



Low-cost water treatment system using submerged membrane filtration in developing countries T. Miyoshi (Kobe, Japan), T. Setiadi, A.J. Effendi (Bandung, Indonesia), H. Maeda, T. Tsukaraha, H. Yi, H. Jun (Tokyo), M. Saito and H. Matsuyama (Kobe, Japan)	18101
CFD simulation of heat and mass transport for water transfer through hydrophilic membrane in direct-contact membrane distillation process M. Hasanizadeh (Tehran, Iran), P. Jafari (Houston, TX, USA), B. Farshighazani and M.K. Moraveji (Tehran, Iran)	18109
Construction and performance characteristics of polymeric membrane electrode based on ${}^i\text{Pr}_2\text{Ph-DAD}$ for the selective determination of Fe^{3+} ion Haixia Wang, Zhenning Yan, Shuangyan Zhang, Xiangli Wen and Yunxia Kang (Zhengzhou, China)	18120
A review on pumice for water and wastewater treatment D.İ. Çifçi and S. Meriç (Çorlu, Turkey)	18131
Preparation and evaluation of hydrogel composites based on starch-g-PNaMA/eggshell particles as dye biosorbent H. Bakhshi (Tehran) and A. Darvishi (Karaj, Iran)	18144
Evaluation on the efficiency of ethylenediaminetetraacetic acid (EDTA)-modified rice husk as a low-cost sorbent for various dyes removal under continuous flow condition Siew-Teng Ong (Kampar) and Weng-Nam Lee (Kuala Lumpur, Malaysia)	18157
Contribution of hydroxyl radicals to the degradation of Acid Orange 7 by fly ash under ultrasonic irradiation Guoting Li, Yanmin Feng, Binbin Wang and Minduo Wang (Zhengzhou, China).....	18168
Equilibrium, kinetic and thermodynamic study of acid yellow-34 adsorption onto <i>Cedrus deodara</i> sawdust M.S. Abbas and R. Ahmad (Chakdara, Pakistan)	18175
Removal of an azo dye (Alizarin yellow) in homogeneous medium using direct photolysis, acetone/UV, $\text{H}_2\text{O}_2/\text{UV}$, $\text{S}_2\text{O}_8^{2-}/\text{UV}$, $\text{H}_2\text{O}_2/\text{S}_2\text{O}_8^{2-}/\text{UV}$, and $\text{S}_2\text{O}_8^{2-}/\text{heat}$ S. Aliouche, K. Djebbar and T. Sehili (Constantine, Algeria)	18182
Nanofiltration performance in the removal of dye from binary mixtures containing anthraquinone dyes N. Askari, M. Farhadian, A. Razmjou and H. Hashtroodi (Isfahan, Iran)	18194
Anionic surfactant-modified rice straw for removal of methylene blue from aqueous solution A. Ebrahimian Pirbazari, B. Fakhari Kisom and M. Ghamangiz Khararoodi (Fouman and Rezvanshahr, Iran)	18202
Degradation of patent blue V dye using modified photocatalytic reactor based on solar and UV irradiations R.R. Dalbhanjan, N.S. Pande, B.S. Banerjee (Pune), S.P. Hinge (Mumbai), A.V. Mohod (Pune) and P.R. Gogate (Mumbai, India).....	18217
Assessment of nutrient content of raw water close to water treatment plants located in Baghdad City E. Shakir (Baghdad, Iraq)	18229
Effect of bio-carrier filling rate on oxygen transfer coefficient of different diffusers in MBBR process Lifeng Sun, Feng Zhang, Changqing Liu, Xuejun Bi, Lihua Cheng, Shuai Li, Ying Liu (Qingdao, China) and Zhong Qiao (Ann Arbor, MI, USA)	18234
Oxygen control and improved denitrification efficiency by dosing ferrous ions in the anoxic reactor P. Viotti (Rome), M.C. Collivignarelli (Pavia), E. Martorelli (Rome) and M. Raboni (Castellanza, Italy)	18240
Thermodynamic study of magnesium sulfate crystallization: application of Pitzer model and quinary diagrams F. Hajbi, H. Hammi (Soliman, Tunisia), R. Solimando (Nancy, France) and A. M'nif (Soliman, Tunisia).....	18248
Preparation of polymeric aluminum ferric chloride (PAFC) coagulant from fly ash for the treatment of coal-washing wastewater Long Yan, Yufei Wang, Jian Li, Huidong Shen, Chao Zhang and Tiantian Qu (Yulin, China)	18260

Removal of Rhodamine 6G from wastewater using solar irradiations in the presence of different additives N.S. Bhaskar, A.D. Kadam, J.J. Biwal, P.M. Diwate, R.R. Dalbhanjan, D.D. Mahale, S.P. Hinge, B.S. Banerjee, A.V. Mohod (Pune) and P.R. Gogate (Mumbai, India).....	18275
A study on adsorptive removal of DMAZ from aqueous solutions by ZSM-5, NaY zeolites, and activated carbon: kinetic and isotherm S. Ghanbari Pakdehi and B. Vaferi (Tehran, Iran)	18286
DOM fractionated from pig waste affecting the solubility of PAHs along with non-ionic surfactant Jia-Peng Hu (Wuyishan and Nanchang), Dai-She Wu (Nanchang), Jui-Yeh Rau, Rui-Lai Liu, Jun-Shao Liu (Wuyishan, China) and Wen-Liang Lai (Pingtung, Taiwan)	18293
Adsorption of PAEs from aqueous solution by modified zeolites Yufeng Xu (Handan), Long Wang (Chongqing), Simin Li, Wei Zhang, Qiang Jing and Jinghan Cao (Handan, China).....	18300
Optimization study for maximizing 2,4-dichlorophenol degradation by <i>Kocuria rhizophila</i> strain using response surface methodology and kinetic study B.P. Patel and A. Kumar (Rourkela, India)	18314
Potential of environmental-friendly, agro-based material <i>Strychnos potatorum</i> , as an adsorbent, in the treatment of paint industry effluent S. Vishali, P. Rashmi (Chennai) and R. Karthikeyan (Thanjavur, India)	18326
Influence of salinity on COD measurements in coastal water management Zhaoran Li (Yantai and Beijing), Yanqing Sheng, Wenjing Shi, Qiyao Sun (Yantai, China) and R.J.G. Mortimer (Southwell, UK)	18338
Synthesis, estimation of stability in different media, electrochemical properties and potentiometric studies of PVC-based NP ion-exchange composite membrane for desalination and waste water treatment applications M.M.A. Khan, Rafiuddin (Aligarh, India).....	18346
The preparation of a cross-linked cerium (III)-loaded alginate bead adsorbent for the removal of phosphate from wastewater Heng Yang, Qi Zhou, Wenjun Luo, Chunjie Yan and Chunyu Zhou (Wuhan, China)	18354
Optimization of ranitidine hydrochloride removal from simulated pharmaceutical waste by activated charcoal from mung bean husk using response surface methodology and artificial neural network S. Mondal, K. Aikat and G. Halder (Durgapur, India).....	18366
Clove oil nanoemulsion as an effective antibacterial agent: Taguchi optimization method M.H. Shahavi (Babol, Iran and Aarhus, Denmark), M. Hosseini, M. Jahanshahi (Babol, Iran), R.L. Meyer (Aarhus, Denmark) and G.N. Darzi (Babol, Iran)	18379
Heterogeneous photocatalytic degradation, mineralization and detoxification of ampicillin under varying pH and incident photon flux conditions C.B. Ozkal, A. Koruyucu and S. Meriç (Çorlu, Turkey)	18391
Removal of fluoride and turbidity from semiconductor industry wastewater by combined coagulation and electroflotation S. Aoudj (Algiers), A. Khelifa (Blida), N. Drouiche and M. Hecini (Algiers, Algeria)	18398
Removal of Pb(II) and Cr(VI) by laterite soil from synthetic waste water: single and bi-component adsorption approach S. Mitra, L.S. Thakur, V.K. Rathore and P. Mondal (Roorkee, India)	18406
Selective sorption of Pb(II) from aqueous solution using an imprinted silica-supported sorbent based on the solgel imprinting technique Yuanwei Liu (Binzhou, China)	18417
Synthesis of 8-Hydroxyquinoline-functionalized polyglycidyl methacrylate resin and its efficient adsorption and desorption for Pb(II) Chunping Liu, Xiaoli Sun, Lin Liu, Junshen Liu, Minyi Qi and He An (Yantai, China)	18425
Removal of Cr(VI) from synthetic aqueous solutions by filamentous green algae <i>Spirogyra porticalis</i> H. Sayyaf, G.R. Mostafaii, L. Iranshahi, G.A. Mosavi and E. Aseman (Kashan, Iran)	18438
Preparation, characterization, and adsorption properties of magnetic multi-walled carbon nanotubes for simultaneous removal of lead(II) and zinc(II) from aqueous solutions Lili Jiang (Shenyang and Lanzhou), Haitao Yu, Xiaomeng Zhou, Xingang Hou (Lanzhou), Zongshu Zou (Shenyang), Shujun Li, Chuantong Li and Xiayan Yao (Lanzhou, China)	18446
Chitosan-/PVA-coated magnetic nanoparticles for Cu(II) ions adsorption A. Altinisik and K. Yurdakoc (Izmir, Turkey)	18463

Equilibrium, kinetics, and mechanism of lead adsorption using zero-valent iron coated on diatomite N. Pojananukij, K. Wantala, S. Neramittagapong and A. Neramittagapong (KhonKaen, Thailand)	18475
Biosorption performance of the lichen biomass (<i>Diploicia canescens</i>) for the removal of nickel from aqueous solutions Y. Hannachi and T. Boubaker (Monastir, Tunisia)	18490
Electrokinetic removal of aluminum and chromium from industrial wastewater electrocoagulation treatment sludge M. Cherifi, S. Hazourli (Annaba, Algeria), S. Pontvianne, F. Lopicque and J.-P. Leclerc (Nancy, France)	18500
Equilibrium, isotherm, and kinetic studies of zinc(II) adsorption onto natural hematite A. Sattari, M. Kavousi, M.M. Salarirad (Tehran) and H. Jalayeri (Shahrood, Iran)	18516
Tannin modified aminated silica as effective absorbents for removal of light rare earth ions in aqueous solution Yue-yue Shen, Rui-lin Yang, Yang Liao, Jun Ma, Hui Mao and Shi-lin Zhao (Chengdu, China).....	18529
Adsorption of heavy metal cadmium(II) ions using chemically modified corncob: mechanism, kinetics, and thermodynamics Hai Lin, Jinmo Xu, Yingbo Dong, Liang Wang, Weijuan Xu and Yihua Zhou (Beijing, China)	18537
Adsorption kinetics, isotherms, and thermodynamic studies for Hg ²⁺ adsorption from aqueous medium using alizarin red-S-loaded amberlite IRA-400 resin Mu. Naushad (Riyadh, Saudi Arabia), S. Vasudevan (Karaikudi, India), G. Sharma, A. Kumar (Solan, India) and Z.A. AlOthman (Riyadh, Saudi Arabia).....	18551
Preparation and characterization of polypropylene fiber-grafted polybutylmethacrylate as oil sorbent Wenbo Chai, Xiaoyan Liu, Xinying Zhang, Beibei Li, Tiantian Yin and Junchen Zou (Shanghai, China).....	18560
Author Index	18572