Contents

Volume 313

Performance comparison of solar stills using two kinds of solar collectors

Modeling of heat and mass transfer in vacuum membrane distillation for seawater desalination
Z. Triki, Z. Fergani, H. Tahraoui (Algeria) ......................................................................................... 12

Performance feasibility study of direct contact membrane distillation systems in the treatment of seawater
and oil-field-produced brine: the effect of hot- and cold-channel depth
H. Al-Sairfi (Kuwait), M.Z.A. Koshuriyun (UK), M. Ahmed (Kuwait) .............................................. 26

Superhydrophilic MXene/mixed-dimensional clay/PVA film for solar interfacial evaporation
Wenxiao Mu, Chenxiu Gao, Nan Wang, Yuxuan Liu, Hanxue Sun, Zhaqoi Zhu,
Jiyian Li, Weidong Liang (China) .................................................................................................... 37

Development of a ceramic membrane on a flat support for the treatment of an industrial effluent
O. Jlassi, S. Louhichi, S. Khemakhem (Tunisia) .................................................................................. 49

Study of the treatment efficiency of cuttlefish conditioning effluent
using low-cost zeolite/sand composite microfiltration membrane
H. Aloulou, W. Aloulou, R. Ben Amar (Tunisia) .............................................................................. 57

Tertiary treatment of wastewater by coupling anodic oxidation processes
using solar energy and the coagulation-flocculation processes
B. Louhichi, F. Gaied, L. Boulouanour, W. Hamdi, N. Hamdi (Tunisia),
B. L’taief, M.O. Alshaharni (Saudi Arabia), M.-R. Jeday (Tunisia) ...................................................... 66

Performance and microbial characteristics of anaerobic/anoxic/aerobic (A2O)-biofilm system
for electroplating wastewater treatment: a pilot scale study
Yuqi Zhou, Jia Zhu, Xiao Huang, Jingsi Gao, Guijia Zhuang (China) ..................................................... 74

Preparation, characterization and performance of PVDF/Al2O3, TiO2 and clay membrane
for removal of toxic metals
M. Hesavi, E. Derikvand, M. Solimani Babarsad, M. Shafaei Bejestan, M. Zendehdel (Iran) .......... 82

De-emulsification performance and mechanism of polyether-polyquaternium copolymers
and compounding products on tight gas produced water
Kai-wen Liu, Peng-cheng Hao, Zhi-qiang Hu, Xiang-wei Li, Fei Meng, Xian-zhe Guo,
Zhao-zhuang Liu, Wu Chen (China) .................................................................................................. 92

Experiment of treating polluted wastewater resulting from petroleum refineries
using pyramid solar still distillation system to eliminate hydrocarbon toxicity

Rapid reduction of 4-nitrophenol into 4-aminophenol and industrial wastewater treatment
in the presence of UiO-66/btb/MgO catalyst
F. Amarloo, R. Zhiani, A. Motavalizadehkakhky, M. Hosseiny, J. Mehrzad (Iran) .......................... 116

Disinfectants of plant origin: emerging application, standardization and meta-analysis
A.O. Adeeyo, B.S. Ojelade (South Africa), M.A. Alabi (Nigeria), R. Makungo (South Africa) ....... 125

Controllable one-step production of 2D MgAl-LDH for photocatalytic removal of tetracycline
Xinqi Long, Yinke Wang, Jun Hu, Lixu Wu, Chun Sun, Feipeng Jiao (China) ................................. 130

Adsorption performance of oxytetracycline by different modified hydroxyapatite nanoclusters
Jing-qian Xu, Juan Tian, Meng-ting Guo, Wen-bin Li, Bixia Wang,
Hong-yun Deng, Feng Shi (China) ..................................................................................................... 142

Preparation and application of modified activated carbon for effective removal of phosphorus
from glyphosate by-product salt
Qisheng Wu, Jie Zhang, Sen Wang (China) ......................................................................................... 152

Preparation and adsorption study of polyvinyl alcohol-functionalized
sodium alginate composite hydrogel for Pb(II) in aqueous solutions
Huiling Zhang, Ziyun Ye, Junjie Liang, Zekang Hu, Hongyu Liu (China) ........................................ 162
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removal of hexavalent chromium and methylene blue in aqueous solutions using activated carbon prepared from rubber seed shell</td>
<td>K. Pattarith, S. Tangtubtim, S. Thupsuri (Thailand)</td>
<td>173</td>
</tr>
<tr>
<td>Degradation of Direct Red 16 using hybrid treatment strategies based on hydrodynamic cavitation, and advanced oxidation processes</td>
<td>E. Noori, S. Eris, F. Omidi, S. Beigrezaee, A. Asadi (Iran)</td>
<td>196</td>
</tr>
<tr>
<td>Effect of hexadecyl trimethyl ammonium bromide on sonocatalytic degradation of Orange II by using bagasse biochar</td>
<td>Guoting Li, Shude Zhang, Panpan Yu, Xiao Mi, Yujie Guo, Chenliang Shen (China)</td>
<td>209</td>
</tr>
<tr>
<td>A new approach to assess non-revenue water and intervention prioritization in water distribution zones</td>
<td>H. AbuEltayef, H. Alastal, K. AbuAlhin (Palestinian Authority)</td>
<td>216</td>
</tr>
<tr>
<td>Vertical spatial optimization design of drainage water treatment facilities in coastal cities under storm surge environment</td>
<td>Ming Yan, Yonggang Cheng, Miao Wu (China)</td>
<td>227</td>
</tr>
<tr>
<td>Water quality characterisation, antibacterial activity and metabolite profiling of Malaysian tropical mangrove-derived Actinophytocola sp. K4-08</td>
<td>Z.A.Z. Abidin, N.H.M. Zin, D.S. Darnis (Malaysia), A.J.K. Chowdhury (Brunei)</td>
<td>236</td>
</tr>
<tr>
<td>Biosurfactant and bioemulsifier production by hydrocarbonoclastic bacteria isolated from petroleum sludge as potential biodispersant for oil spill remediation</td>
<td>N. Annuar, N. Azhary, N.A. Yusof, S.M. Omar (Malaysia), Riaz Ullah, E.A. Ali (Saudi Arabia)</td>
<td>243</td>
</tr>
<tr>
<td>Eutrophication assessment and bloom control strategy of water body based on fuzzy rough set algorithm under the development of urban landscape lakes and reservoirs</td>
<td>Tao Li, Lei Wang, Dongsheng Huang, Daibo Xiao (China)</td>
<td>252</td>
</tr>
<tr>
<td>Calculation model and management system of WRCC based on grey water footprint calculation</td>
<td>Weili Zhang (China)</td>
<td>266</td>
</tr>
<tr>
<td>Alkaline salt solution resin for inorganic salt wastewater treatment</td>
<td>Yang Peng, Luan He, Xuepeng Gao (China)</td>
<td>279</td>
</tr>
<tr>
<td>Coupling coordination analysis between urban park wetland water ecological construction and carbon emissions</td>
<td>Dexin Huang (China)</td>
<td>290</td>
</tr>
<tr>
<td>Integration application of finite difference flow modeling and SWAT model in the distribution and transformation of water resources in irrigation areas</td>
<td>Jingui Wang, Dongjuan Cheng (China)</td>
<td>300</td>
</tr>
<tr>
<td>Deformation law and stability state of cofferdam during pumping process in PC combined method pile cofferdam</td>
<td>Funing Li, Jie Huang (China)</td>
<td>315</td>
</tr>
<tr>
<td>Multi-objective decision making study for flood construction risk analysis in civil engineering</td>
<td>Jianhua Zhou (China)</td>
<td>331</td>
</tr>
<tr>
<td>Author Index</td>
<td></td>
<td>341</td>
</tr>
</tbody>
</table>