

Contents

Volume 249

Fouling and fouling mitigation in batch reverse osmosis: review and outlook L. Burlace, P.A. Davies (UK)	1
Bioinspired fabrication of composite ultrafiltration membrane with high performance for wastewater treatment Guocheng Song, Chun Ding (China)	23
Antifouling polyethersulfone composite ultrafiltration membrane fabricated with SiO ₂ -g-PAA as additive and its application in oil-in-water emulsion Jun Yin, Xinan Cai, Bingshan Wang (China)	33
Applications of waste date stones as a source of versatile activated carbons M. Hijab, P. Parthasarathy, H. Mackey, T. Al-Ansari, J. Saleem, G. McKay (Qatar)	47
Preparation of activated carbon from sludge by 'double green activation' and adsorption capacity for Congo red dye Jun Chen, Xiaowan Dong, Sisi Cao, Layun Zhu, Zihui Song, Jie Jin, Hongxing Yang (China)	61
Adsorption of sulfonamides from aqueous solution by carbon nanotubes: determination of kinetics, equilibrium and thermodynamic parameters Chung-Hsin Wu, Shun-Chi Tsai (Taiwan)	74
Adsorption technique for the removal of acetaminophen as adsorbate contaminant from water with metals and eggshell C.B. Njoku, T.A.M. Msagati (South Africa)	87
Inactivation of microorganisms in drinking water using combined treatment with ultraviolet and sodium persulfate Yongji Zhang, Yeqing Chen, Jie Qiu, Lingling Zhou (China)	103
Influence of hydrophilicity/hydrophobicity on adsorption/desorption of sulfanilic acid using amine-modified silicas and granular activated carbon W.A. Al-Amrani (Yemen), M.A.K.M. Hanafiah, Poh-Eng Lim (Malaysia)	109
Risk assessment of sewage treatment Public Private Partnership projects in China Hui Zhao, Jingqi Zhang, Zhijie Li (China)	119
Solar and wind energy complementary seawater desalination and water-supplying system utilization in an offshore island of eastern China Kairan Wang, Fulin Li, Huawei Chen, Zhen Wu, Shidong Fu (China)	135
Integrated approach for delineating groundwater potential and quality in District Bagh, Azad Jammu and Kashmir, Pakistan A. Niaz, U. Basharat, U. Bin Nisar, R. Fiaz, M.S. Mughal, F. Hameed, A. Asghar, J. Niaz (Pakistan)	147
Calibration and validation of soil water assessment tool (SWAT) for Poondi Micro-Watershed P. Eshanthini, S. Nandhakumar (India), T.R. Praveenkumar (Ethiopia)	165
Study on the present situation and prevention measures of water pollution in a drainage basin in Eastern Guangdong Ye Liu, Xi Zhou, Yanan Huang, Jiwen Luo (China)	174
Effect of sludge sewage quality on heating value: case study in Jakarta, Indonesia I.W.K. Suryawan (Indonesia), Jun-Wei Lim (Malaysia), B.S. Ramadan, I.Y. Septiariva, N.K. Sari, M.M. Sari, N.L. Zahra, F.D. Qonitan, A. Sarwono (Indonesia)	183
The impact of ionic strength and pH on the interaction of <i>Pseudomonas putida</i> to minerals and electrical potential of surfaces F.M. Zuki (Malaysia), R.G.J. Edyvean (UK), U.F.M. Ali, H. Pourzolfaghar, H.F.S. Gafri, M.I. Bzour (Malaysia)	191

Measures to enhance a plant intercropping – crop rotation system for Zn and Cu remediation in sewage river sediments Jihong Zhang, Jing Zhang, Zhu Rao, Yanan Li, Guokai Zhang, Lexin Wang, Mengjie Chen (China)	204
Response of the antimicrobial activity of silver-modified natural zeolites at different water electrical conductivities M. Albarrán, I. De-La-Rosa-Gómez, M.T. Olguín (Mexico)	218
Characterization, efficiency and mechanism in removing heavy metals by a mixed biochar derived from sludge and banana peel Ying Fu, Shucong Hua, Yanting Yang, Sibao Yang, You Zhang, Genyuan Zhang (China)	232
Use of <i>Paliurus spina-christi</i> Mill. as a novel biosorbent: efficient biosorption of Pb(II) and Cd(II) ions from aqueous solution F. Özmal, M. Kale, Ç. Ay (Turkey)	246
Kinetic modeling of methylene blue photodegradation by graphene/CoZnAl-MMO/TiO ₂ as a new visible light photocatalyst M. Sharifi-Bonab, S. Aber, D. Salari (Iran)	259
Synthesis and characterization of porous bentonite adsorbent and its application to remove methylene blue dye from aqueous solutions N. Daas, H. Zaghouane-Boudiaf (Algeria)	271
Amberlite IRA-93 and modified Amberlite IRA-93 resins for the uranyl ions extraction: optimization through factorial design methodology Y. Benmansour, M.A. Didi, O. Abderarhim (Algeria)	281
Photocatalytic treatment of spontaneous effluent of petrochemical effluents by TiO ₂ CTAB synthetic nanoparticles A. Ahmadpour, A. Bozorgian, A. Eslamimanesh (Iran), A.H. Mohammadi (South Africa)	297
Author Index	309