

**Volume 56 Issue 1**

Impact of inflow conditions on activated sludge filterability and membrane bioreactor (MBR) operational performance P. Krzeminski (Oslo, Norway and Delft, The Netherlands), J.H.J.M. van der Graaf (Deventer, The Netherlands) and J.B. van Lier (Delft, The Netherlands) .....	1
Suitability of conventional and membrane bioreactor system in textile mill effluent treatment S. Prabha, A.L. Ramanathan (New Delhi, India), A. Gogoi, P. Das, J.P. Deha (Sonitpur, India), V.K. Tayagi (Sendai, Japan) and M. Kumar (Sonitpur, India) .....	14
Optimization and effect of powdered activated carbon addition on commingled chemical industrial wastewater treatment in a sequencing batch reactor Dong Wang, Meng Li, Can Wang and Min Ji (Tianjin, China) .....	24
Application of central composite design approach for dairy wastewater treatment by electrocoagulation using iron and aluminium electrodes: modeling and optimization G. Varank and M.E. Sabuncu (Istanbul, Turkey) .....	33
Sorption of non-ionic organic pollutants onto immobilised humic acid P. Iovino, V. Leone, S. Salvestrini and S. Capasso (Caserta, Italy) .....	55
The use of the dose gradient method for evaluating reverse osmosis membrane scale inhibitors Kecheng Liu (Shijiazhuang), Jiaqiang Wei (Wuhan), Xiao Long (Shijiazhuang) and Baiqing Zhou (Wuhan, China) .....	63
Experimental studies on thermal spray-coated horizontal tubes for falling film evaporation in multi-effect desalination system R. Abraham and A. Mani (Chennai, India) .....	71
Fast artificial neural network (FANN) modeling of Cd(II) ions removal by valonia resin U. Yurtsever, M. Yurtsever, İ.A. Şengil and N. Kıratlı Yılmazçoban (Sakarya, Turkey) .....	83
Thermodynamic properties of dye removal from colored textile wastewater by poly(propylene imine) dendrimer B. Hayati (Sanandaj), M. Arami (Tehran), A. Mleki (Sanandaj) and E. Pajootan (Tehran, Iran) .....	97
Amine functionalized magnetic carbon nanotube: synthesis and binary system dye removal N.M. Mahmoodi, F. Bagherpour and E. Nariyan (Tehran, Iran) .....	107
Decolorization of Reactive Black 5 by persulfate oxidation activated by ferrous ion and its optimization T. Satapanajaru, M. Yoo-iam, P. Bongprom and P. Pengthamkeerati (Bangkok, Thailand) .....	121
Using pistachio shell for Remazol Red removal from aqueous solutions: equilibrium, kinetics and thermodynamics B. Armagan (Istanbul) and F. Toprak (Ankara, Turkey) .....	136
Biosorption potential assessment of modified pistachio shell waste for methylene blue: thermodynamics and kinetics study M.A. Khan, Z.A. Al Othman (Riyadh, Saudi Arabia), M. Kumar (Dublin, Ireland), M.S. Ola and M.R. Siddique (Riyadh, Saudi Arabia) .....	146
Photocatalytic decolorization of methylen blue by an immobilized TiO <sub>2</sub> film under visible light irradiation: optimization using response surface methodology (RSM) A.H. Jawad (Shah Alam and Arau), A.F.M. Alkarkhi (Minden) and N.S. Abdul Mubarak (Shah Alam, Malaysia) .....	161
Degradation of methyl orange through synergistic effect of Cu/Cu <sub>2</sub> O nanoporous composite and ultrasonic wave Huawei Jiang (Jinan and Yantai), Jie Lia, Zhen Mu and Haoran Geng (Jinan, China) .....	173
Photocatalytic treatment of wastewater containing Rhodamine B dye via Nb <sub>2</sub> O <sub>5</sub> nanoparticles: effect of operational key parameters F. Hashemzadeh, R. Rahimi, A. Gaffarinejad, V. Jalalat (Tehran) and S. Safapour (Tabriz, Iran) .....	181

Biosorption of Cr(VI) using a novel microalga <i>Rhizoclonium hookeri</i> : equilibrium, kinetics and thermodynamic studies K. Kayalvizhi, K. Vijayaraghavan and M. Velan (Chennai, India) .....	194
Novel Cr(III) surface magnetic ion-imprinted materials based on graphene oxide for selective removal of Cr(III) in aqueous solution Huai Li (Changchun), Jianzheng Li (Harbin) and Long Cheng (Changchun and Beijing, China) .....	204
Solid phase extraction of lithium ions from water samples using K-birnessite with layer-structure material form (KBRLSM) H. Ciftci and C. Er (Kirsehir, Turkey) .....	216
Adsorption of Pb(II) from aqueous solutions using corn straw Dongmei Jia and Changhai Li (Binzhou, China) .....	223
Removal of tungsten from electroplating wastewater by acid- and heat-treated sepiolite Yufeng Wang (Guangzhou, China and Fredericton, Canada), Kefu Chen, Lihuan Mo, Jun Li and Jun Xu (Guangzhou, China) .....	232
Novel Co/Mo layered double hydroxide: synthesis and uptake of Fe(II) from aqueous solutions (Part 1) M.S. Mostafa, A.A. Bakr, Gh. Eshaq (Cairo) and M.M. Kamel (Assuit, Egypt) .....	239
Kinetics of uptake of Fe(II) from aqueous solutions by Co/Mo layered double hydroxide (Part 2) A.A. Bakr, M.S. Mostafa, Gh. Eshaq (Cairo) and M.M. Kamel (Assuit, Egypt) .....	248
Effective removal of cadmium ions from aqueous solution using chitosan-stabilized nano zero-valent iron Hongfei Lu, Xueliang Qiao, Wei Wang, Fatang Tan, Fazhe Sun, Zunqi Xiao and Jianguo Chen (Wuhan, China) .....	256
Evaluation of the Cd removal efficacy from aqueous solutions using titania PVA-alginate beads A. Idris and Z. Majidnia (Skudai, Malaysia) .....	266
Adsorption of sulfate from natural water on calcined Mg-Fe layered double hydroxides Jiming Liu, Xiuping Yue, Yang Yu and Yu Guo (Shanxi, China) .....	274
Author Index .....	284