

## Contents

### Volume 237

Experimental and numerical studies on predicting and improving the full-scale wastewater treatment plant hydrodynamics R. Şibil, E. Aras, M. Kankal (Turkey)	1
Pressure profile impact on batch reverse osmosis desalination: investigation and optimization A. Chougradi, L.N. Qadiri, J.-E. Jellal (Morocco)	18
Reverse osmosis membrane design for reclamation and removal of perfluorooctanoic acid Zhe Wang, Wan Su, Yufeng Zhang (China)	32
Filamentous fungi and natural supports as a carrier in moving bed biofilm reactors for ecological treatment of halieutic industrial effluent A. Fathi, N. Boutaleb, B. Bahlaouan, M. Bennani, S. Lazar, S. El Antri (Morocco)	37
Design and optimization of parameters for continuous denitrification of water by methane using <i>Hyphomicrobium denirificans</i> in a packed bed reactor E. Bahmani, M. Nosrati, S.A. Shojaosadati (Iran)	45
Removal of phenolic compounds from olive oil mill wastewater using kaolinite and iron oxide nanoparticles R.M. Abu Shmeis, I.N. Tarawneh, H.M. Al-Majali (Jordan)	54
Study on sodium functionalized ultrasonic-diatomite and its performance for phosphorus removal Gufeng Li, Min Yang, Xuemei Ding, Wei Tan, Guizhen Li, Shuju Fang, Hongbin Wang (China)	64
Isotherm, kinetics, and thermodynamics modelling for the removal of chemical oxygen demand, colour, and NH <sub>3</sub> -N from coffee processing wastewater by ion exchange resins I.E. Madu, M.A. Kamaruddin, M.S.M. Yusof, N.M. Niza, A.M.H. Shadi, F.A. Norashiddin, M.S. Hossain (Malaysia)	77
Performance of sludge-based activated carbon to remove COD from mature landfill leachate: the influence of carburant and activator Fan Zeng, Keqiang Ding, Jiawei Lu, Minghan Luo, Danping Pan, Qili Qiu (China)	88
In-situ N-doped TiO <sub>2</sub> /mesoporous g-C <sub>3</sub> N <sub>4</sub> nanosheets S-scheme heterojunction derived from supramolecular precursor with enhanced visible-light photocatalytic performance Changsheng Ban, Jun Li, Yang Jin, Longtao Zuo, Wenqi Xu (China)	97
Ultrasound irritation enhanced activation of peroxyomonosulfate with Fe <sup>0</sup> for humic acid removal: less formation of Fe-HA complex Xizhong Bao, Yang Zhang, Min Zhang, Guiyu Luo, Yue Deng, Yong He, Yi Zhang (China)	108
Performance and mechanism of nitrophenol removal by nano zero-valent iron supported on granular activated carbon Jiankun Zhang, Xueyang Zhang, Jiaqiang Liu, Linjun Zhang, Hong Zheng, Chengfang Yang (China)	121
Investigation of the kinetic properties of Co-La-Ce-B catalyst for sodium borohydride solutions to generate hydrogen for polymer electrolyte membrane fuel cell A. Ekinci, Ö. Şahin, S. Horoz (Turkey)	137
Control of <i>Microcystis aeruginosa</i> toxic blooms by Moroccan medicinal plant-based algicides L. Tebbaa, M. Douma, Z. Tazart, K. Mouhri, M. Loudiki (Morocco)	146
Sodium chloride and nitrogen effects on <i>Chlorella vulgaris</i> growth and biocommodities production S.E. Biliani, I.D. Manariotis (Greece)	159
Effects of phosphate deficiency on the removal of anammox nitrogen and sludge characteristics Wei-qiang Wang, De-qi Xiong, Jing-hai Zhu, Di Luo, Jie Qian, Jin-xiang Fu (China)	170
Adsorptive optimization of green <i>Calotropis gigantea</i> silver nanoparticles: photocatalytic degradation against Congo red and Acid orange 7 dyes arbitrated by sunlight M. Arslan, R. Nadeem, M. Idrees Jilani, T. Javed, I. Javed (Pakistan)	181

Coagulation of aqueous graphene oxides in presence of metal cations Xiaobin Zhu, Bin Zuo, Liang Zhang, Zhengcun Zhou, Lun Yang, Jinlei Zhang, Shuyi Wu, Sheng Yu (China) .....	191
Removal of uranium(VI) and thorium(IV) from aqueous solution by <i>Hedera helix</i> leaves: kinetics and thermodynamic studies F.M. Abu Orabi, F.I. Khalili, L.S. Ismail (Jordan) .....	202
Preparation of carbon spheres/lignin materials and adsorption of toxic metal ions Nannan Zhang, Jie Pan, Fulong Cheng (China) .....	214
Synthetic effect of zero-valent iron and granular activated carbon on methane production from pentachlorophenol wastewater Penghuan Cheng, Youxin Zhou, Yali Liu (China) .....	226
Temporal variation of water quality at the inlet of a reservoir in the Northeastern China Yanhua Liu, Mengli Zhuang, Chengjiu Guo, Yuhua Jia (China) .....	233
Sorption of anionic dye by hybrid hydrotalcite/alginate beads in batch and in a fixed bed reactor Lulu Zhao, J.-P. Basly, M. Baudu (France) .....	241
Two-stage hybrid electrocoagulation–adsorption in the removal of disperse dyes and inorganic salts from the textile dyeing effluent P. Jegathambal, A. Gafoor, Parameswari (India) .....	251
Modified garlic straws as new adsorbents for removing ionic dyes from aqueous solutions Jing Dai, Zhimin Ye, Kaiming Jin, Liming Zhang, Hongeng Han, Ruyi Sha (China) .....	259
Energy efficiency of advance physical system for the complete treatment of dye-bath effluents R. Tanveer, A. Yasar, H. Nissar, A.-ul-B. Tabinda, A.-S. Nizami (Pakistan) .....	271
Photocatalytic mediated remediation of synthetic dyes effluent using zero-valent iron: a comparative study M.A. Rafique (China), A. Jamal (Saudi Arabia), G. Afzal, S. Abrar, S. Kiran, S. Nosheen, H.M.H. Hussain, T. Majeed (Pakistan) .....	284
Preparation of a N-TiO <sub>2</sub> photocatalyst by sol-gel method and its photodegradation of ionic dyes under sunlight Jing Guo, Jiankun Wang, Xiaodong Jiang (China) .....	292
Removal of methylene blue dye from aqueous solutions by adsorption in combination with ozonation on iron loaded sodium zeolite: role of adsorption A. Ikhlaq, M. Raashid, A. Akram, M. Kazmi, S. Farman (Pakistan) .....	302
Author Index .....	307