



Contents

Volume 276

Temporal-spatial variation characteristics of utilization efficiency of water resources in Changbai Mountain area
Daiji Wan, Jiping Liu, Hanxing Ma (China) 1

Sensitivity analysis of double slope solar still having compound parabolic concentrator integrated ETCs by incorporating heat transfer coefficients, exergy gain and exergy efficiency
A.R. Singh, A.B. Agarwal, D.B. Singh (India) 13

Productivity modelling of an inclined stepped solar still for seawater desalination using boosting algorithms based on experimental data
R. Wazirali (Saudi Arabia), M.S.S. Abujazar (Palestinian Authority, Turkey), S.K.M. Abujayyab (Oman), R. Ahmad (UAE), S. Fatihah (Malaysia), A.E. Kabeel (Egypt), S.U. Karaağaç (Turkey), S.S. Abu Amr, M.Y.D. Alazaiza (Oman), M.J.K. Bashir (Malaysia), I.Y. Sokar (Palestinian Authority) 28

An experimental investigation of the novel standalone vapour-based multistage solar still with stacked stages
M.M. Mkhize, V. Msomi (South Africa) 40

Experimental investigation on the removal of phenol from simulated wastewater by reverse electro dialysis reactor
Sixue Wang, Xi Wu, Shiming Xu, Qiang Leng, Dongxu Jin, Ping Wang, Debing Wu, Fujiang Dong (China) 50

Comparative study of commercially available biomimetic membrane performance for seawater desalination
A. Al-Sairafi, G. Bhadrachari, M. Ahmed, S.B. Al-Muqahwi, M. Al-Rughaib (Kuwait) 62

Removal of organic pollutants and antibacterial properties of modified chitosan and their composites
Bingtao Liu, Xiang Li, Yanhu Wu, Yu Shi (China) 70

Flotation of microalgal particles without chemical coagulant and role of extracellular polymeric substances under auto-flocculation
Min-Ho Jang, Yong-Ho Choi, Yong-Hoon Jeong, Nguyen Thi Hong Hue, Dong-Heui Kwak (Korea) 83

Removal of amoxicillin from wastewater by adsorption onto activated carbon prepared from sunflower seed hulls
S.A. Rashid, T.M. Naife, B.M. Kurji (Iraq) 93

Using electro-peroxone process for petrochemical wastewater treatment: cost evaluation and central composite design optimization
S. Karimi, A. Shokri, A. Hassani Joshaghani, M. Abdolkarimi-Mahabadi (Iran) 104

Color and dissolved organic carbon removal from textile industry wastewater through oxidation and electrocoagulation
A. Martín-Domínguez, M.L. Rivera-Huerta, M.P. Hernández-Valencia, S. Pérez-Castrejón, M.T. Alarcón-Herrera (Mexico) 116

Treatment of olive mill wastewaters using infiltration/percolation system: effect on microbial communities in the soil filter
M. Belaqqiz, A. El-Abbassi, F. Chamkh, A.-I. Qatibi (Morocco) 124

A study on the ability of processed squeezed bitter almond for the removal of cadmium ions from contaminated water
A.N. Amro (Saudi Arabia), K. Al-Essa, E.M. Al-Essa (Jordan), A.I.A. Alakhras (Saudi Arabia), M.A. Habib (Saudi Arabia, Jordan), T. Odeh (Jordan) 133

Characterization and isothermal studies of Cd removal from aqueous solutions using sludge-based activated carbon
A. Zendelska, V. Pancevska, M. Golomeova, B. Golomeov, D. Mirakovski, M. Hadzi-Nikolova, N. Doneva (Macedonia) 142

Removal of Ni(II) Ions from aqueous solutions with Siirt Koçpınar mixed type clay investigation of isotherm, thermodynamic and kinetic parameters N. Onursal (Turkey)	150
Designing, characterization, and application of cross-linked chitosan possessing Schiff base and ion-imprinted network polymer for selective removal of Cu(II) from aqueous solution H.Y. Sharef, N.A. Fakhre (Iraq)	160
Green iron particles in textile and dye bath wastewater decolorization C.D. Raman, N. Akash, M. Kaviyarasu, N. Rajkumar (India)	175
Reduction and fixation of Cr(VI) by <i>Aspergillus niger</i> along with bentonite-sodium alginate beads Yinhuang Li, Ruixia Hao, Bing Shan, Jiani Li, Yubo Ye, Junman Zhang, Anhuai Lu (China)	185
Effects of loading metal ions on antibiotics adsorption by clay-sulfonated solid acid Hong-yan Deng, Qi Kuang, Wen-bin Li, Si-yi Yan, Dian-yu Song (China), A. Touqeer (USA), Zi-shan Lu, Wei Liu (China)	195
Secondary iron ion contamination of water in the water supply network M. Wojtkowska, M. Potyralla (Poland)	203
Heavy metals separation and determination in waters using MIS-FAAS by bismuth (III) hydroxide coprecipitation method A.A. Kartal, K. Taskiran, D. Yavuz Yildiz, U. Divrikli, L. Elci (Turkey)	214
Synthesis of Ag ₃ VO ₄ /Bi ₂ WO ₆ heterojunction photocatalyst with enhanced photocatalytic activity under visible-light irradiation by hydrothermal methods Chung-Hsin Wu, Syuan-Ru Jhu (Taiwan)	224
Pathways, by-products, reaction intermediates, and kinetics study of degradation of profenofos via photo-assisted peroxidation R.O. Ramos, M.V.C. Albuquerque, S.F. da Silva, W.S. Lyra, M.C.U. Araújo, J.T. de Sousa, V.D. Leite, W.S. Lopes (Brazil)	237
Photocatalytic cement composite surface reactivation impact on the degradation rate of methylene blue in a circulating flow fixed-bed photoreactor S. Tajasosi, R. Vagheei, M. Shirzad-Siboni (Iran)	250
Adsorption properties of Fe-attapulgitite nanocomposite removal tannin from aqueous solution Yiqun Xu, Zhixin Wang, Xingyu Shen, Huixin Xiong (China)	261
Feasibility study on the utilization of low-cost sawdust for adsorption of caffeine: equilibrium, optimization, and response surface modeling C. Nirmala Rani (India)	271
A review of chemical and bioelectrochemical process of N, P nutrient recovery as struvite (MgNH ₄ PO ₄ ·6H ₂ O) C. Sreelakshmi, S. Kiruthika, R. Jeyalakshmi (India)	282
Performance evaluation of spray aeration in a pilot scale model A.T. Hamad, L.A. Mahmood, M.S. Mahmood (Iraq)	301
The performance of an efficient solar domestic water heater based on an experimental study S. Ettami, D. Saifaoui, A. Lilane, K. Gueddouch, Z. Boulahia (Morocco)	309
Author Index	319