

Contents

Volume 293

| | |
|---|-----|
| A novel dual-heated water and power cogeneration system using solar driven humidification–dehumidification cycle Weifeng He, Qile Shi, Zihui Zhang, Zhaohui Yao, Pengfei Su, Dong Han (China) | 1 |
| Study of solar still in groundwater treatment in Brazilian northeast K.S. da Silva, Y.J.V. de Brito, C.B. Silva, G.G.C. de Lima, K. Machado de Medeiros, C.A.P. de Lima (Brazil) | 14 |
| Future vision of using nuclear energy for desalination plants in Egypt M.K. Shaat, L.A. Shouman, D.A. Fadel (Egypt) | 27 |
| CFD simulation optimization of a swirling vortex cavitator and its oxytetracycline degradation characteristics: kinetics and degradation pathway Baoe Wang, Rihong Zhang, Yiyong Li, Xiaoming Lian (China) | 34 |
| Computational fluid dynamics calculations of high efficiency heat exchangers operating in laminar motion consisting of extruded plastic profiles with inserts M. Vismara, N. Mazzetti, R. Mereu (Italy) | 43 |
| LES simulations of a vacuum membrane distillation channel with geometric alterations J. Caspar, Guanyang Xue, A. Oztekin (USA) | 49 |
| Linear and nonlinear ensemble concepts for pan evaporation modeling J. Abdullahi (Nigeria), G. Elkiran, F. Aslanova, D. Orhon (Turkey) | 67 |
| Automatic scheduling and control technology of pump gate clusters of regional water conservancy project Aijun Sun, Donghui Hu, Chengju Shan, Jun Wang (China) | 82 |
| The "BOOT+BTO" operation mode of the comprehensive utilization of water conservancy project Zhiyong Li, Zhixiao Zhang, Zihan Chen, Yintao He, Fei Yang, Xiangtian Nie (China) | 89 |
| Derivation of formulas for sediment carrying capacity and erosion and deposition strength applicable to channel siltation calculation Xiaotian Dong, Zogui Jin, Wenjin Zhu, Feigang Liang (China) | 100 |
| Oxidative degradation technology of synthetic water pollutants containing sulfamethoxazole in urban suburbs based on section water quality response Zhiguo Zhang (China) | 107 |
| Optimizing of ultraviolet initiated template polymerization of cationic polyacrylamide by response surface methodology Zhengan Zhang, Juanfang Shang, Yuying Li, Lin Li, Yujiao Ye, Xia Hua (China), Bailian Li (USA) | 114 |
| Pretreatment of preserved fruits wastewater by a novel Fe(III)-catalyzed oxidation coupled with calcium oxide precipitation Chongzhi Yao, Pingzhong Feng, Zhongbin Xu, Zhongming Wang, Tingting Zhu, Zhibing Li, Shunni Zhu (China) | 124 |
| A review on the significance of Azolla for water and wastewater treatment S. Taghilou, M. Peyda, M. Mehrasbi (Iran) | 138 |
| Construction of specific nickel-based electrode using N, N-dimethylformamide/water as solvent and the application in metronidazole detection Yunfan Lu, Ruibin Wang, Guoping Wang, Nian Chen (China) | 150 |
| Citric acid-pyrolysis synthesis of bismuth titanate series compounds and their photocatalytic degradation Yu ying Mo, Biyang Tuo, Jianli Wang, Guanghua Nie, Yun Tang (China) | 160 |
| Photo-degradation and mineralization of ciprofloxacin by consecutive application UV/iodide process and biological treatment N. Mahmoudi, A. Jonidi Jafari, M. Farzadkia, M. Kermani, A. Sheikhmoammadi, H. Pasalari, A. Esrafili (Iran) | 170 |
| Ultraviolet-catalyzed persulfate degradation of cellulosic ethanol wastewater Likun Huang, Yue Hou, Guangzhi Wang, Jingfu Han, Zhe Li, Yuanyuan Xu (China) | 182 |

| | |
|---|-----|
| Phytoremediation potential of <i>Elodea canadensis</i> for reduction of chromium – optimization using response surface methodology | |
| V. Sankaranarayanan, S. Velusamy, P. Sankaran, K. Kandasamy (India) | 192 |
| The biosorption of Co(II) by <i>Homalothecium sericeum</i> from aqueous solutions under batch conditions: response surface methodology optimization and <i>Daphnia magna</i> bioassay | |
| M. Tanyol, V. Korkmaz, N. Yildirim, G.O. Erguven, N. Karaaslan Ayhan, M. Alatas (Turkey) | 200 |
| Removal of Cd(II) ion from aqueous solution using magnetic ionic liquid based nanocomposites [NiFe ₂ O ₄ @BMSI]Br: kinetics, isotherm and thermodynamic studies | |
| Mu. Naushad, M.R. Khan, T. Ahamad (Saudi Arabia) | 208 |
| Vegetable lignocellulosic wastes used as biosorbent for removal of Cu(II) from aqueous media | |
| A.M. Tanasa, A.C. Puitel, R.E. Tataru-Farmus, D. Suteu (Romania) | 216 |
| Biosorption of methylene blue dye using banana floret:: kinetic, equilibrium, thermodynamic and mass transfer studies | |
| C. Sutherland, B. Chittoor, V. Laltoo (Trinidad and Tobago) | 224 |
| Investigation of malachite green removal using graphene oxide-zinc oxide composite from aqueous solution: synthesis, characterization and application | |
| A.A. Alanazi (Saudi Arabia) | 243 |
| Statistical model for comparing the performance of four natural and chemical coagulants using polynomial model | |
| A.F.M. Alkarkhi, M.M.A. Ayash (Malaysia), S.S. Abu Amr (Oman), W.A.A. Alqaraghuli, M. Zulkifli (Malaysia) | 253 |
| Modification of the greened house rye grass macro- and micro nutrients uptake using magnetically treated water | |
| N. Al-Amri (Saudi Arabia), A. Tawfiq (Egypt), S. Boteva (Bulgaria), N. Yilmaz (Turkey), Lifu Zhang (China), M. Elhag (Oman) | 267 |
| Effect of a hydrophobically associating polymer on disproportionate permeability reduction to oil and water for sandstone reservoirs | |
| Xu Li, Xiaopeng Wang, Chunsheng Pu (China), N. Khan (Pakistan), Jingyang Pu, Shaofei Kang, Yun Bai, Kai Wang, Jing Liu (China) | 276 |
| Author Index | 286 |