

Contents

Volume 254

Enhancing solar still productivity by optimizing operational parameters S.J.P. Gnanaraj, M.G.L. Annaamalai (India)	1
Potassium hydroxide-treated walnut shell residue biochar for wastewater treatment: phenol adsorption and mechanism study Jinyuan Zhang, Fengchuan Li, Shiping Zhou, Tao Li, Minghui Wu, Xianghong Li, Huijuan Li (China)	15
Removal and mechanism of Ni(II)-containing wastewater by oxidation and Fe-impregnated modified biochar Chaoyang Yu (China)	25
Degradation of sulfolane in petrochemical industry wastewater by electro-Fenton treatment using response surface method H.R. Pouretedal, M.M. Amooshahi, S. Damiri (Iran)	38
Removal of total organic carbon from olive mill wastewater using palygorskite clay mineral E. Gianni (Greece), G. Panagopoulos (The Netherlands), K. Katsanou, D. Panagiotaras, V. Bekiari (Greece)	50
Selection and evaluation of rural wastewater treatment technology in arid regions of Northwest China Dexin Shan, Huating Jiang, Yingjie Dai (China)	57
Multi-response optimization of coagulation-flocculation process for stabilized landfill leachate treatment using a coagulant based on an industrial effluent A. Anouzla, M. Kastali, K. Azoulay, I. Bencheikh, G. Fattah, J. Mabrouki, C.E. Elhassani, B. Ouadil, K. El Moustaqim, C. Bakkouche, A. Moussadik, L. Mouhir, K. Digua, S. Souabi, R. Khaoulaf, S. El Hajjaji, H. Loukili, N. Saffaj, M. Azrour, Y. Abrouki (Morocco)	71
Mechanisms of ethidium bromide removal by Ca-montmorillonite Po-Hsiang Chang (China), Zhaohui Li (USA), Wei-Teh Jiang (Taiwan)	80
Enhanced photocatalytic activity of $\alpha\text{-Fe}_2\text{O}_3/\text{g-C}_3\text{N}_4$ composite materials for degradation of toluene in aqueous solution under visible light irradiation S. Al Mamari, S. Thangavel (Oman), Younghun Kim (Korea), R. Selvaraj (Oman)	94
Adsorption of Rhodamine B from an aqueous solution onto NaOH-treated rice husk M.I. Khan, A. Shanableh (UAE)	104
Fe-encapsulated zeolite composite with free OH group as Fenton-like catalyst in near-neutral solution Lei Wang, Chen Chen, Ting Cheng, Bo Ma, Run Zhou, Dianyi Wu, Xiao Zhang, Yuan Tian (China)	116
Performance of CO_2 adsorption by hybrid amine-functionalized MCM-41 Zhoubing Cheng, Qunpeng Cheng (China)	142
Analysis of a coagulation sludge contamination with metals using X-ray crystallography I. Wiewiórska, S. M. Rybicki (Poland)	151
Chlorine decay in water supply pipelines: impact of nitrogen concentration in the source waters I.E. Lima Neto, L.A.D. Azevedo, C.L. Ximenes Júnior (Brazil), Shao Yu, Tingchao Yu, Tuqiao Zhang (China)	160
Mathematical analysis of sub-atmospheric vapor pipeline transmission for seawater desalination: Green and Eigen functions solutions M. Shojaei, M. Nosrati, R. Attarnejad (Iran)	169
Factorial screening of platinum removal using flat sheet supported liquid membrane S.M. Mokhtar, V. Rajendaren, S.M. Saufi, N. Othman, R.N.R. Sulaiman (Malaysia)	181
Application of nanofiltration in fluoride separation from aqueous solutions containing nitrate M. Grzegorzek, K. Majewska-Nowak (Poland)	189
Performance of microporous carrier for removing nitrogen from aquaculture wastewater Wen Zhou, Julin Yuan, Tengfei Ni, Yuanhao Yang, Mengying Li, Zhongqin Cheng (China)	200

Enhancement of corrosion inhibition efficiency of sodium alginate via grafting with polyacrylamide A. Hefnawy (Bahrain, Egypt), S.H. Zaki, M.S.E.-D. Hassouna, S. Helmi (Egypt)	208
Investigation of short-time artificial aeration on water quality parameters and phytoplankton structure: a case study "Mamloo Reservoir" H. Naderi, A.H. Javid, S.M. Borghei, M. Eslamizadeh (Iran)	217
Groundwater potential mapping and natural remediation through artificial recharge structures in Vellore district, Tamil Nadu, India using geospatial techniques V. Govindaraj, S. Thirumalasamy, J.I. Sankar, S. Gopi (India)	229
A spatiotemporal analysis of water quality characteristics in the first-level tributaries in Nanchong Section of Jialing River Xu Yuan, Zhaoxu Lu, Li Shu, Yifan Qian, Songlin Tan, Yiyang Zhou, Yunxiang Li, Qiumei Quan (China)	238
Calcination effects on sol-gel preparation of porous TiO ₂ /zeolite composites for Acid Red 1 degradation Minghua Wang, Wenjie Zhang, Yingjie Tao, Lili Yang (China)	251
Comparative study on adsorptive efficiency assessment of Congo Red dye from aqueous solutions using nanoporous zirconia oxides and anionic clays nanosheet F.B.D. Saïah, N. Bettahar (Algeria)	260
Preparation of cobalt ferrite nanoparticles and application as peroxyomonosulfate activators for the removal of Congo red Z. Musajan, Pengfei Xiao, Jing Zhao, Shuang Han, Qirui Wang (China)	274
Removal of Methylene Blue from aqueous solution with activated carbon produced from hazelnut shells by K ₂ CO ₃ activation B. Sarici, S. Karatas, E. Altintig (Turkey)	287
On the role of surface functional groups in enhancing methylene blue adsorption by low-temperature biochar derived from <i>Platanus orientalis</i> bark Weisheng Chen, Zhongfang Zhang, Hengjia Kang, Yujie Guo (China), Tannaz Pak (UK), Guoting Li (China)	302
Author Index	313