



## Contents Volume 297

Comparison of high-pressure and low-pressure fouling detectors at a full-scale seawater reverse osmosis desalination plant Jshan Wu, D. Tanuwidjaja, G.R. Guillen, C. Marambio-Jones, R. Cheng, A. Edalat, E.M.V. Hoek (USA) .....	1
Modification of polyvinylidene fluoride and polysulfone flat sheet membranes using perovskite nanoparticles for treatment of humic acid in a submerged membrane system A. Sadeghiazar Sharabiani, S.J. Peighambaroust, A. Niaei, P. Mohammadzadeh Pakdel (Iran), Y. Yildirim, A.K. Topaloglu (Turkey) .....	17
Synthesis and application of layered double hydroxides as a superior adsorbent for the removal of hazardous contaminants from aqueous solutions: a comprehensive review F.A. Alnasrawi, A.A. Mohammed, T.J. Al-Musawi (Iraq) .....	26
Preparation of activated carbon-based composite adsorbent and its efficient adsorption of Cr(VI) from aqueous solution Yarui Song, Zhaoxi Du, Kaisheng Wang, Fajun Zhao (China) .....	75
Kinetics and equilibrium study of adsorptive removal of cadmium ions from aqueous solutions by utilizing lime peel as a biosorbent M.K. Saberian, A. Kargari, M. Soleimani, M.A. Alaei Shahmirzadi, E. Mofarrah (Iran) .....	88
Removal of lead ions and bisphenol S using $\beta$ -cyclodextrin modified peanut shell from solution Yang Liu, Yuanyuan Wang, Jie Ma, Runping Han (China) .....	102
Development process of graphene field for photocatalytic and antibacterial applications Jiahe Song, Jingjing Zhang, Kun Zheng, Zhihua Xua, Kezhen Qi (China) .....	117
Inhibiting the growth of microbes on the air-cathode in the microbial fuel cell by using an antimicrobial agent M.J. Allawati, T.A. Al Jadili, M.Y.D. Alazaiza (Oman), R.A. Alenezi (Kuwait), D.E. Nassani (Turkey) .....	131
Remote sensing image analysis and cyanobacterial bloom prediction method based on ACL3D-Pix2Pix Li Wang, Qianhui Tang, Wenhao Li, Xiaoyi Wang, Haiyan Zhang, Jiping Xu, Zhiyao Zhao, Jiabin Yu, Huiyan Zhang, Qian Sun, Yuting Bai (China) .....	138
Effect of preparation methods on phosphate-removal of lanthanum-modified bentonite Yuqian Cao, Yu Wang, Xiuzheng Yue, Changyuan Yu, Yunfang Liu (China) .....	160
Comparison of <i>Milletia pinnata</i> and <i>Justica adhatoda</i> as eco-sustainable extraction of silver nanoparticles for sewage water treatment S. Sharmila, A. Sirajunnisa, S. Sundaranayagi (India) .....	169
Effect of COD/N ratio on the Feammox process in the treatment of fish processing wastewater D.T. Trong, C.L. Phuong (Vietnam) .....	175
Biodegradation of cellulose in electric field-assisted biodegradation process: role of low-voltage electric field Bo Zhang, Zhangxing Xu, De Qing Yang Zong, Defang Ma, Yan Wang (China) .....	181
Polyaniline/banana peel composite: an eco-friendly adsorbent for removal of dihydrogen phosphate from groundwater A.A. Alotaibi, A.F. Alharbi (Saudi Arabia), A.M.H. Ibrahim, S.M. Abdel Azeem (Saudi Arabia, Egypt) .....	189
Characterization of urban wastewater and elimination of their pollution using clay-materials in the M'zab Region, Algeria Z. Babaamer, F. Boulaghmen, A. Iddou, K. Moulai (Algeria) .....	208
Comparison of response surface method and artificial neural network in predicting fluoride removal by nanofiltration F.Z. Addar, M. Farah, M. Belfaquir, M. Tahaikt, M. Taky, A. Elmidaoui (Morocco) .....	215

Block level assessment of groundwater potential zones using hydrogeological and remote sensing and GIS data's: a scientific approach to prevent water scarcity problems S.M. Balasubramanian, A.S. Bhaskar, V. Sivakumar (India) .....	227
Taguchi approach for electrocoagulation for treatment of methyl red dye from textile wastewater by using different connection electrodes M.S. Ibrahim, S.H. Abbas (Iraq), A. Al-Shami (Yemen) .....	240
Electro-Fenton/peracetic acid process for the removal of Rhodamine B dye from aqueous media: effect of operational parameters and optimization with Taguchi method A. Rahmani, R. Azami Gilani, A. Dargahi, J. Faradmal (Iran) .....	254
Author Index .....	264