

Contents

Volume 278

Characterization of adsorbents from Ukrainian kaolinite clay for the sorption of nickel: insight and practical application for water treatment in conditions of economic constraints Y. Trach (Poland, Ukraine), F. Bujakowski, E. Koda, Ł. Mazur, K. Nejbert, A. Podlasek (Poland), M.D. Vaverková (Poland, Czech Republic)	1
Reliability and probability of organic and biogenic pollutants removal in a constructed wetland wastewater treatment plant in the aspect of its long-term operation P. Bugajski, Z. Mucha, K. Józwiakowska, M. Mucha, W. Wójcik (Poland)	13
Treatment system integrated a reactor with sulfate-reducing activity and a constructed wetland for contaminant removal J.M. Márquez-Reyes, C. García-Gómez, A.I. Luna Maldonado, H. Rodríguez-Fuentes, J.A. Vidales-Contreras (Mexico)	23
Research on the application and effect of sewage purification technology in urban river pollution control Chenhui Wu, Cuiling Jiang, Weijie Gao, Peisi Yu, Hui Geng, Wang Yuan, Shujuan Zhu, Zeyue Sun (China)	31
Laundry wastewater treatment under detergent-free environment and reaction kinetic analysis of ozonation technique for the recycling and other applications S. Khalid, A. Wahab, A. Yasar, R. Tanveer, A.B. Tabinda, M. Zakaullah (Pakistan)	40
Novel WS ₂ /ZnS composite with high performance of the adsorption and photocatalysis Siqi Feng, Mingze Xu, Xueying Chu, Yingjiao Zhai, Jinhua Li (China)	49
Relationship between microbiota classification and working conditions of sequencing biofilm batch reactor process in Tibetan habitat Xiangyu Chen, Lishuai Zhao, Jun Wang, Huifang Zhang (China)	55
Biomonitoring through determination of cyanobacterial genera and assessment of toxicity risks in fresh water: case of Bougous reservoir (Eastern Algeria) K. Boutarfa, A. Saoudi, K. Boufligha, M. Bensouilah (Algeria)	72
Effects of sludge-reflux ratio and energy-substrate dose on sludge bioleaching with a two-phase baffled flow reactor Jiajing Pan, Yu Dai, Hongtao Liu, Rongjun Wu, Jun Zhang, Yulan Lu (China)	82
Modeling and optimization of electrocoagulation process for removal of Cr(VI) and total suspended solids from tannery effluent D. Singh, V. Shende, S.K. Agrahari, G.L. Devnani, Y. Jaiswal, S.L. Pai (India)	93
Wastewater sludge as a low-cost effective adsorbent of hexavalent chromium: equilibrium, kinetics, and thermodynamic studies M. Cherifi, W. Mecibah, S. Bouasla (Algeria), D.F. Laefer (USA), S. Hazourli (Algeria)	102
Nonlinear modelisation of Cd(II) and Pb(II) removal from aqueous solution by <i>Helichrysum arenarium</i> P. Staroń, J. Chwastowski (Poland)	117
Rapid uptake of Pb(II) in water by β-cyclodextrin functionlized sycamore leaf-based biochar Xiangyi Gong, Fengying Wu, Zeya Wang, Dekang Meng, Dajun Ren (China)	129
<i>Agave salmiana</i> as biosorbent of cobalt and cobalt-nickel ionic species from aqueous solutions H. López-González, D.M. Sánchez-Nava, M.T. Olgún (Mexico)	141
Statistical design of experiments for biocomposite (<i>Zea mays</i> sponge/Na-alginate) preparation optimization for Pb(II) removal from aqueous media M. Matallah, H. Gouzi, B. Saidat, H. Fekirini (Algeria), G.A.M. Ali (Egypt), A.V. Soldatov (Russia), Y. Khane, D. Boulerba, A. Zoukel (Algeria)	147
Performance comparison of Mg-loaded amphoteric clays in antibiotics adsorption from aqueous solutions Wen-bin Li, Shu-ni Zhou, Hong-yan Deng (China), A. Touqeer (USA)	159
Effect of amoxicillin releases on the aerobic activity of heterotrophic biomass M. Sakhraoui, R. Zamouche-Zerdazi, M. Bencheikh-Lehocine, A.-H. Meniai (Algeria)	169

Comparative adsorption study of phenol removal using <i>Phoenix dactylifera</i> fiber and its chemically activated carbon A. Khelfaoui, N. Chaouch (Algeria)	182
Response surface methodology for removal of methyl violet dye using <i>Albizia stem bark Lebbeck</i> modified by $\text{Fe}_2(\text{MoO}_4)_3$ nanocomposite from aqueous solutions and assessment relative error by neural network model S. Einolghozati, E. Pournamdari, N. Choobkar, F. Marahel (Iran)	195
Removal of color material by activated carbon of some agricultural waste B. Ikizoglu, N. Mazlum, G. Kanat (Turkey)	209
Filtration membranes of reduced graphene oxide (rGO) for dye removal – production and characterization A.M. Lima, A.M. de Oliveira, T.G. de Sousa, A.C. Pereira, R.B. de Carvalho, W.A. Pinheiro (Brazil)	217
Removal of dyes from aqueous solution using Bis [Hg (2-Apt)]-modified Fe_3O_4 magnetic nanoparticles A.F. Jalal, N.A. Fakhre (Iraq)	226
Fabrication of nano-activated charcoal incorporated sodium alginate-based cross-linked membrane for Rhodamine B adsorption from an aqueous solution S.S. Ayyaril, M.I. Khan, A. Shanableh, S. Bhattacharjee, D.M. de Oliveira (UAE)	239
Decolorization of remazol brilliant violet 5R and brilliant green dyes by <i>Hypnum cupressiforme</i> using response surface methodology–central composite design methodology: toxicity assessment studies by <i>Daphnia magna</i> V. Korkmaz, G.O. Erguvan, M. Tanyol, M. Alatas, N. Yildirim (Turkey)	251
Application of artificial neural networks and response surface methodology for dye removal by a novel biosorbent R. Namdeti, A.A. Joaquin, A.M.A.H.M. Al Amri, K.M.A. Tabook (Oman)	263
Estimation of solids distribution and settling velocity of solid particles in secondary clarifiers: large-scale measurements and numerical modeling Z. Bakiri, S. Nacef (Algeria)	273
Activated carbon from agricultural residues: a review R. Goswami, A.K. Dey (India)	283
Removal of dimethoate from contaminated water using corncob and rice husk as low-cost materials S.U. Karaağac, A.M.R. Abudaia (Turkey)	293
Effects of the dissimilarity of water depth on energy and exergy efficiencies and productivity of single slope solar still coupled to evacuated tubular collectors D. Kumar, R.K. Sharma, D.B. Singh (India)	301
Kinetics, isotherm, and thermodynamics of oil spill removal from seawater onto mango leaves A. Abutaleb (Saudi Arabia)	311
Author Index	319