

 **Contents**

Volume 56 Issue 2

Application of airlift ceramic ultrafiltration membrane ozonation reactor in the degradation of humic acids Haowen Mei, Hui Xu (Nanjing), Hongke Zhang (Yantai), Wenheng Jing and Weihong Xing (Nanjing, China)	285
Characteristics and recycling effect of solubilized organics derived from drinking water treatment sludge using ultrasound Zhiwei Zhou, Yanling Yang, Xing Li, Yongwang Liu and Xuan Guo (Beijing, China)	295
Integrated membranes for the recovery and concentration of antioxidant from olive mill wastewater H.I. Abdel-Shafy (Cairo, Egypt), G. Schories (Bremerhaven, Germany), M.S. Mohamed-Mansour (Cairo, Egypt) and V. Bordei (Bremerhaven, Germany)	305
Effect of water quality parameters on solar water disinfection: a statistical experiment design approach M.M. Ahammed, S. Dave and A.T. Nair (Surat, India)	315
Performance of granular dead anaerobic sludge as permeable reactive barrier for containment of lead from contaminated groundwater A.H. Sulaymon, A.A.H. Faisal and Z.T. Abd Ali (Baghdad, Iraq)	327
Microstructural characteristics and adsorption potential of a zeolitic tuff-metakaolin geopolymer M. Alshaaer (Amman, Jordan and Alkharj, Saudi Arabia), D. Zaharaki and K. Komnitsas (Chania, Greece)	338
Solar photocatalytic decolorization of azo dyes in water and textile wastewater on N-(Cr ³⁺ , Fe ³⁺) doped-TiO ₂ nanoparticle films: optimization of some operational parameters Lingzhi Sun (Yancheng), Chengjun Sun (Jiaxing) and Xianxiang Sun (Changzhou, China)	346
Adsorption of Cr(VI) from aqueous solution onto short-chain polyaniline/palygorskite composites Jiahong Wang, Xiaojing Han (Xi'an), Yanfen Ji (Jiangsu) and Hongrui Ma (Xi'an, China)	356
Modification of polyethersulfone using sericin and polyvinylpyrrolidone for cadmium ion removal by polyelectrolyte-enhanced ultrafiltration Y. Lukka Thuyavan, N. Anantharaman, G. Arthanareeswaran (Tiruchirappalli, India) and A.F. Ismail (Skudai, Malaysia)	366
Sorption separation of cadmium from aqueous solutions by alginite material: kinetic and equilibrium study V. Frišták, M. Pipíška, M. Nováková, J. Lesný and A. Packová (Trnava, Slovak Republic)	379
Development of a four-layered ANN for simulation of an electrochemical water treatment process H.R. Vahidian (Tehran), A.R. Soleymani (Malayer) and J.B. Parsa (Hamadan, Iran)	388
Application of radial basis function neural network for removal of copper using an emulsion liquid membrane process assisted by ultrasound N. Messikh, M. Chiha, F. Ahmedchekkat (Skikda, Algeria) and A. Al Bsoul (Irbid, Jordan)	399
Studies on removal of lead(II) by alginate immobilized bromelain (AIB) S. Chatterjee, S. Dutta, M. Mukherjee (Durgapur), P. Ray and S. Basu (Kolkata, India)	409
Fabrication of Ag/halloysite nanotubes/Fe ₃ O ₄ nanocatalyst and their catalytic performance in 4-nitrophenol reduction Mengying Gan, Yongqiang Huang, Yunlei Zhang, Jianming Pan, Weidong Shi and Yongsheng Yan (Zhenjiang, China)	425
Application of a three-stage remediation process to cleanup petroleum-hydrocarbon contaminated sediments Z.H. Yang, Y.T. Sheu, C.D. Dong, C.W. Chen and C.M. Kao (Kaohsiung, Taiwan)	435
Recovery of polyalkylene glycol from silicon cutting waste using centrifugation Tzu-Hsuan Tsai and Yu-Pei Shih (Taipei, Taiwan)	443
Removal of dibutyl phthalate (DBP) from aqueous solution by adsorption using vanillin-modified chitosan beads (CTSV) Haiyan Li, Ping Wang and Wen Liu (Nanjing, China)	452
Adsorption of F on bio-filter sorbent: kinetics, equilibrium, and thermodynamic study M. Yadav (Jaipur), N.K. Singh (Roorkee), U. Brighu and S. Mathur (Jaipur, India)	463

Adsorption of tannic acid from aqueous solution by aminopropyl functioned SBA-15 Jingliang Liu, Huan Chen, Zhaoyi Xu, Shourong Zheng and Mengwei Xue (Nanjing, China)	475
Assessing the relative merits of mineralization and coagulation by Fenton process using humic acid of different molecular weights Hsing Yuan Yen (Kaohsiung, Taiwan)	485
Ultrasound-assisted Fenton's treatment of Reactive Black 5 dye: effect of system parameters, kinetics and mechanism S. Saravanan and T. Sivasankar (Tiruchirappalli, India)	492
Assessment on linear and non-linear analysis for the estimation of pseudo-second-order kinetic parameters for removal of dye using graphene nanosheet P. Das, P. Banerjee (Kolkata), R. Rathour (Durgapur) and R. Misra (Delhi, India)	502
Hyper-production of manganese peroxidase by mutant <i>Pleurotus ostreatus</i> MTCC 142 and its applications in biodegradation of textile azo dyes M. Arunkumar and S.H. Sheikh Abdulla (Kumbakonam, India)	509
Scavenging malachite green dye from aqueous solutions using pomelo (<i>Citrus grandis</i>) peels: kinetic, equilibrium and thermodynamic studies O.S. Bello (Ogbomoso, Nigeria and Nibong Tebal, Malaysia), M.A. Ahmad (Nibong Tebal, Malaysia) and B. Semire (Ogbomoso, Nigeria)	521
Successful scale-up performance of a novel papaya-clay combo adsorbent: up-flow adsorption of a basic dye E.I. Unuabonah (Mowe, Nigeria), A.O. Adedapo (Ibadan, Nigeria), C.O. Nnamdi, A. Adewuyi, M.O. Omorogie (Mowe, Nigeria), K.O. Adebowale, B.I. Olu-Owolabi (Ibadan, Nigeria), A.E. Ofomaja (Vanderbijlpark, South Africa) and A. Taubert (Potsdam, Germany)	536
Adsorption of sulfamonomethoxine antibiotics to cucurbit[6]uril-anchored silica gel: effect of aqueous solution chemistry Tao Jin, Yun Liu, Yuan-hua Dong, De-qiang Chen and Hong-tao Qiao (Nanjing, China)	552
Author Index	564