin Wang, Guojin Liu, Hailin Zhu, Yuhai Guo (China)	12
Treatment of flue gas desulfurization wastewater by bipolar membrane electro dialysis and its optimization by response surface methodology Ruiyuan Zhang, Yu Song, Yunpeng Li, Yaoqi Yang, Xuhui Sun, Yan Li (China)	25
Experimental study of different shape droplet oblique impact on a thin liquid film Minle Bao, Feng Wang, Luyuan Gong, Yali Guo, Shengqiang Shen (China)	35
The effectiveness of rosehip seeds powder as a plant-based natural coagulant for sustainable treatment of steel industries wastewater M.S.S. Abujazar (Palestinian Authority, Turkey), S.U. Karaağaç (Turkey), S.S. Abu Amr (Oman), S. Fatihah, M.J.K. Bashir (Malaysia), M.Y.D. Alazaiza, E. Ibrahim (Oman)	44
Nitrate removal by nanofiltration powered by a hybrid system of renewable energies (solar and wind): technico-economic assessment H. Jalté, S. El-Ghizel, M. Tahaikt, A. Elmidaoui, M. Taky (Morocco)	52
Effect of particle size distribution of fly ash on compressive strength, pore size and porosity of geopolymeric membrane for car wash water treatment A. Naveed, M. Arif, Z.U. Khan, S. Sultana, M. Humayun, M. Asif, M. Sadiq, M. Zeeshan Ahad, A. Ilyas, Z. Ullah (Pakistan)	60
Removal of neodymium(III) from wastewater using microtubule ultrafiltration chemical reactor with organic phosphate Liang Pei, Chunhui Wang, Liming Wang (China)	70
An iron rotating disk for the elimination of hexavalent chromium ion from industrial wastewaters: putting it to work M.S.E.-A. Al-Waqfi, Z. Al-Qodah (Jordan)	83
Evaluating adsorptive potential of low-cost adsorbents and biopolymer composite for heavy metals removal G. Hussain, I. Jabbar, M.U. Farooq, M. Anis, M.I. Jalees (Pakistan)	92
Removal of Cr(VI) from aqueous solutions using polyamidoamine dendrimer-modified biochar Jie Li, Jiangtao He, Jianhong Huang, Qun Zhao, Yingjie Li, Senlin Tian (China)	111
Potential application of <i>Combretum indicum</i> biomass for the efficient biosorption of Ni(II) and Cu(II) from aqueous medium A. Tahir, M. Salman (Pakistan)	127
Utilization of <i>Punica granatum</i> carpellary membrane for removal of arsenic trivalent ions from aqueous medium M. Nayyar, R. Kumar, J. Chawla (India)	142
Biosorption of Cu(II) ions using sericin cross-linked with polyethylene glycol-diglycidyl ether G.S. Marques, G.G. Dusi, F. Drago, M.L. Gimenes, V.R. da Silva (Brazil)	153
Solar photocatalytic degradation of amoxicillin using Ni:TiO ₂ nanocatalyst stabilized on ceramic plates M. Safari, R. Rezaee, R. Darvishi Cheshmeh Soltani, M. Ghorbani, M. Faridan (Iran), K. Wantala (Thailand), Shivaraju H.P. (India), B. Shahmoradi (Iran)	163
Synthesis of polyethylenimine modified sugarcane bagasse cellulose and its competitive adsorption of Pb ²⁺ , Cu ²⁺ and Zn ²⁺ from aqueous solutions Wenyan Jiang, Yihao Xing, Leixing Mo, Jie Liao, Wei Chen, Haijun Wang, Tianshun Wang (China)	172

Ammoniacal nitrogen, chemical oxygen demand, and color reduction in rubber processing industry effluent using zeolite A. Detho (Malaysia), A.H. Memon (Pakistan), A.F. Alali, A.I. Almohana, S.F. Almojil (Saudi Arabia), A.A. Memon (Pakistan), M.A. Rosli, M.F.M. Din (Malaysia)	185
Electrocoagulation as an efficient technology for nitrate removal from water F.K.J. Rabah, L.I. Qrenawi, T.M.S. Tabash (Palestinian Authority)	194
Assessment of health safety related to inhalation of volatile organic compounds present in fumes of water delivered through the public distribution system E. Wysowska, A. Kicińska (Poland)	206
Visible light active, magnetically $\text{Fe}_3\text{O}_4@ \text{SiO}_2/\text{TiO}_2\text{-Fe}_2\text{O}_3$ nanomaterial as photocatalyst for degraded phenol Yuan Bai, Rui Ma, Xinwen Wan, Zongxian Jing, Jiayi Zhang (China)	217
Thermally activated laterite soil as an adsorbent for phosphate and fluoride removal from contaminated water N.U.S. Dissanayake, P.G.H. Pupulewatte, D.T. Jayawardana (Sri Lanka)	227
Preparation of nanoparticles-assembled Cu_2O microspheres by ultrasound-assisted polyol process and their adsorption performance Yonggang Peng, Yongqiang Feng, Yongxin Tao, Huaixin Wan (China)	236
Polyaniline/ZnO composites prepared via a green route for sunlight-driven photocatalytic efficient decolorization of methyl orange dye Y. Kadri, E. Srasra, I. Bekri-Abess (Tunisia)	245
Adsorptive removal of cationic dyes (methylene blue and crystal violet) from aqueous solutions using anionic polyacrylamide-based monolith A.A. Al-Massaedh, F.I. Khalili, A. Al Shra'ah (Jordan)	260
Synthesis of chitosan-glutaraldehyde/activated carbon composite for methylene blue adsorption: optimization and mechanisms Wenqian Cao, Dedong Wu, Pengfei Xiao (China)	275
The relation between structural, optical, and electronic properties of composite CuO/ZnO in supporting photocatalytic performance R. Rahmat, H. Heryanto, S. Ilyas, A.N. Fahri, I. Mutmainna, M.H. Rahmi, D. Tahir (Indonesia)	289
Groundwater contamination transport through modeling approach: a case study in Kasur, Pakistan H. Rasheed (Pakistan), J. Takemura (Japan), M.A. Ashraf, M. Faheem (China)	302
Development and performance assessment of a castor-based vertical flow constructed wetland system for utilization of landfill leachate P. Parthiban, S. Malathi, B. Manjubarkavi, S. Sivaranjani, A. Das (India)	313
Corrigendum to "Enhancing accuracy of membrane fouling prediction using hybrid machine learning models" [<i>Desalination and Water Treatment</i> , Volume 146, April 2019, pp. 22–28, doi:10.5004/dwt.2019.23444] Seung Ji Lim, Young Mi Kim, Hosik Park, Seojin Ki (Korea), Kwanho Jeong (Singapore), Jangwon Seo, Sung Ho Chae, Joon Ha Kim (Korea)	320
Corrigendum to "Evaluating the performance of extended and unscented Kalman filters in the reverse osmosis process" [<i>Desalination and Water Treatment</i> , Volume 163, September 2019, pp. 118–124, doi:10.5004/dwt.2019.24408] Seung Ji Lim, Seo Jin Ki, Jangwon Seo, Sung Ho Chae, Young Geun Lee (Korea), Kwanho Jeong (Singapore), Jungsu Park, Joon Ha Kim (Korea)	321
Corrigendum to "Improvement of reverse osmosis process stability in internally staged design under seasonal variation of feed water" [<i>Desalination and Water Treatment</i> , Volume 180, March 2020, pp. 95-103, doi:10.5004/dwt.2019.25165] Seung Ji Lim (Korea), Kwanho Jeong (Singapore), Yong-joo Cho, Jungsu Park, Taekuk Lee, Seo Jin Ki, Joon Ha Kim (Korea)	322
Author Index	323