

Contents

Volume 124

Cost and performance of a hollow-fiber loose nanofiltration membrane pilot-plant for aerated groundwater treatment S.J. Duranceau, D.T. Yonge (USA)	1
Effect of air gap membrane distillation parameters on the removal of fluoride from synthetic water O. Naji, L. Bowtell, R.A. Al-juboori, V. Aravinthan (Australia), N. Ghaffour (Saudi Arabia)	11
Preparation of new tubular carbon ultrafiltration membrane for oily wastewater treatment by air gap membrane distillation I. Derbel, R. Ben Amar (Tunisia)	21
Catalysis of water splitting reaction in asymmetric bipolar membranes with different chemical composition of cation-exchange layer S. Melnikov, V. Zabolotskii, N. Sheldeshov, A. Achoh, D. Bondarev (Russia)	30
Application of factorial design for modeling reverse osmosis process using thin film composite polyamide membrane: a theoretical analysis and experimental validation M.M. Hamdi, S. Thiru, L. Gzara, A.S. Bin Mahfouz (Saudi Arabia)	37
Investigation of organic compounds on the performance of membrane capacitive deionization: desalination rate, energy consumption and its mechanisms Lin Chen, Chengyi Wang, Shanshan Liu, Liang Zhu (China)	53
Study of the gelation kinetics during molecularly imprinted membrane formation YunYing Zhai, Pin Zhang, Yanbin Yun, Jingjing Liu, Zejun Huang, Qiang Xia (China)	62
Effect of salinity and water depth on the performance of doubly inclined solar still G.B. Shirasath, R.G.S. Pala, K. Muralidhar, S. Khandekar (India)	72
Treatment and energy-consumption analysis of high-salt mustard wastewater using combined anaerobic, partial nitritation and ANAMMOX processes Han Wang, Fang Fang, Kai Li, Hui Xing, Jin-song Guo, You-peng Chen, Lian-wei Liu, Zhen-guo Bao (China)	88
Influential analysis of geometrical parameters on falling-film thickness and distribution of sheet flow outside horizontal tube Qinggang Qiu, Xiaocui Zhang, Xiaojing Zhu, Shenglin Quan, Shengqiang Shen (China)	98
Effective removal of heavy metals from aqueous solution by porous activated carbon/thiol functionalized graphene oxide composite F. Mojoudi, A.H. Hamidian, N. Goodarzian, S. Eagderi (Iran)	106
Biosorption analysis of Cd(II) from industrial wastewater using endophytic bacterium <i>Agrobacterium tumefaciens</i> 12b3 by kinetic modeling and equilibrium studies R. Alam Gillani, F. Bareen, N. Ali, H.J. Chaudhary (Pakistan)	117
Effects on the calcium carbonate scale in circulating cooling water: constant magnetic and pulsed magnetic fields Xiao-Lei Wang, Ju-Dong Zhao, Zhi-An Liu, Er-Jun Zhao, Xing Yang, Xiao-Jue Shao (China)	125
Cerium oxide nanoparticles anchored onto graphene oxide for the removal of heavy metal ions dissolved in water A.R. Contreras Rodríguez, J.E. McCarthy, A. Alonso, J. Moral-Vico, X. Font (Spain), Y.K. Gun'ko (Ireland, Russia), A. Sánchez (Spain)	134
Application of electro-oxidation by direct and pulsed current associated to ozonation on raw water treatment A.H. Quintino Rocha, A.G. de Oliveira, J.P. Ribeiro, E.F. Abdala Neto, Á.A. Amazonas, L.T.V. da Silva, R.F. do Nascimento (Brazil)	146
Characteristics of organic-inorganic composite sorbent prepared using lithium hydroxide and manganese oxide for recovery of lithium ions Tae hun Lee, Suk Soon Choi, Kibeum Kim, Hyunju Park (Korea)	153

Deactivation and regeneration of photocatalysts: a review Xiaoju Yan, Yu Tang, Cong Ma, Ying Liu, Jun Xu (China)	160
Application of polypyrrole coated on perlite zeolite for removal of nitrate from wood and paper factories wastewater A. Naghizadeh, T. Etemadinia, O.M. Rezaei, O. Mehrpour, S.J. Mousavi, M. Sadeghi (Iran)	177
Removal of strontium ion from aqueous solution by PS-D2EHPA beads prepared by immobilizing di-2-ethylhexyl phosphoric acid (D2EHPA) with polysulfone (PS) Min-Gyu Lee, Sang-Kyu Kam, Jung-Ho Suh, Chang-Han Lee (Korea)	184
Development of cloud point extraction preconcentration of cadmium and lead in solid samples using flame atomic absorption spectrometry Z. Bahadir, M. Yazar, S.O. Tümay, H. Serencam, H. Bektaş, C. Duran (Turkey)	193
Comparison of classification and supervised learning algorithms in assessing the hydraulic conditions of sewer collection systems: A case study of local sewer networks in Jinju City, Korea Seo Jin Ki, Chun-Sik Lee, Won-Hee Jung, Hyun-Geoun Park (Korea)	202
Assessment of groundwater risk to Plio-quaternary aquifer's contamination: semi-arid climate case (central Tunisia) K. Ncibi, M. Mosbahi, N. Gaaloul (Tunisia)	211
The antibacterial effect of G3-poly-amidoamine dendrimer on gram negative and gram positive bacteria in aqueous solutions A. Saifoury Mofrad, M.J. Mohammadi, H.J. Mansoorian, Y.O. Khaniabadi, M.A. Jebeli, N. Khanjani, M. Khoshgoftar, A.R. Yari (Iran)	223
Hydrodynamic characteristics of UASB granular sludge produced from combined anaerobic/aerobic treatment systems A.M. Dohdoh, A.M. Aboulfotah (Egypt)	232
Influence of water quality on photocatalytic degradation of trace carbamazepine in real water bodies Longli Bo, Haixia Han, Heng Liu (China)	240
Investigation of single-walled carbon nanotubes in removal of Penicillin G (Benzyl penicillin sodium) from aqueous environments H. Sharifpour, N. Javid, M. Malakootian (Iran)	248
Degrading quinoline wastewater by catalytic wet peroxide oxidation Zhaojie Jiao, Guilin Zhou, Haidong Zhang, Yu Shen, Xianming Zhang, Xu Gao (China)	256
Competitive adsorption of selenite [Se(IV)], selenate [Se(VI)] and selenocyanate [SeCN ⁻] species onto TiO ₂ : Experimental findings and surface complexation modelling B.A. Labaran, M.S. Vohra (Saudi Arabia)	267
Removal of Methylene Blue dye from aqueous solutions by illite clay E. Özmetin, M.M. Kocakerim (Turkey)	279
Pomegranate peels collected from fresh juice shop as a renewable precursor for high surface area activated carbon with potential application for methylene blue adsorption A.H. Jawad (Malaysia), M.H. Sauodi (Iraq), M.S. Mastuli (Malaysia), M.A. Aouda (Iraq), K.A. Radzun (Malaysia)	287
Adsorption behavior of methylene blue on acid-treated rubber (<i>Hevea brasiliensis</i>) leaf A.H. Jawad (Malaysia), S.H. Mallah (Iraq), M.S. Mastuli (Malaysia)	297
Synthesis and characterization of TiO ₂ nano-particles loaded activated carbon for Congo Red removal from wastewater: kinetic and equilibrium studies A. Azari, R. Rezaei, H. Sanaeeupur (Iran)	308
Surfactants modified egg shells for removal of methyl violet from aqueous solutions Lu Fan, Yingxi Wang, Ling Li (China)	319
A high efficiency and rapid adsorbent for removing sunset yellow FCF by amine-modified microporous polymer Jingshuang Fan, Yunxiafei Ling, Chao Gao, Haixia Lyu (China)	326
Author Index	336