



Contents

Volume 266

Energy-efficient compact multi-stage solar desalination by heat recovery with siphon mechanism for seawater feeding
M. Fujiwara, S. Yamauchi (Japan) 1

Research on critical mode transferring characteristics for adjustable thermal vapor compressor in MED-TVC system
Yong Yang, Xiaotong Ren, Yiqiao Li, Shihe Zhou, Kun Zhang, Shengqiang Shen (China) 13

Effect of ultrasonic distillation on performance parameters of seawater desalination and optimization of performance ratio
Jitian Song, Xu Liu, Dongqi Shi, Shanlin Zhou, Hang Su, Xiaoxu Bi, Kaijie Cai, Wei Tian (China) 27

Biodesalination of brackish water coupled with lipid production using native *Scenedesmus* sp. isolated from a saline lake in Ethiopia, Lake Beseka
M. Maru, F. Zewge, D. Kifle (Ethiopia), E. Sahle-Demissie (USA) 39

Study of the performance of the drinking water supply network: case of the new urban pole of Boujlida (City of Tlemcen, Algeria)
R.M.B. Khelladi, A.C. Fellah (Algeria) 49

Effect of operation conditions on alkalinity production from alkaline substances used in anaerobic wastewater treatment system
A. Seid-Mohammadi, G. Asgari, R. Shokoohi, P. Shahbazi, A. Dargahi (Iran) 62

Efficient removal of iron from groundwater by dual-media filter
A.H. Naggar (Saudi Arabia), A.-S.A. Bakr (Egypt) 70

Heavy metals adsorption onto graphene oxide: effect of mixed systems and response surface methodology modeling
A. Ibrahim, M.S. Vohra, S.A. Bahadi, S.A. Onaizi, M.H. Essa, T. Mohammed (Saudi Arabia) 78

Removal of Cr(III) from tanning effluent using adsorbent prepared from peanut shell
Fatema-Tuj-Zohra, S. Ahmed, R. Sultana, M. Nurnabi, M. Zahangir Alam (Bangladesh) 91

Synthesis and characterization of CdCr-NO₃ layered double hydroxides nanostructures for Cr(VI) ions adsorption: factorial design and statistical analysis for multivariate sorption optimization
F. Ali (Pakistan), A. Elçi (Turkey), A.N. Siyal, B.A. Baig, A.N. Jakhrani, S. Dehraj, G. Das (Pakistan) 101

Adsorption of Zn²⁺ in wastewater by vinylamine modified weathered coal
Yajuan Cheng, Xinyue Ma, Yanxu Chi, Xiaoli Ma (China) 110

Assessment of various heavy metals level in groundwater and soil at tannery manufacturing areas of three mega cities (Sialkot, Lahore and Karachi) of Pakistan
G. Murtaza (China), M. Usman (Pakistan) 121

Preparation of activated carbon from *Salvadora persica* for the removal of Cu(II) ions from aqueous media
M.I. Din, R. Khalid, Z. Hussain, I. Majeed, J. Najeeb, M. Arshad (Pakistan) 131

Techno-economic assessment of Ni removal from industrial wastewater by electrocoagulation using rectangular aluminium electrodes
A. Barhoumi, S. Ncib, W. Bouguerra, E. Elaloui (Tunisia) 143

Preparation of Zn²⁺-Ni²⁺-Fe³⁺-LDHs and study on photocatalytic degradation of phenol
Xiaoli Song, Yuxiu Fu, Yaming Pang, Liguao Gao, Xiangrong Ma (China) 154

The treatment of Pb(II) ions in wastewater by electrosorption
Fang Li, Zhengwen Lin, Huanqing Zhai, Xinyu Liu (China) 163

Experimental design and optimization of textile dye photodiscoloration using Zn/TiO₂ catalysts
L.E.N. Castro, A.H. Meira, L.N.B. Almeida, G. Gonçalves Lenzi, L.M.S. Colpini (Brazil) 173

Modeling of dissolved oxygen parameter and optimization using RSM and ANN for paint industry effluent in semi batch fermenter P. Aravind, J. Sumathi (India)	186
Spectrophotometric determination of bisazo dye malachite green in water sample Xiao-Dong Li, Jia-Wen Pang, Qing-Zhou Zhai (China)	197
Removal of methyl orange from aqueous solution by electrochemical process using stainless steel/PbO ₂ -TiO ₂ stable electrode T.T. Pham, T.T.T. Mai, B.T. Phan (Vietnam)	202
Efficient adsorption of three dyes by soybean residue (okara) biochar in an aqueous solution Dexin Shan, Ziyi Shao, Xiao Liu, Yuxin Wang, Yufei Liu, Yingjie Dai (China)	212
Assessment of photocatalytic n-TiO ₂ /UV and n-TiO ₂ /H ₂ O ₂ /UV methods to treat DB 86, RY 145 and AV 90 dye mix containing wastewater M. Aksu, M. Has, N.P. Tanatti, B. Erden, G. Katircioğlu Sinmaz, F. Boysan, İ.A. Şengil (Turkey)	226
Adsorption behavior and mechanism of atrazine on biochar obtained from the peanut shell Siwei Qiu, Xiangjuan Yuan, Lei Sun, Dongsheng Xia (China)	236
Investigating the efficiency of humic acid removal from aquatic solutions with eggshell adsorbent A. Mehri, G. Kashi, S. Khoramneghadian, N. Nourieh (Iran)	247
Removal of triclosan from aqueous solution using biochar derived from seed shell of <i>Aesculus turbinata</i> Eun-Ji Cho, Joon-Kwan Moon, Chang-Gu Lee, Seong-Jik Park (Korea)	256
Remediation capacity of carboxymethyl lignocellulose/montmorillonite composite materials for monosodium glutamate wastewater Baiyun Zhao, Ze Liu, Yanrong Liu, Qi Shi, Xiaokai Liu, Li Wang (China)	268
Photodegradation of phenol under visible light using chabazite as a stabilizer in anatase TiO ₂ I. Zamudio-Torres, E. Ramírez-Morales, G. Pérez-Hernández, M.G. Hernández-Cruz, L. Rojas-Blanco (Mexico)	276
Utilization of <i>Trametes versicolor</i> for the production of laccase and its application in oxytetracycline degradation from wastewater S.F.B. Suboh, S.H.M. Setapar (Malaysia), M.B. Alshammari, A. Ahmad (Saudi Arabia)	284
Microbial diversity of water after ultraviolet disinfection in a rural water supply project with groundwater as a source Wei Zhao, Guochen Zheng, Cui Zhao, Xinyue Hou (China)	291
Investigation of the simultaneous effects of operating condition in the anaerobic filter with five chambers for the treatment of dairy effluent N. Davari, H. Alizadeh Golestani, H. Ahmari, S. Mohseni (Iran)	298
Author Index	308