



Contents

Volume 306

A comparative study of conventional solar stills and modified solar stills using the sound waves based agitating technique R. Immanuel, K. Kannan (India)	1
Improving exergo-enviro-economic parameters and annual productivity of double slope solar desalting unit by incorporating concentrator integrated evacuated tubular collectors G. Nagpal, D.B. Singh (India)	9
Performance study on solar still with agitator, inbuilt condenser and fans using energy, exergy and economic analysis A.K. Rajasekaran, K.M. Kulandiavelu (India)	22
Application of synthesized graphene in the treatment of wastewater M. Berrahal, A. Belouatek (Algeria)	33
<i>Wickerhamomyces anomalus</i> biofilm supported on wood husk and zeolite 13X for the treatment of chromium in aqueous solutions and a tannery effluent M. Asri, R. Ouafi, S. Elabed, W. Bahafid, S.I. Koraichi (Morocco), T. Tavares (Portugal), N. El Ghachtouli (Morocco)	39
Activated carbons from plum stones as efficient adsorbents for the removal of phenol and bisphenol A from aqueous solutions B. Doczekalska, M. Bartkowiak, K. Kuśmierek, A. Świątkowski (Poland)	51
Optimization of heavy metals removal from wastewater by magnetic nano-zeolite using response surface methodology H.A. Shamkhi, M.J. Abdulhasan, S.A. Raheem, H.A.M. Al-Zubaidi, A.S.K. Janabi (Iraq)	63
Equilibrium and kinetic studies on the removal of cadmium(II) by Fe ₃ O ₄ loaded activated carbon prepared from castor seed shell R. Vaithianathan, P. Anitha, R. Sudha, A. Ramachandran (India)	75
Study on the treatment of Cd(II) contaminated wastewater by multiwalled carbon nanotubes/chitosan hydrogel film Jia Wei, Hao Sun, Hongjuan Sha, Jianxin Zhong (China)	89
Hydrothermal carbonization of agro-waste for phosphate and nitrate removal from water environment B. Senthil Rathi, P. Senthil Kumar (India)	99
Color and chemical oxygen demand removal using homogeneous and heterogeneous Fenton oxidation of sugar industry wastewater S. Turk, Y. Asci (Turkey)	112
Kinetic and equilibrium modeling of low-cost adsorbent of untreated watermelon peel for adsorption of zinc(II) N.I. Taib, N.A. Rosli, M.M. Rejab, N.A.F.M. Rosdi, N.A. Abdul Aziz, S.N. Abd Halim (Malaysia)	122
Porous carbon materials derived from biomass waste as efficient electrodes for capacitive deionization desalination Wenquan Wang, Xiuwei Li, Wanshi Zhang, Yan Wang (China)	131
Degradation of trichloromethane by immobilized microspheres of modified red brick Shuying Song, Haiyan Sun, Xue Zhang, Ting He, Yuying Wang, Qian Mo, Chengrui Zhuo (China)	151
UV-visible spectrophotometric method for the determination of ammonia nitrogen using potassium bromate as oxidant Fuhua Jiang, Jiayi Tao (China)	159
A method for alkali hydrolysis modification of PAN/PES/TiO ₂ composite ultrafiltration membranes Xin Liu, Lei Kong, Xu Zhao, Kunpeng Wu, Zhiyong Tan (China)	165

Synthesis of low-cost hydrochar using agro-industrial residues for the removal of pharmaceutical drug chloroquine A.A. de Moura, H. Straioto, W.M. Martins, T.P. de Araújo, A. Diório, R. Bergamasco, M.P. Moisés, M.A.S.D. Barros (Brazil)	178
Facile preparation of apatite nanostructures and their potential application in water treatment Junfeng Zhao, Zichen Wang, Zhi Tang, Meiqi Hui, Shilong Yin (China)	189
Performance of chitosan/PAC enhanced coagulation for low-temperature and low-turbidity Pi River source water Rusheng Jia, Wanfen Wang (China)	199
Remediation of metribuzin (herbicide) from aqueous solution using turnip peel biomass-based zinc oxide nanocomposite M. Zahoor, A. Ullah, Z. Ullah, M. Abbas, A. Shan (Pakistan), R. Ullah (Saudi Arabia), M.N. Umar (UK), S.W. Khan (Pakistan)	208
Synergistic effect of coupling ozonation/adsorption system for toxic dye efficient removal: chemometric optimization by Box Behnken response surface methodology M. Benjelloun, Y. Miyah (Morocco), G.A. Evrendilek (Turkey), A. El Ouali Lalami (Morocco), I. Demir, B. Atmaca (Turkey), S. Ssouni, S. Lairini, R. Bouslamti (Morocco)	220
Utilization of Mangifera indica leaves powder as a cost-effective adsorbent for the removal of eosin yellow from wastewater Mahreen Iqbal, S. Zafar (Pakistan), M.I. Khan (UAE), S. Shahida, H. ur Rehman, Mahwish Iqbal (Pakistan), A. Shanableh (UAE), T. Javed (Pakistan)	236
Adsorption of anionic azo dye from aqueous wastewater using zeolite NaX as an efficient adsorbents R.H. Khudhur, N.S. Ali, E.H. Khader, N.S. Abbood, I.K. Salih, T.M. Albayati (Iraq)	245
Author Index	253