

Modelling the NOM uptake by anion exchange resins in drinking water plants M. Pürschel, V. Ender (Zittau) and E. Worch (Dresden, Germany) .....	4029
Brackish water desalination in the Algerian Sahara—Plant design considerations for optimal resource exploitation D.E. Moudjeber (Chlef and Mostaganem, Algeria), H. Mahmoudi (Chlef, Algeria), M. Djennad (Mostaganem, Algeria), D.C. Sioutopoulos, S.T. Mitrouli and A.J. Karabelas (Thessaloniki, Greece) .....	4040
Development strategies and solar thermal energy utilization for water desalination systems in remote regions: a review A.E. Kabeel and E.M.S. El-Said (Tanta, Egypt) .....	4053
RO membrane treatment of domestic grey-water containing different detergent types P.S. Singh, P. Ray, J.J. Trivedi, A. Prakash Rao, K. Parashuram and A.V.R. Reddy (Bhavnagar, India) .....	4071
A decision support tool for technical processes optimization in drinking water treatment B. Lamrini, E.K. Lakhal (Marrakech, Morocco) and M.V. Le Lann (Toulouse, France) .....	4079
Emerging nanotechnology-based methods for water purification: a review T. Ahmed (Abbottabad and Islamabad), S. Imdad, K. Yaldram, N.M. Butt (Islamabad) and A. Pervez (Abbottabad, Pakistan) .....	4089
Influence of relaxation frequency on membrane fouling control in submerged anaerobic membrane bioreactor (SAnMBR) S. Anop (Bangkok, Thailand), P. Sridang (Muang Nakhonpathom, Songkhla and Bangkok, Thailand), U. Puetpaiboon (Songkhla, Thailand) and A. Grasmick (Montpellier, France) .....	4102
Coagulation–floculation of anaerobically treated sugarcane stillage I. Junqueira Rodrigues, L. Tadeu Fuess, L. Biondo, C. Antonelli Santessoa, M. Loureiro Garcia (São Paulo, Brazil) .....	4111
A review of the upflow anaerobic sludge blanket reactor C.C. Nnaji (Nsukka, Nigeria) .....	4122
Inhibiting sulfate reducing bacteria activity by denitrification in an anaerobic baffled reactor: influencing factors and mechanism analysis Z. Zhang, G. Liu, Y. Feng (Harbin), Z. Chen (Daqing), P. Zhan and N. Ren (Harbin, China) .....	4144
Scenario analysis and statistical analysis of simulation results of operation of activated sludge waste water treatment plants S.W.H. Van Hulle and M.C. Ciocci (Kortrijk, Belgium) .....	4154
Flow patterns of multi-soil-layering systems Y.-D. Guan, D.-F. Xu, X. Chen (Nanjing), A.-C. Luo (Hangzhou), H. Fang and Y.-Z. Song (Nanjing, China) .....	4165
Scaling of the potable water network of the Touggourt city (Algeria) B. Remini (Blida) and L. Sayah (Ouargla, Algeria) .....	4170
Risk assessment of agricultural pollution on groundwater quality in the high valley of Tadjenanet-Chelghoum Laid (Eastern Algeria) A. Khedidja and A. Boudoukha (Batna, Algeria) .....	4174
Effect of synergistic sorption of Cr(VI) and Mn(II) in aqueous solution using magnetic nanoparticles Y. Liu, S.-H. Wu, C. Hua and X. Han (Tianjin, China) .....	4183
Hexavalent chromium reduction by <i>Escherichia coli</i> in the presence of ferric iron J. Tang, Y. Hu, S.A. Baig, T. Sheng and X. Xu (Hangzhou, China) .....	4190
Adsorptive remediation of Cu(II) and Cd(II) contaminated water using manganese nodule leaching residue N.S. Randhawa (Jamshedpur), N.N. Das (Baripada) and R.K. Jana (Jamshedpur, India) .....	4197
Adsorption behavior of cadmium onto natural chabazite: batch and column investigations S.M. Yakout and E.H. Borai (Cairo, Egypt) .....	4212
Chemically modified natural cotton fiber: a low-cost biosorbent for the removal of the Cu(II), Zn(II), Cd(II), and Pb(II) from natural water Á.G. Paulino, A.J. da Cunha, R.V. da Silva Alfaya, A.A. da Silva Alfaya (Londrina, Brazil) .....	4223
The biosorption of Pb <sup>2+</sup> , Cd <sup>2+</sup> and Cu <sup>2+</sup> from aqueous solution by fruiting bodies and spores of <i>Oudemansiella radicata</i> Y. Hu, Y. Lan, J. Dai, L. Ma and H. Xu (Chengdu, China) .....	4234

Kinetics of cadmium adsorption by smectite of Oued Tfal (Gafsa Basin) M. Mhamdi, E. Elaloui (Gafsa) and M. Trabelsi-Ayadi (Bizerte, Tunisia) .....	4245
Application of <i>O</i> -phenylacetyl $\beta$ -CD as a carrier for selective transport of lead(II) across polymer inclusion membranes C.A. Kozłowski, A. Nowik-Zajac (Czestochowa) and P. Kurcok (Zabrze, Poland).....	4257
Removal of lead ions from aqueous solutions using intercalated tartrate-Mg–Al layered double hydroxides Y. Yasin, M. Mohamad, A. Saad, A. Sanusi and F.H. Ahmad (Shah Alam, Malaysia) .....	4266
Removal of Ca(II) from aqueous solutions by cellulose modified with calix[4]arene Y. Zhou, X. Hu and M. Zhang (Henan, China) .....	4273
Influence of plant species and submerged zone with carbon addition on the removal of metals by stormwater biofilters Z. Zhang (Nanjing, China and Crawley, Australia), Z. Rengel (Crawley, Australia), T. Liaghati, A. Torre and K. Meney (Perth, Australia) .....	4282
Synthesis of aluminum-substituted tobermorite and the application on the phosphorus removal from waste water L. Li, Z.X. Wu, Y.X. Li, H.L. Sha and G.W. Song (Wuhan, China) .....	4292
The feasibility of adopting zeolite in phosphorus removal from aqueous solutions Y. Zhang, X. Kou, H. Lu and X. Lv (Qingdao, China) .....	4298
Hydrothermal synthesis of easy-recycled tobermorite/SiO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> composites for efficient treatment of phosphorus in wastewater S. Zhong, H. Sha, Y. He and G. Song (Wuhan, China).....	4305
Quantitative XRD analysis of the dehydration–hydration performance of (Na <sup>+</sup> , Cs <sup>+</sup> ) exchanged smectite M. Ammar, W. Oueslati, H. Ben Rhaïem and A. Ben Haj Amara (Zarzouna, Tunisia).....	4314
Floc growth kinetics in magnesium hydroxide coagulation process J. Zhao, W. Li, X. Jiao, Y. Lai and X. Guo (Tianjin, China).....	4334
The influence of polychromatic light on methomyl degradation in TiO <sub>2</sub> and ZnO aqueous suspension A. Tomašević, D. Mijin, S. Gašić (Belgrade) and E. Kiss (Novi Sad, Serbia).....	4342
Removal of diazinon and 2,4-dichlorophenoxy-acetic acid (2,4-D) from aqueous solutions by granular activated carbon M. Pirsahab, A. Dargahi (Kermanshah), S. Hazrati and M. Fazlzadehdavil (Ardabil, Iran) .....	4350
Modification of carbon nanotubes with cationic surfactant and its application for removal of direct dyes J. Ghobadi, M. Arami, H. Bahrami and N.M. Mahmoodi (Tehran, Iran) .....	4356
Fluoride removal from aqueous solution by functionalized-polyacrylonitrile coated with iron oxide nano particles: characterization and sorption studies J. Nouri, R. Nabizadeh, M. Jahangiri-rad, M. Yunesian and F. Moattar (Tehran, Iran) .....	4369
Variation of extracellular polymeric substances (EPS) and specific resistance to filtration in sludge granulation process to the change of influent organic loading rate K.S. Kim (Gyeonggi-Do), M. Sajjad, J. Lee, J. Park and T. Jun (Daejeon, Korea).....	4376
Cationic surfactant hemimicelle on alginate gel for removing bisphenol A from aqueous solution J. Zhu, M. Dai, S. He, Q. Lai and R. Gong (Wuhu, China) .....	4388
Removal of a mix of endocrine disrupters from different natural matrices by ozone/activated carbon coupling process T. Ferreira de Oliveira, B. Cagnon, O. Chedeville, Henri Fauduet (Orléans, France).....	4395
Removal of 4-chlorophenol in sequencing batch reactor with and without granular activated carbon C. Thakur, A. Dembla, V.C. Srivastava and I.D. Mall (Roorkee, India) .....	4404
Effects of different levels of ozone on ammonia, nitrite, nitrate, and dissolved organic carbon in sterilization of seawater P. Rahmadi and Y.R. Kim (Busan, Korea).....	4413
Removal of volatile fatty acid in landfill leachate by the microwave-hydrothermal method L. Yang, Z. Chen, J. Yang, Y. Liu, J. Wang, Y. Yu and X. Gao (Wuhan, China) .....	4423
Adsorption of ciprofloxacin on surface functionalized superparamagnetic porous silicas P. Hongsawat, P. Prarat, C. Ngamcharussrivichai and P. Punyapalakul (Bangkok, Thailand) .....	4430
Use of a high density, low temperature, bubble column for thermally efficient water sterilization M. Shahid, R.M. Pashley and R.A.F.M. Mohklesur (Canberra, Australia).....	4444
Lanthanides diffusion through pH-responsive reverse osmosis membranes B. El-Gammal (Cairo, Egypt).....	4453
Modeling organics biodegradation and ammonia nitrification by entrapped mixed microbial cell carriers C.-C. Liu, K.-K. Ng, C.-J. Wu, C.-F. Lin (Taipei, Taiwan), P.A. Hong (Salt Lake City, UT, USA) and P.-Y. Yang (Honolulu, HI, USA) .....	4462

Dielectric barrier discharge induced the degradation of the emerging contaminant ibuprofen in aqueous solutions B. Zheng, C. Li (Zhengzhou), J. Zhang and Z. Zheng (Shanghai, China).....	4469
Study on dissolved organic nitrogen (DON) removal by activated carbon adsorption L. Gu (Chongqing), J. Xu (Xiamen), C. Ding (Chongqing), X. Yu, H. Lin (Xiamen), Q. He and J. Li (Chongqing, China) .....	4476
Adsorption/desorption of BTEX on activated carbon prepared from rice husk S.M. Yakout (Riyadh, Saudi Arabia) and A.A.M. Daifullah (Cairo, Egypt) .....	4485
Equilibrium modeling for adsorptive removal of Indosol Black NF dye by low-cost agro-industrial waste: batch and continuous study S. Sadaf and H.N. Bhatti (Faisalabad, Pakistan) .....	4492
Utilization of bottom ash as a low-cost sorbent for the removal and recovery of a toxic halogen containing dye eosin yellow J. Mittal, D. Jhare (Bhopal), H. Vardhan (Dadri) and A. Mittal (Bhopal, India) .....	4508
Preparation and characterization of NZVI-MCM-48 mesoporous molecular sieves and its mechanism for treatment of methylene blue wastewater J. Pan (Nanjing and Shanghai), Y. Cheng (Jingdezhen) and Y. Wei (Nanjing, China) .....	4520
Enhanced adsorption of methylene blue on modified silica gel: equilibrium, kinetic, and thermodynamic studies A.K. Kushwaha (Phagwara and Allahabad), N. Gupta and M.C. Chattopadhyaya (Allahabad, India).....	4527
Heterogeneous Fenton process using iron-containing waste (ICW) for methyl orange degradation: process performance and modeling M.E.M. Ali, T.A. Gad-Allah, E.S. Elmolla and M.I. Badawy (Cairo, Egypt).....	4538
A comparison of electrolysis and Fenton reaction pretreatment methods for dye wastewater F. Chen, C. Yang and J. Wang (Hangzhou, China) .....	4547
Applicability of a new pre-hydrated industrial grade polyaluminium salt for the decolourisation of textile wastewater A.K. Verma, P. Bhunia and R.R. Dash (Odisha, India).....	4553
Treatment of printing and dyeing wastewater using MBBR followed by membrane separation process B. Dong (Shanghai), H. Chen (Henan), Y. Yang, Q. He and X. Dai (Shanghai, China).....	4562
Low-cost synthesis of mesoporous Zn(II)/Sn(II) mixed oxide nanoparticles for the adsorption of dye and heavy metal ion from aqueous solution K. Yogesh Kumar, H.B. Muralidhara (Bangalore), Y. Arthoba Nayaka (Shankaraghatta) and J. Balasubramanyam (Bangalore, India).....	4568
Removal of Terasil Red R dye by using Fenton oxidation: a statistical analysis Y.S. Woo, M. Rafatullah, A.F.M. Al-Karkhi and T.T. Tow (Penang, Malaysia) .....	4583
Ru(III)-catalyzed permanganate oxidation of bisphenol A J. Zhang, X. Guan (Harbin, China) .....	4592
Author Index .....	4602