

Contents

Volume 247

Enhancing hemispherical solar still yield via wick materials and glass cover cooling M.E.H. Attia (Algeria), A.E. Kabeel (Egypt), A. Bellila (Algeria), W.M. El-Maghlyany, M. Abdelgaiad, S.A. El-Agouz, M.M. Abdel-Aziz (Egypt)	1
Comparative study of the performance of a locally manufactured membrane and the commercial one in vacuum distillation of brackish water A. Hamzaoui, K. Hidouri, B. Chaouachi (Tunisia)	10
Synthesis of nanocomposite membranes embedded with cellulose nanocrystals and their application to filtrate of arsenic aqueous solutions M. Hashemibeni, E. Ameri (Iran), J. Hashemibeni (China), H. Seifi (Iran)	17
Pressure drop across membrane spacer-filled channels using porous media characteristics and computational fluid dynamics simulation B.A. Abdelkader, M.H. Sharqawy (Canada)	28
Mechanisms, diagnosis, and monitoring of biofouling in membrane processes: a review F. Saffarimiandoab, B. Yavuzturk Gul, R. Sengur Tasdemir, B. Kose Mutlu, S. Erkoc Ilter, S. Unal, B. Tunaboylu, Y.Z. Menceloglu (Turkey), V. Vatanpour (Turkey, Iran), I. Koyuncu (Turkey)	40
Energy consumption of the hydrogen separation process from a mixture with natural gas K. Janusz-Szymańska, J. Kotowicz (Poland)	64
Hazardous event analysis of microbiological contamination in risk management of large water supply systems I. Zimoch (Poland)	72
Model for organic contaminant removal through the synthesis–adsorption one-step process of organobentonite Luxiang Cai, Xinyu Zhang, Bingying Cui, Yu Mei (China)	82
Photocatalytic degradation of nitrotoluene in synthetic wastewater by $\text{CoFe}_2\text{O}_4/\text{SiO}_2/\text{TiO}_2$ nanoparticles using Box-Behnken experimental design A. Shokri (Iran)	92
Graphene oxide modified polypropylene fiber filter membrane for enhanced treatment efficiency of water-based paint wastewater Yang Zhang, Hang Yang, Qun Cai, Shibin Xia (China)	100
Adsorption characterization and mechanism of aluminum based chitosan/zeolite molecular sieve composite for fluoride removal Yunan Gao, Shui Liu (China)	108
Preparation, performance and mechanisms of glass pumice for Pb^{2+} removal from storm water runoff Menglin Ba, Wanli Hou, Yu Cai, Jianghua Yu (China)	121
Adsorption of Cr(VI) in wastewater by phosphoric acid/nitric acid/oxalic acid modified bagasse Li Zhang, Jing Huang, Xuemei Liu, Simeng Luo, Lingxiao Qu (China)	132
Potentiality of unfertilized mango flowering buds for removing Cd, Cu, and Pb from aqueous solutions A. Abdo (Egypt)	144
The use of <i>Phanerochaete chrysosporium</i> as an alternative bioremediation tool of heavy metal, chemical oxygen demand and phosphate from landfill leachate N. Yildirim, E. Kardas, M. Ince (Turkey)	156
Removal of Cd^{2+} in water by FeSO_4 magnetic modified eggshell adsorbent Dekang Meng, Xiangyi Gong, Zhang Peng, Zeya Wang, Dajun Ren (China)	161
Aniline removed from simulated wastewater by electro-Fenton process using electric energy from photovoltaic modules Yongkang Mou, Yuxiang Xia, Shunxi Zhang, Yun He, Wenjuan Shen, Jianfen Li (China)	173
Cellulose derived from corn straw for the efficient adsorption of Cd(II) from water Bangwei Li, Zhonglei Xie, Mengying Guo, Tianya Chen, Xiulan Ma, Yujun Wang, Chang Peng (China)	184

Feasibility of the flux calcined porcelanite used in cake filtration process for wastewater treatment J. Essid, A.H. Ahmed, A. Enneili, R. Saidi, A. Tlili (Tunisia)	195
Eliminating the need for organic hole scavenger in the photoreduction of selenite and selenate from aqueous phase A.K. Usman, A.B. Aris (Malaysia), B.A. Labaran (Saudi Arabia)	206
Adsorptive removal of tetracycline from aqueous solution by surfactant-modified zeolite: equilibrium, kinetics and thermodynamics F. Kord Mostafapour (Iran), M. Yilmaz (Turkey), A.H. Mahvi, A. Younesi, F. Ganji, D. Balarak (Iran)	216
Antibiotics in the surface water and sediment from the tributaries of Xiaoqing River, China: occurrence, distribution and risk assessment Wenping Dong, Miaowei Ci, Xianshou Yan, Yongqiang Wang, Guodong Zhang, Wenfeng Xu, Xingang Gao, Kang Xie, Weiliang Wang (China)	229
Combined statistical analysis of water quality for determination of relationships between parameters: case study of Akköprü Stream, Van/Turkey A. Turan, A. Aldemir, H. Hapoğlu (Turkey)	244
Application of machine learning methods to removal percentage prediction for malachite green adsorption on kaolinite M. Canayaz, A. Aldemir, A.R. Kul (Turkey)	258
Cloud point extraction of Telon Orange anionic azo-dye from aqueous sulphate solutions using Aliquat 336 ionic liquid/Tween 40 as extracting system: factorial design optimization methodology K. Oukenbdane, R. Semmoud, M.A. Didi (Algeria)	272
Investigation of adsorption performances of green walnut hulls for the removal of methylene blue Y. İşlek Coşkun (Turkey)	281
Eggshell derived calcium oxide nanoparticles for toluidine blue removal E.A. Ofudje, E.F. Sodiya, F. Akinwunmi, A.A. Ogundiran, O.B. Oladeji, O.A. Osudeko (Nigeria)	294
Comparison of 2D and 3D electrochemical oxidation systems for removal of reactive dyes in water T.A. Nguyen, C.H. Nguyen Thi, T.K. Tran, V.T. Nguyen, N.H. Nguyen (Vietnam)	309
Corrigendum to "Modeling and optimizing Orange G removal by heat-activation persulfate using two-step statistical strategies: Plackett-Burman and Box-Behnken designs" published in Vol. 244, December 2021, pp. 291–301 [doi: 10.5004/dwt.2021.27904] N. Habache, O. Bechiri, I. Djaghout, M. Djenouhet (Algeria)	319
Corrigendum to "Performance evaluation of multi-walled carbon nanotubes for decolorization of synthetic industrial wastewater: equilibrium, kinetics, and thermodynamics" published in vol. 188, June 2020, pp. 194–201 [doi: 10.5004/dwt.2020.25368] M. Afsharnia, A. Naghizadeh, A. Karimi, B. Mansouri (Iran), O.S. Ayanda (Nigeria)	320
Statement of Retraction "Modeling of adsorption isotherms of (5, 5' disodium indigo sulfonate) from aqueous solution onto activated carbon: equilibrium, thermodynamic studies, and error analysis" published in vol. 147, April 2019, pp. 273–283 [doi: 10.5004/dwt.2019.23753] Z. Harrache, M. Abbas, T. Aksil, M. Trari (Algeria)	321
Author Index	322