

Contents

Volume 107

Evaluation of the separation performance of thin film composite forward osmosis membrane using sodium chloride draw solution for Arabian Gulf seawater desalination M. Ahmed, B. Garudachari, K.A. Rajesha, J. Thomas (Kuwait)	1
Fouling characterization of TFC forward osmosis membrane in a novel dynamic sludge anaerobic digestion reactor Jing Zhao, Shuang Pan, QianQian Tu, Hongtao Zhu, Xiaole Gao, Panyue Zhang (China)	10
Experimental evaluation of the effect of air velocity in hybrid solar distiller K. Hidouria, A. Benhmida, B. Chouachi (Tunisia)	20
Experimental study on productivity intensification of HDH desalination unit utilizing two-stage dehumidification W.M. El-Maghly, A.E. Tourab, A.H. Hegazy, M.A. Teamah, A.A. Hanafy (Egypt)	28
Evaluation of rate constant models on the performance of the integrated solar and hydraulic jump enhanced waste stabilization pond using quantitative statistics approach N.M. Ogarekpe (Nigeria)	41
Pinch point analysis of heat pump air-heating electroplating wastewater treatment system based on thermodynamics Jing Yu, Sumin Jin, Liang Che (China)	49
The catalysis biodecolorization characteristics of novel recyclable insoluble redox mediators onto magnetic nanoparticles Caicai Lu, Dan Yang, Jianbo Guo, Zhen Xie, Yuanyuan Song, Yajuan Xing, Huu Hao Ngo, Yi Han, Haibo Li (China)	62
Activated carbon embedded chitosan/polyvinyl alcohol biocomposites for adsorption of nonsteroidal anti-inflammatory drug-naproxen from wastewater D. Saloglu, N. Ozcan (Turkey)	72
Factors influencing the formation of assimilable organic carbon during chlorination/chloramination of Cyclops Zhengchen Shi, Xingbin Sun, Huishan Ni, Jiameng Liu (China)	85
Preparation of heterogeneous Fenton catalyst Fe/organo-attapulgite and its performance in sodium humate degradation Ting Zhang, Jin Liu, Minmin Chen, Yi Wang (China)	91
Theoretical development of biofilm in hybrid growth sequencing batch reactor (HG-SBR) for degradation of phenol N.A. Yusoff, Soon-An Ong, Li-Ngee Ho, Yee-Shian Wong, F.N.M. Saad, W.F. Khalik, Sin-Li Lee (Malaysia)	100
Oxidation performance of $\text{Fe}^0/\text{Na}_2\text{S}_2\text{O}_8$ process for the treatment of landfill leachate biochemical effluent as well as activator characterization Zhanmeng Liu, Xian Li, Fengping Hu, Peng Zhan (China)	109
Investigation of modified Ginkgo biloba leaves extract as eco-friendly inhibitor for the corrosion of N80 steel in 5%HCl Xuefan Gu, Ke Dong, Jing Tian, Hong Li, Jie Zhang, Chentun Qu, Gang Chen (China)	118
Application of ozone/magnetic graphene oxide for degradation of diazinon pesticide from aqueous solutions H. Arfaeinia, H. Rezaei, K. Sharafi, M. Moradi, H. Pasalari, S.E. Hashemi (Iran)	127
Evaluation of the physico-chemical quality of groundwater in arid areas: case study (watershed of the Oued Bechar) in Bechar-Kenadsa Region A. Belkendil, M. Habi, B. Morsli (Algeria)	136
Carbon dots as fluorescent probe for selective and sensitive detection of cerium (III) ion Yinyin Wang, Fanyong Yan, Depeng Kong, Fanlin Zu, Zhangjun Bai, Jinxia Xu, Li Chen (China)	147

Adsorptive removal of trace uranium ions from simulated wastewater with FeCl_3 -modified attapulgite with sodium alginate beads Aixia Zhou, Jinsheng Wang, Yuanhui Lin, Xin Guan, Rui Zuo, Yanguo Teng (China)	155
Adsorption efficiency, thermodynamics, and kinetics of amino-functionalized mesoporous calcium silicate for the removal of heavy metal ions Lihua Liu, Jinyan Liu, Tong Li, Ganggang Yang, Anping Tang, Yulin Ling (China)	165
Biosorption of Cd^{2+} and Zn^{2+} from aqueous solution using tilapia fish scale (<i>Oreochromis</i> sp): Kinetics, isothermal and thermodynamic study A.I. Adeogun, E.A. Ofudje, M.A. Idowu, S.O. Kareem (Nigeria), S. Vahidhabanu, B. Ramesh Babu (India)	182
Investigation on biosorption of Cd(II) onto <i>Gelidiella acerosa</i> (brown algae): Optimization(using RSM & ANN) and mechanistic studies J.B. Dulla, K. Sumalatha, P. King, P.K. Yekula (India)	195
Comparison of cesium adsorption behavior of CHCF-PAN, MnO_2 -PAN, STS-PAN, CM-PAN and AMP-PAN synthesized composites from aqueous solution R. Saberi, Y. Es-hagh, S. Azad, A. Rajabi (Iran)	207
Photocatalytic activity under visible light to transform As(III) with nitrogen-doped TiO_2 nanoparticles using urea as nitrogen source. Optimization by multivariate analysis M.C. Yeber, C. Escalona, A. Núñez, P. Medina (Chile)	218
Peculiar properties of LTA/FAU synthetic composite zeolite and its effect on Cu^{2+} adsorption: factorial experimental design L.S. Silva, G.S.C. Raulino, C.B. Vidal, M.J.R. Pires, R.F. Nascimento (Brazil)	223
Electro-assisted removal and selective recovery of Cu(II) from aqueous solution with a chitosan-containing composite electrode application in capacitive deionization Dong-Hee Lee, Sea-Yane Beak, Van Hiep Nguyen, Young Ho Kim, Kyung-Bae Kim, Taegong Ryu (Korea)	232
Surface modification of cellulose fibers from oil palm empty fruit bunches for heavy metal ion sorption and diesel desulphurization M.S. Nazir (Malaysia, Pakistan), H. Ajab, M.R. Raza (Pakistan), M.A. Abdullah (Malaysia)	241
Effects of plumbing premise on the occurrences and variability of heavy metals in desalinated and blended tap water F. Kabir, S. Chowdhury, M.A.J. Mazumder, M.H. Zahir, K. Alhooshani (Saudi Arabia)	257
Does the onset of nitrification equally impact in decaying chloramine? K.C. Bal Krishna, D. Rathnayake, A. Sathasivan (Australia)	272
Selection of multi-drug resistant bacteria from water treatment plants P. Kumar Roy, M. Ghosh, M. Biswas Roy (India)	279
pH-independent preconcentration of Hg(II) ions and rapid adsorption of methylene blue in fish and water samples by nanocomposite of MoS_2 @MWCNT hybrid as a solid phase extraction sorbent M.J. Aghagoli, F. Shemirani (Iran)	285
Treatment of textile dye bath wastewater with ozone, persulfate and peroxyomonosulphate oxidation Y. Gunes, I. Bayraktar, T. Olmez-Hanci, G. Kaykioglu (Turkey)	296
Al-Fe exchanged natural clay as an efficient reusable catalyst for dye removal and real textile effluent treatment F. Ayari, S. Khelifi, M. Trabelsi-Ayadi (Tunisia)	305
Photodegradation of Congo red and real textile industries effluent using natural Tunisian iron oxide F. Ayari, A. Ben Othmen, S. Khelifi, M. Trabelsi-Ayadi (Tunisia)	316
TiO_2 nanosheet incorporated polysulfone ultrafiltration membranes for dye removal A.K. Nair, B. Vinay Kumar, G. Kalaiarasan, P.E. Jagadeesh Babu (India)	324
Contribution of H_2O_2 in ultrasonic systems for degradation of DR-81 dye from aqueous solutions M. Dehghani, Y. Kamali, F. Jamshidi, M. Ansari Shirji, M. Nozari (Iran)	332
Author Index	340

Corrigendum to "Transforming membrane technologies as appropriate technologies through cost-effective enhancements" by V. Jegatheesan, S. Dockko, S.H. Lee, L. Shu, F. Roddick, A. Akbarzadeh published in vol. 73 (2017) pp. 256-261 (doi:10.5004/dwt.2017.20789).....	341
Corrigendum to "Optimal design of bioretention cells using multi-objective optimization technique" by Okjeong Lee, Sangdan Kim, Jungmin Lee, Yoonkyung Park published in vol. 102 (2018) pp. 134-140 (doi: 10.5004/dwt.2018.20820)	342
Corrigendum to "Photocatalytic degradation of doxycycline on ellipsoid-like BiVO ₄ synthesized by EDTA-assisted" by Changyu Lu, Jingjing Dang, Chentao Hou, Yunjie Jiang, Weisheng Guan published in vol. 104 (2018) pp. 250-256 (doi: 10.5004/dwt.2018.20867)	343
Corrigendum to "Performance of hematite-grafted nonwoven geotextile layer for treatment of wastewater in SAT system: a columns study" by Majedeh Sayahi, Saeid Eslamian, Jahangir Abedi-Koupai published in vol. 98 (2017) pp. 182-189 (doi: 10.5004/dwt.2017.21729)	344