

Contents

Volume 213

| | |
|---|-----|
| Treatment of highly saline brines using a static freeze crystallisation process M. Ahmed (Kuwait), D. Oatley-Radcliffe, P.M. Williams (UK) | 1 |
| Modeling and simulation of water production for different solar still heights and condensation surfaces H. Akroud, K. Hidouri, B. Chaouachi, R. Ben Slama (Tunisia) | 26 |
| Productivity enhancement of the solar still by using water cooled finned condensing pipe M. Al-Dabbas, A. Alahmer, A. Mamkagh, M.R. Gomaa (Jordan) | 35 |
| Study of a modified multiple effect distillation (MED) brackish water system for a minimal water footprint A. Hadji, N. Kasbadji Merzouk, M. Merzouk (Algeria), S. Alexopoulos (Germany), Z. Tigrine (Algeria) | 44 |
| Enhancement of solar still productivity using absorber plate with inclined perforated rectangular fins: experimental study with economic analysis W.H. Alawee, H.A. Dhahad, T.A. Mohammad (Iraq) | 53 |
| Hybrid water disinfection system with silver ion in continuous flow ultrasonic reactor F. Karaer Özmen, A.S. Koparal (Turkey) | 64 |
| Artificial neural network and mathematical approach for estimation of surface water quality parameters (case study: California, USA) E.S. Salami, M. Salari, M. Rastegar, S. Nikbakht Sheibani, M. Ehteshami (Iran) | 75 |
| Water quality assessment based on interval-valued data cluster analysis Siqing Shan, Yuebin Bai, Xiaojing Wang (China) | 84 |
| Waterborne transmission of protozoan parasites: a review of water resources in Iran — an update 2020 E. Hoseinzadeh, A. Rostamian, M. Razaghi (Iran), Chiang Wei (Taiwan) | 91 |
| Impact of clear waters parasites on the biological waste water treatment R. Zamouche-Zerdazi, M. Bouteraa, S. Hallel, M.E.A. Bouhamla, M.B. Lehocine, A.H. Meniai (Algeria) | 106 |
| Electricity consumption in the municipal water sector in an oil-exporting, water-stressed country: the case of Bahrain M. Alsabbagh, W. Al-Zubari, M. Marzooq, R. Hasan (Bahrain) | 117 |
| Study of growth kinetics of Antarctic bacterial community for biodegradation of waste canola oil K.N.M. Zahri (Malaysia), A. Zulkharnain (Japan), C. Gomez-Fuentes (Chile), S. Sabri, S.A. Ahmad (Malaysia) | 128 |
| Simple and cost-effective to fabricate P(VC/VAC) based anion exchange membranes for acid recovery via diffusion dialysis Congliang Cheng, Wei Chen, Bing Tong, Xianhai Hu, Ping Li (China) | 139 |
| Evaluation of the use of modified paved drying beds compared to the conventional sand drying beds A.A. Elbaz, A.M. Aboulfotoh, E.H. ElGohary, M.T. Reham (Egypt) | 148 |
| Effect of polymer type on the characteristics of ZnO embedded nanocomposite membranes B.M. Erdugan, S. Dadashov, E. Demirel, E. Suvaci (Turkey) | 159 |
| Effect of electromagnetic treatment of treated wastewater on soil and drainage water M. Moussa (Tunisia), D. Michot (France), M. Hachicha (Tunisia) | 177 |
| Simulation of a full-scale wastewater treatment plant performance at various temperatures using Extended Activated Sludge Model No. 1 N.A. El Hattab, M.M. El-Seddik, H.S. Abdel-Halim, M.E. Matta (Egypt) | 190 |
| Comprehensive evaluation of urban water saving based on AHP-TOPSIS Xianqi Zhang, Tianyi Liang (China) | 202 |

| | |
|---|-----|
| Current progress in metal-organic frameworks-embedded membranes for water desalination B.L. Suwandi, L.N. Widjaja, S. Catherine, S.P. Santoso, F.E. Soetaredjo (Indonesia, Taiwan), A.E. Angkawijaya (Taiwan), A.A. Anggorowati (Malaysia), S. Ismadji (Indonesia, Taiwan), P.L. Tran-Nguyen (Vietnam), Yi-Hsu Ju (Taiwan) | 214 |
| Enhancement of ciprofloxacin antibiotic removal from aqueous solution using ZnO nanoparticles coated on pistachio shell A.A. Mohammed, S.L. Kareem (Iraq) | 229 |
| In-situ measurement of Auramine-O adsorption on macroporous adsorption resins at low temperature using fiber-optic sensing T. Aydan, Jing-Jing Yang, T. Muhammad, Fei Gao, Xiao-Xia Yang, Yi-Ting Hu (China) | 240 |
| Enhanced bromate adsorption by using α -FeOOH pillared bentonite Cheng Zhong, Rui Deng, Meng Gao, Yunpeng Cao, Pan Weiliang, Li Gu, Qiang He (China) | 248 |
| Urea removal using electrocoagulation process with copper and iron electrodes M. Mamdouh, S.M. Safwat, H. Abd-Elhalim, E. Rozaik (Egypt) | 259 |
| Comparative studies of Rhodamine B decolorization in the combined process $\text{Na}_2\text{S}_2\text{O}_8$ /visible light/ultrasound P. Zawadzki (Poland) | 269 |
| Removal of organic and nitrogen compounds from landfill leachates by coagulation, Fenton and adsorption coupling processes N. Turki, N. Boujelben, Z. Bakari (Tunisia), A. Kettab (Algeria), J. Bouzid (Tunisia) | 279 |
| Trihalomethanes (THMs) removal from aqueous solutions using environmental friendly and effective adsorbent onto <i>Mespilus germanica</i> modified by $\text{Fe}_2(\text{MoO}_4)_3$ nanocomposite on equilibrium, thermodynamic, and kinetics M. Rahmani Piani, M. Abrishamkar, B. Mombeni Goodajdar, M. Hossieni (Iran) | 288 |
| Structural study of the hydrotalcite-carbon composite and its use for the removal of aqueous sulphate E. Castellar Arroyo, C. Solano Polo, J. Rodríguez-Ruiz, E. Espinosa-Fuentes, E. Meza-Fuentes (Colombia) | 303 |
| Removal of polycyclic aromatic hydrocarbons (PAHs) from contaminated sewage sludge using advanced oxidation process (hydrogen peroxide and sodium persulfate) S.A. Mokhtari, M. Gholami, A. Dargahi, M. Vosoughi (Iran) | 311 |
| High efficient photodegradation of organic dyes by TiO_2 /graphene composite under visible light radiation Guoling Li, Jianzeng Liu, Ting Zhou, Shirong Li, Yunshan Bai, Huanhuan Liu (China) | 319 |
| GAC@ Fe_3O_4 , LDHs@ Fe_3O_4 and GO@ Fe_3O_4 applied to tetracycline hydrochloride removal in three-dimensional heterogeneous electro-Fenton process Dandan Lv, Yan Wang, Hui-qiang Li (China) | 328 |
| The interaction effect of magnetism on arsenic and iron ions in water M.B. Miranzadeh, M. Naderi, V. Past (Iran) | 343 |
| High-performance removal of iron from aqueous solution using modified activated carbon prepared from corn cobs and luffa sponge N. El-Bendary, H.Kh. El-Etriby, H. Mahanna (Egypt) | 348 |
| Adsorption of Cu(II) and Cr(III) ions on SBA-15 mesoporous silica functionalized by branched amine Ying Yang, Xiang Cao, Zhenping Ma, Guohao Wu, Liangliang Zheng, Yuanyuan Zhang (China) | 358 |
| Nickel and chromium removal by electrocoagulation using copper electrodes O.A. Shaker, M.E. Matta, S.M. Safwat (Egypt) | 371 |
| Removal of Ni(II) and Co(II) ions from aqueous solutions utilizing <i>Origanum majorana</i> -capped silver nanoparticles Z. Kazemi, F. Marahel, T. Hamoule, B. Mombeni Goodajdar (Iran) | 381 |
| Removal of bismuth ion from aqueous solution by pulverized eggshells A. Abbas, Li Chen, Yu-liang Liao, Zhen-zhong Wu, Ya-qi Yu, Jin-yan Yang (China) | 395 |
| Synthesis of eco-friendly alginate-based supports for silver oxide immobilization in catalytic degradation of textile dyes A. Bibi, Sadiq-ur-Rehman, T. Akhtar, I. Ahmad (Pakistan) | 406 |
| Removal of methylene blue from aqueous solution by functionalized UiO-66 with basic moiety Shuicui Han, Jinbei Yang, Xueling Lin (China) | 418 |

| | |
|---|-----|
| A potentially low-cost adsorbent for Methylene Blue removal from synthetic wastewater H.A. Al-Aoh, M.M.H. Aljohani (Saudi Arabia), A.A.A. Darwish (Saudi Arabia, Yemen), M. Ayaz Ahmad, S.A. Bani-Atta, M.A. Alsharif, Y.M. Mahrous, S.K. Mustafa, H.S. Al-Shehri (Saudi Arabia), L.R. Alrawashdeh (Jordan), J.N. Al-Tweher (Saudi Arabia) | 431 |
| Activated carbon fiber from natural precursors: a review of preparation methods with experimental study on jute fiber M.R. Yousuf, F. Mahnaz, S.R. Syeda (Bangladesh) | 441 |
| Author Index | 459 |