



Contents

Volume 264

| | |
|--|-----|
| Exergy analysis of a seawater reverse osmosis plant in Jeddah, Saudi Arabia A. Al Ghamdi, I. Mustafa (Saudi Arabia) | 1 |
| Application of ultrasound-assisted NaClO in membrane bioreactors membrane cleaning Jianming Cheng, Weiye Shi, Jianan Xiao, Yiran Ren, Defang Ma, Yan Wang, Baoyu Gao (China) | 12 |
| Effects of organics on an ANAMMOX biofilm reactor: nitrogen removal efficiency and microbial community Zichun Yan, Longzhen Jiao, Li Shen, Ruixiang Tang, Dabing Wu (China) | 24 |
| Inhibitory effects of D-ribose on biofilm development of <i>Escherichia coli</i> Xinying Su, Xin Cheng, Jintao Luo (China) | 33 |
| Co-application of triple super phosphate and chicken litter biochar improves phosphorus availability of mineral tropical acid soils to reduce water pollution O.H. Ahmed (Brunei), M. Ali (Ghana), R. Abdullah, A.J.K. Chowdhury, N.T. Salleh (Brunei), A.A. Musah (Malaysia) | 40 |
| Evaluation of total dissolved solids removal characteristics by recycling concentrated water in membrane capacitive deionization process Changseog Oh, Jusuk An, Seungjae Yeon, Hyun Je Oh (Korea) | 54 |
| Simultaneous arsenic(III) anaerobic oxidation with bioelectricity generation in microbial fuel cells Jianping Cheng, Hongseng Xu, Zhiguo Tang, Jing Guo (China) | 62 |
| Efficient use of circulating fluidized bed combustion fly ash and slag generated as a result of sewage sludge incineration to remove cadmium ions T. Kalak (Poland) | 72 |
| Economic comparison between wastewater treatment systems using simulation software E.F. Latif (Egypt) | 91 |
| Sediment characteristics of urban wastewater flows M. Monadi, M. Mohammadi (Iran) | 102 |
| Effect of pH on the adsorptive and cycling performance of amphoteric clay-loaded biochar Wen-bin Li, Hong-yan Deng, Yong Ye, Shu-ni Zhou, Abbas Touqeer, Jiang-ming Ouyang, Qi Kuang, Wei Liu (China) | 111 |
| Preparation, characterization, and adsorption performance of activated rice straw as a bioadsorbent for Cr(VI) removal from aqueous solution using a batch method A. Putra, S. Fauzia, Deswati, S. Arief, R. Zein (Indonesia) | 121 |
| Recovery of boron from desalination brine through amberlite IRA 743 resin Cheng-Han Lee, Pin-Han Chen, Wei-Sheng Chen (China) | 133 |
| Application of the Doehlert design for the defluoridation of industrial wastewater by adsorption onto natural clay M. Ba, A. Ezzeddine (Tunisia), S.V. Dorozhkin (Russia), M. Hidouri (Tunisia) | 141 |
| Adsorptive removal of nickel ions from wastewater by synthesized a novel biocomposite material and process optimization by response surface methodology M. Ince, O.K. Ince, H. Alp (Turkey) | 151 |
| Chemical phosphorus removal optimization from coating wastewater using iron-calcium salt Mengyi Zhang, Yongzhi Chi, Songya Li, Cuilian Fu, Hongying Yuan, Xueke Wang, Fuqiang Chen (China) | 164 |
| Single/synchronous adsorption of Cu(II), Cd(II) and Cr(VI) in water by layered double hydroxides doped with different divalent metals Xiao-tong Chen, Xing-peng Liu, Hui-qiang Li, Di Bao, Ping Yang (China) | 172 |
| Fast and simple differential pulse adsorptive stripping voltammetric determination of Ce(III) in natural water samples M. Adamczyk, M. Grabarczyk, E. Wlazłowska (Poland) | 188 |

| | |
|---|-----|
| Simulation of chromium(III) ions biosorption from aqueous environment by olive stone biomass in a fixed-bed column and analysis of effective parameters using computational fluid dynamics method A.H. Saeedi Dehaghani, R. Soleimani (Iran), A.H. Mohammadi (South Africa) | 196 |
| Ni-Fe and Zn-Fe LDHs synthesized by co-precipitation method at variable pH: application to the removal of Cochineal Red A dye from aqueous solution R. Mendil, N. Nasrallah (Algeria) | 205 |
| Adsorptive removal of crystal violet dye from aqueous solutions using natural resource systems A. Bondarev, C.-G. Gheorghe (Romania) | 215 |
| Equilibrium, kinetics, and optimization studies of methylene blue removal from aqueous solution using corn stalk wastes S.A. Mousavi, M. Moshashaei, V. Abtin (Iran) | 224 |
| Preparation and characterization of FeMoCoS nanocomposites for efficiently adsorbing dye from wastewater Bai Sun, Angang Hu, Yunming Cheng, Haiyan Zhou, Xiaojie Song, Jie Mao, Yun Wang, Xiangxiang Wang, Shuguang Zhu, Xinli Cai (China) | 234 |
| Numerical simulation and parameter analysis of Acid Red B migration in river sand Yiyun An, Aifang Gao, Zefeng Song, Xiaofeng Fang, Shaorong Li, Boyi Gao, Yingying Lian, Mingyuan Yu, Aiguo Li, Bingfei Yang (China) | 244 |
| Application of pollution prevention concept for reducing the impact of aircraft factory paint booth wastewater – case study Arab Organization for Industrialization M.A. El-Khateeb, R.I. Mohamed (Egypt) | 252 |
| A tailored metal–organic framework applicable at natural pH for the removal of 17 α -ethinylestradiol from surface water P. Javidan, M. Baghdadi, A. Torabian, B. Aminzadeh Goharrizi (Iran) | 259 |
| Preparation and characterization of a spherical Cu/Mn/Ce ternary nanocomposite oxide with high adsorption efficiency of tetracycline Bai Sun, Haiyan Zhou, Jie Zhang, Angang Hu, Jie Mao, Yun Wang, Xiangxiang Wang, Shuguang Zhu (China) | 270 |
| Synthesis and characterization of magnetic iron sulfide (Fe-S)/CuS nano composite as a novel recyclable catalyst in photocatalyst removal of tetracycline from aqueous solutions H. Rasouli Darmiyan, R. Khosravi, T. Shahryari (Iran) | 280 |
| Impact of H ₃ PO ₄ -activated carbon from pine fruit shells for paracetamol adsorption from aqueous solution I. Hamadneh, R.A. Abu-Zurayk, A. Aqel, A. Al-Mobydeen, L. Hamadneh, Y. Al-Dalahmeh, F. Hannon, R. Albuqain, S. Alstari, A.H. Al-Dujaili (Jordan) | 293 |
| HYDRUS-1D modelling of soil water regime in a rational irrigation pilot application (Nigrita, Greece) D. Voulanas, E. Hatzigiannakis, G. Arampatzis (Greece) | 307 |
| Corrigendum to "Adsorption and photocatalysis compiled toxic dyes mineralization using graphitic carbon nitride modified ZnFe ₂ O ₄ and CoFe ₂ O ₄ photocatalysts supported onto N-doped graphene" published in Vol. 191, May 2020, pp. 381-399 [doi: 10.5004/dwt.2020.25713] N. Chandel, S. Sharma, V. Dutta, P. Raizada (India), A. Hosseini-Bandegharai (Iran), R. Kumar (India), V.K. Gupta, S. Agarwal (Saudi Arabia), P. Singh (India) | 318 |
| Author Index | 320 |