

Formation of genotoxic compounds by medium pressure ultraviolet treatment of nitrate-rich water A.J. Martijn (Velsbroek and Leeuwarden), M.G. Boersma, J.M. Vervoort, I.M.C.M. Rietjens (Wageningen) and J.C. Kruithof (Leeuwarden, The Netherlands)	6275
Wastewater treatment by ultrafiltration system, considering the effects of operating conditions: experimental and modeling A. Reyhani and M. Hemmati (Tehran, Iran)	6282
Productivity enhancement of single slope solar still using immersion-type water heater and external cooling fan during summer A.Z. Al-Garni (Dhahran, Saudi Arabia)	6295
Improving the design, modeling and simulation in dynamic mode of a solar still K. Zarzoum, K. Zhani (Sfax, Tunisia) and H. Ben Bacha (Sfax, Tunisia and Alkharj, Saudi Arabia)	6304
Process optimization of freeze desalination of brine using HybridICETM pilot plant C.M. Zvinowanda, N.N. Zikalala, T. Mtombeni, J.P. Maree, W.J. Louw (Pretoria, South Africa) and F. Oosthuizen (Eggenbek, Germany)	6315
Seawater biofiltration pre-treatment system: comparison of filter media performance A. Shrestha, S. Jeong, S. Vigneswaran and J. Kandasamy (Sydney, Australia)	6325
Numerical studies on the pressure-retarded osmosis (PRO) system with the spiral wound module for power generation S.-S. Hong, W. Ryoo, M.-S. Chun, S.O. Lee and G.-Y. Chung (Seoul, Korea)	6333
Erosion probability for biofilm modeling: analysis of trends C.S. Laspidou (Volos, Greece)	6342
Effects of stirring strategies on the sludge granulation in anaerobic CSTR reactor Y.-p. Hou, D.-c. Peng, B.-b. Wang, X.-y. Zhang and X.-d. Xue (Xi'an, China)	6348
Extent of endogenous decay and microbial activity in aerobic stabilization of biological sludge S. Özdemir, D. Uçar, E.U. Çokgör and D. Orhon (Istanbul, Turkey)	6356
Effect of different sludge reduction methods on sludge reduction rates, performance of activated sludge process and urban planning S.-b. Wang (Harbin, China)	6363
Assessment of the performance of a down-flow hanging sponge system for treatment of agricultural drainage water A. Fleifle, A. Tawfik (Alexandria, Egypt), O. Saavedra (Alexandria, Egypt and Tokyo, Japan) and M. Elzeir (Alexandria, Egypt)	6369
A new synthetical process of PVDF derivatives via atom transfer radical graft polymerizations and its application in fabrication of antifouling and antibacterial PVDF ultrafiltration membranes Y. Sui, Z. Wang and C. Gao (Qingdao, China)	6377
A novel combined electrochemical-biological method for non-biodegradable pollutants degradation P. Yao, X. Chen and Z. Shen (Hang Zhou, China)	6389
Study on dewaterability of municipal sludge conditioning by physical conditioners with ultrasonic and magnetic field application Q. Xue and Y.-j. Chen (Wuhan, China)	6396
Application of response surface methodology to water/wastewater treatment using <i>Coccinia indica</i> M.V. Jadhav (Kopargaon) and Y.S. Mahajan (Lonere, Tal-Mangaon, India)	6403
Removal of Pb (II) from aqueous solution by adsorption using activated carbon developed from apricot stone: equilibrium and kinetic L. Mouni (Bouira), L. Belkhiri (Batna), F. Zougaghe and M. Tafer (Bouira, Algeria)	6412
Enhanced lead(II) binding properties of heat-treated cattle-manure-compost-activated carbons M.A.A. Zaini (Johor Bahru, Malaysia), Y. Amano and M. Machida (Chiba, Japan)	6420

Enhancing adsorption of Pb (II) and Cu (II) ions onto chitosan using tri-sodium citrate and epichlorohydrin as cross-linkers Y. Sun, Y. Liu, Y. Yang and J. Li (Xi'an, China)	6430
A comparative study on the removal of lead from industrial wastewater by adsorption onto raw and modified Iranian bentonite (from Isfahan area) B. Sadeghalvad, H.Sh. Karimi, H. Hosseinzadegan and A.R. Azadmehr (Tehran, Iran)	6440
Ferric hydroxide: preparation, characterisation and fluoride removal studies from water M.G. Sujana and S. Anand (Bhubaneswar, India)	6453
Removal and recovery of Cr (VI) by magnetite nanoparticles M.R. Lasheen, I.Y. El-Sherif, D.Y. Sabry, S.T. El-Wakeel and M.F. El-Shahat (Cairo, Egypt)	6464
Molecular weight effect on chromium(VI) retention by poly(N-octyl-4-vinylpyridinium bromide) copolymers C.-B. Esma, D. Zoulikha, B. Kamel Ismet and M. Ali (Tlemcen, Algeria)	6474
Removal of Cd (II) by polystyrene-base chelating resins: adsorption properties and experiences of industrial wastewater treatment Y. Zhang (Lanzhou), Z. Ye (Beijing), L. Wang, L. Yang and Y. Li (Lanzhou, China)	6481
Adsorptive removal of phenol from coke-oven wastewater using Gondwana shale, India: experiment, modeling and optimization K. Sadhu, A. Mukherjee, S.K. Shukla, K. Adhikari and S. Dutta (Durgapur, India)	6492
Phenol removal from aqueous phase by adsorption on activated carbon prepared from paper mill sludge K. Pirzadeh and A.A. Ghoreyshi (Babol, Iran)	6505
A QICAR model for quantifying connection between metal ionic character and biosorption capacity of <i>Pleurotus eryngii</i> N. He, W. Li and H. Xu (Chengdu, China)	6519
Synthesis, characterization, and sorption properties of silica gel-immobilized Schiff base derivatives E. Kir, M. Çelik (Isparta), G. Sevinç (Ankara), F. Karipcin (Nevsehir) and B. Dede (Isparta, Turkey)	6530
Adsorption of perfluorooctanoic acid (PFOA) onto anion exchange resin, non-ion exchange resin, and granular-activated carbon by batch and column P. Chularueangaksorn, S. Tanaka, S. Fujii and C. Kunacheva (Kyoto, Japan)	6542
Kinetics and equilibrium studies on the electrosorption of anions with activated carbon electrodes L. Chang, Y. Zhou and X. Duan (Siping, China)	6549
Lab-scale experiments and model analyses for bacterial removal in flow-through columns containing dolomite S.-J. Park (Anseong), C.-G. Lee and S.-B. Kim (Seoul, Korea)	6556
TiO ₂ photocatalysis: progress from fundamentals to modification technology P. Pattanaik (Angul) and M.K. Sahoo (Shillong, India)	6567
Photocatalytic treatment of pharmaceutical industry wastewater over TiO ₂ using immersion well reactor: synergistic effect coupling with ultrasound A. Verma, I. Chhikara and D. Dixit (Patiala, India)	6591
Performance of removal of salicylic acid residues from aqueous solution based on the magnetic TiO ₂ nanocomposites W. Zhang, J. Li, Z. Lu, Y. Luo (Zhenjiang), F. Chen (Xi'an), P. Huo, J. Pan and Y. Yan (Zhenjiang, China)	6598
Assessment of atomic force and scanning electron microscopes for characterization of commercial and electrospun nylon membranes for coke removal from wastewater E. Mirtalebi, M.M.A. Shirazi (Omidieh, Iran), A. Kargari (Mahshahr, Iran), M. Tabatabaei (Karaj, Iran) and S. Ramakrishna (Singapore)	6611
Impact of various physico-chemical parameters on spontaneous nucleation of struvite (MgNH ₄ PO ₄ ·6H ₂ O) formation in a wastewater treatment plant: kinetic and nucleation mechanism E. Ariyanto (Perth, Australia) and Palembang, Indonesia), H.M. Ang and T.K. Sen (Perth, Australia)	6620
Feasibility of different carbon sources for growing microbial biomass in aerobic batch reactor and their application for dye removal from contaminated wastewater K. Kumar, M.G. Dastidar and T.R. Sreekrishnan (New Delhi, India)	6632
Return chemical sludge employed in enhancement of phosphate removal from wastewater B. Xi, Y. Zhao, L.-y. Zhang, X. Xia, Z. Luan, X. Peng and W. Lv (Beijing, China)	6639
Elimination of phosphorous from phosphorus-rich farmyard wastewater using reeds bed system containing steel furnace slag Y. Li, J. Yang, X. Zhou, G. Xu and X. Wang (Xinxiang, China)	6648

Effects of salinity on removal of nitrogen and phosphorus from eutrophic saline water in planted <i>Lythrum salicaria</i> L. microcosm systems H. Zhao, F. Wang, M. Ji and J. Yang (Tianjin, China)	6655
Optimization of photocatalytic degradation of naphthalene using nano-TiO ₂ /UV system: statistical analysis by a response surface methodology V. Mahmoodi and J. Sargolzaei (Mashhad, Iran)	6664
Removal of cationic dye from the aqueous solutions by using the natural clay of Maghnia (Algeria) A. Hadj Said (Tiaret, Algeria), M.H. Manero (Toulouse, France) and E.-H. Belarbi (Tiaret, Algeria)	6673
Optimization of color removal from two types of anionic dyes by electrocoagulation/flotation in a batch agitated vessel G.R. Mohammed, T.M. Zewail and Y.A. El-Tawail (Alexandria, Egypt)	6684
Discoloration of aqueous textile dyes solution by <i>Phanerochaete chrysosporium</i> immobilized in modified PVA matrix A. Idris, M.S. Suhaimi, N.A.M. Zain, R. Rashid and N. Othman (Johor Bahru, Malaysia)	6694
Application of natural clay as a potential adsorbent for the removal of a toxic dye from aqueous solutions S. Sahoo, Uma (Varanasi), S. Banerjee (Allahabad), Y.C. Sharma (Varanasi, India)	6703
Adsorption of methylene blue onto papaya leaves: comparison of linear and nonlinear isotherm analysis R.R. Krishni (Penang), K.Y. Foo (Kubang Kerian) and B.H. Hameed (Penang, Malaysia)	6712
Adsorption of methylene blue on activated carbon fiber prepared from coconut husk: isotherm, kinetics and thermodynamics studies H.A. Al-Aoh, R. Yahya, M. Jamil Maah and M. Radzi Bin Abas (Kuala Lumpur, Malaysia)	6720
Kinetics study and neural network modeling of degradation of Naphtol Blue Black by electro-Fenton process: effects of anions, metal ions, and organic compound C. Bouasla (Annaba and Algiers), M.E.-H. Samar and H. Bendjama (Annaba, Algeria)	6733
Synthesis of ZnO nano-sono-catalyst for degradation of reactive dye focusing on energy consumption: operational parameters influence, modeling, and optimization H. Daraei, A. Maleki (Sanandaj), A.H. Mahvi (Tehran), Y. Zandsalimi (Sanandaj), L. Alaei (Tehran) and F. Gharibi (Sanandaj, Iran)	6745
Biosorption of toxic acidic dye–Acid Blue 25, by aquatic plants M. Kousha, E. Daneshvar, A.R. Esmaili, H. Zilouei and K. Karimi (Isfahan, Iran)	6756
A study on the enhancement of sonochemical degradation of eosin B using other advanced oxidation processes M. Goel, A. Das, K. Ravikumar (Thanjavur, India) and A. Asthana (Sheffield, UK)	6770
Study on COD removal mechanism of aminosilicone polymer microemulsion wastewater under Fenton oxidation conditions S. Yang, Z. Liang, H. Yu, X. Li, K. Lu and Y. Chen (Hangzhou, China)	6777
Oxidation of the insecticide dimethoate by Fenton and solar photo-Fenton processes using a lab-scale continuous flow reactor M. Ben Brahim, R. Abdelhédi and Y. Samet (Sfax, Tunisia)	6784
Designing a cost-effective and dual-functional muslin-based anion exchanger for defluoridation S. Kumar, G.S. Chauhan, R. Gupta, S. Kant (Shimla) and R.K. Sharma (Jalandhar, India)	6792
Integrated synthesis and characterization of some porous polyacrylamide-based composites for cationic sorption from aqueous liquid wastes I.M. El-Naggar (Cairo, Egypt), G.M. Ibrahim (Cairo, Egypt and Bisha, Saudi Arabia), B. El-Gammal and E.A. El-Kady (Cairo, Egypt)	6802
Migration test column for decontamination of radioactive liquids by using natural tuff E. Kam, A.E. Osmanlioglu (Istanbul) and A. Bozkurt (Sanliurfa, Turkey)	6817
Analyzing pump impeller for performance evaluation using RSM and CFD M. Nataraj and R. Ragoth Singh (Coimbatore, India)	6822
Spiramycin photocatalysis under artificial UV radiation and natural sunlight N. Chekir (Bab-Ezzouar and Bou-Ismaïl), N.A. Laoufi and F. Bentahar (Bab-Ezzouar, Algeria)	6832
Mass transfer characteristics of single heavy metal ions in air-sparged dialysis cells S.A. Al-Jlil (Riyadh, Saudi Arabia)	6840
Author Index	6846