



## Contents Volume 304

Experimental investigation for performance enhancement of single slope solar still using nanofluids under winter conditions R. Sahu, A.C. Tiwari (India) .....	1
Investigation of silica gel performance on potable water harvesting from ambient air using a rotatable apparatus with a solar tracking system M.O. Alhurmuzi, M. Danişmaz (Turkey), O.A. Zainal (Iraq) .....	12
Study on multi-effect mechanical vapor recompression systems used for the concentration of industrial high salt wastewater Jiubing Shen, Niugao Tan, Lele Jiang, Wenbing Wei, Yang Chen, Junjie Cao (China) .....	25
Development of membrane separation technology and membrane-based bioreactor in wastewater treatment: conventional membrane and dynamic membrane Lucheng Li, Ming Ye, Xiaosheng Gan, Ting Xiao, Zehua Zhu (China) .....	36
Pre-oxidation coupled with ceramic membrane filtration for natural organic matter removal and membrane fouling mitigation during surface water treatment Keying Li, Yong Wei, Ming Kong, Ziyin Guo, Zhengbo Luo, Xianjian Li, Rongkai Shi (China) .....	47
Wastewater reuse through soil aquifer treatment: regulations and guideline for feasibility assessment Z. Chakir, B. Lekhlif, M. Sinan, A. Ait El Maki (Morocco) .....	60
Improving the removal efficiency of chemical oxygen demand and total organic carbon from industrial wastewater by magnetic forced vortex and ozone L.H. Abdul-Raheem, M.Sh. Jaafar, A.C. Khraibet, N.J. Imran (Iraq) .....	81
Removal of guaifenesin and amprolium drugs from wastewater using ecofriendly low-cost biopolymer: adsorption isotherms, kinetics models and thermodynamic studies A. Mohamed (Saudi Arabia, Egypt), H.A. Hassanin (Egypt), S. Ali (Saudi Arabia, Egypt) .....	86
Wet coffee processing wastewater treatment by using an integrated constructed wetland D.B. Lemma, W.A. Debebe (Ethiopia) .....	97
Prediction of climate change on surface water using NARX neural network model: a case study on Ghezel Ozan River, Northwest, Iran S. Mohammadi, S. Karimi, A.A. Mohammadi, S. Moghanlo, M. Alavinejad, H. Najafi Saleh, H. Mohammadi, M. Nezam Haeshmi (Iran), O. Kisi (Germany, Georgia) .....	112
Atenolol degradation using hybrid processes of ultraviolet/peroxymonosulfate/microwave: modeling and optimization with artificial neural network and PSO algorithm M. Razaghi, B. Dehdashti, F. Mohammadi, Z. Moradmand, N. Zahedi, M.M. Amin (Iran) .....	129
Boron-containing compounds as a new candidate for supercapacitor electrode: simplified synthesis and structural identification properties M. Akdemir, H. Demir Kivrak, A. Kilic, L. Beyzaskal, M. Kaya, S. Horoz (Turkey) .....	140
Study on the adsorption performance of steel slag and manganese slag composite materials for lead Canhua Li, Shuxian Wei, Zimu Li, Minghui Li, Yuhong Zha (China) .....	150
Enhanced denitrification efficiency with immobilized bacteria in microbial fuel cell Lian-gang Hou, Qi Sun, Zheng-wei Pan, Zhi-tao Sun, Jun Li (China) .....	162
Response surface methodology for adsorption of propylparaben using zeolitic imidazolate-67 modified by Fe <sub>3</sub> O <sub>4</sub> nanoparticles from aqueous solutions M. Pourmohammad, A. Ghadi, A. Aghababai Beni (Iran) .....	169
Study of landfill leachate coagulation using hybrid coagulant of copperas/lime N.A. Mohamad, N.A.A. Abd Rasid, N. Rasit, A.A.A.R. Azmi, M.H.C. Harun, W.M.H. Wan Yussof, N.H.H. Hairon, H.H. Wan Jusoh, H. Juahir, S. Hamzah (Malaysia) .....	181
Research progress of in-situ reduction technology of sludge Jiating Wu, Shaomin Liu (China) .....	190

Experimental study on the reduction of sludge by a process of the synergistic effect of swirl cutting and ozone oxidation Bo Zhang, Pengfei Ni, Xin Pu, Xiaohong Xu, Chundu Wu (China) .....	200
Improved electrochemical recovery of metallic powder from acidic chloride-citrate electrolyte Bingbing Li, Yi Hu, Mo Huang (China) .....	210
Effect of NaCl on the decolorization and kinetic performance in the chitosan-gelatin composite copper polymer/H <sub>2</sub> O <sub>2</sub> system Jie Wang, Xueyan Wang (China) .....	219
Adsorption performance of antibiotics using magnetized–nitrated semicarbonized fiber loaded with metal ions Wen-bin Li, Jiang-ming Ou-yang, Ke Xie, Hong-yan Deng, Yin-fei Wang (China), T. Abbas (USA), Bixia Wang (China) .....	228
Remove safranin dye from the aqueous solution using ZnO stabilized on zeolite in the presence of ultraviolet light D. Naghipour, K. Taghavi, D. Hasanzadeh, S.D. Ashrafi, M. Moslemzadeh (Iran) .....	238
Efficient removal of Red Congo by adsorption assisted by heterogeneous Fenton-like degradation using MgAl-CO <sub>3</sub> in neutral pH H. Atout, Z. Manaa, D. Chebli, A. Bouguettoucha, B. Meziani (Algeria) .....	247
Corrigendum to "Removal of reactive azo dye using platinum-coated titanium electrodes with the electro-oxidation process" published in volume 218, April 2021, pp. 436–443 G.D. Değermenci (Turkey) .....	257
Author Index .....	259