Water Supply

Volume 20, Number 6

Contents

v Editorial – Introducing Editor's Choice papers to *Water Supply*
Slobodan Djordjević

2021 Micro–nanobubble technology and water-related application
Palwasha Khan, Wenjing Zhu, Feng Huang, Wanlin Gao and Nasir Abbas Khan

2036 A comparative study on rainfall runoff control indicators of green roof
Ke Zhou

2043 Pilot study on nanofiltration membrane in advanced treatment of drinking water
Huiping Li, Yan Chen, Jian Zhang and Bingzhi Dong

2054 An economic model of risk assessment for water projects
Antonio Nesticò, Gianluigi De Mare and Gabriella Maselli

2069 An optimal design strategy of decentralized storage tank locations for multi-objective control of initial rainwater quality
Huifeng Li, Lijun Lu, Xiangfeng Huang, Haidong Shangguan and Zhongqing Wei

2082 Geo-spatial distribution of fluoride in drinking water resources in Eastern Iran
Nourahmad Nourafrouz, Ali Naghizadeh, Borhan Mansouri, Hamed Biglari, Elham Derakhshani and Vaibhav Thakkar

2096 Biodegradation of 2-methylisoborneol by enzyme separated from *Pseudomonas mandelii*
Xia Shao and Kang Du

2106 Small-scale drinking water treatment unit of filtration and UV disinfection for remote area
Kassim Chabi, Jie Zeng, Lizheng Guo, Xi Li, Chengsong Ye and Xin Yu

2119 Prediction of nitrate concentration in Danube River water by using artificial neural networks
Lidija J. Stamenković, Sanja Mrazovac Kurilić and Vladanka Presburger Ulniković

2133 Removal of Pb (II) from aqueous solution by using micro-spheres of *Zea mays* rachis–sodium alginate by batch and column systems
D. Gutiérrez-López, N. Flores-Alamo, M. C. Carreño-de-León and M. J. Solache-Rios

2145 Water quality evaluation based on the water quality index method in Honghu Lake: one of the largest shallow lakes in the Yangtze River Economic Zone
Libin Chen, Zhuo Tian and Kaipeng Zou

2156 High air flotation efficiency of multiphase flow pump with the addition of dodecyl dimethyl benzyl ammonium chloride (DDBAC)
Huan Liu, Wande Ding and Kefeng Zhang

IWA PUBLISHING

2165 Strategic asset management approach for planning investment in a large-scale irrigation system
Rita Salgado Brito, Helena Alegre and Pedro Machado

2175 Enhancing scour protection in river bends: a novel slotted bank-attached vane
Mohamad Azizipour, Farshid Amirsalari Meymani and Mohammad Mahmoodian Shooshtari

2185 UV-assisted desalination of seawater using titanium dioxide nanotube doped polyether block amide membrane
F. U. Nigiz and M. E. Kibar

2194 Characterization of dissolved organic matter extracted from water treatment sludge
Maulana Yusup Rosadi, Toshiro Yamada, Hudori Hudori, Hiroto Tamaoki and Fusheng Li

2206 Efficient electrochemical detection of geosmin in environmental waters
Jiawei Li, Qiang Xue, Tao Chen, Zhiwei Wang, Ting Liu, Yuehua Liu and Xiaohan Shan

2216 Evaluation of solar light inactivation on multidrug-resistant *Escherichia coli* CGMCC 1.1595
Xiu-Feng Yin, Na Shi, Ting Meng and Ying-Xue Sun

2226 Phosphate sequestration and recovery from eutrophication water by *in situ* magnesium phosphate formation
Fazhi Xie, Kang Song, Shixiong Geng and Lu Li

2237 Assessing the benefits of improving the resilience of water distribution networks
Bénédicte Rulleau

2251 Robustness of IoT-connected e-Taps for sustainable service delivery of rural water supply
Will Ingram and Fayyaz Ali Memon

2261 Method for forecasting the flood risk in a tropical country
Adriana Marquez, Bettys Farias and Edilberto Guevara

2275 Effects of influent temperature variation on floc blanket behavior and effluent water quality
Wasantha Illangasinghe, Jagath Manatunge, Niranjanie Ratnayake and Niranjali Jayasuriya

2284 Data-driven runoff forecasting for Minjiang River: a case study
Yuqiang Wu, Qinhui Wang, Ge Li and Jidong Li

2296 Leakage estimation in water networks based on the BABE and MNF analyses: a case study in Gavankola village, Iran
Saeid Mohammadzade Negharchi and Rouzbeh Shafaghat

2311 A two-layer improved invasive weed optimization algorithm for optimal operation of cascade reservoirs
Guo-hua Fang, Cheng-jun Wu, Tao Liao, Xian-feng Huang and Bo Qu

2324 Optimized coagulation of humic acid and mineral turbidity at alkaline pH using high basicity PACl
Kanika Saxena and Urmila Brighu

2339 Determination of optimum operational conditions for the removal of 2-MIB from drinking water by peroxone process: a pilot-scale study
M. Fakioglu, H. Gulhan, H. Ozgun, M. E. Ersahin and I. Ozturk

2348 Monitoring point optimization in lake waters
Gaoxuan Liu, Jiaoyan Ai, Jun Xu, Jianwu Zheng and Dongyi Yao

2359 Conception and evaluation methodology of water resources carrying capacity based on three-level analysis
Pengfei Lin, Jinjun You, Lin Wang, Ling Jia, Hong Gan and Yicheng Fu

2375 Multivariate drought risk analysis based on copula functions: a case study
Mohammadreza Seyedabadi, Mohammadreza Kavianpour and Saber Moazami

2389 Scour depth in confluences considering tributary flow, bank slope, and post-confluence conditions
Payam Khosravinia, Amir Malekpour, Mohammad Reza Nikpour and Ali Hosseinzadeh Dalir

2400 Quantitative analysis of 209 polychlorinated biphenyl (PCB) congeners in sediments of the Raritan River estuary, USA
Ya-nan Li, Jing Li, Zhiwei Shao, Zhihui Duan, Yu Xie, Zhitai Cui, Jinyuan Li, Haoyi Zhou, Mengjie Chen, Sicheng Li and Chengyu Chen

2415 Water–energy nexus for estuarine systems with seasonal salinity variations: a thermodynamic feasibility analysis of reverse osmosis (RO)–pressure retarded osmosis (PRO) combinations
Arijit Chakraborty and Anirban Roy

2428 Study of bursting events and effect of hole-size on turbulent bursts triggered by the fluid and mid-channel bar interaction
Md. Amir Khan and Nayan Sharma

2440 Corrigendum: *Water Supply* 20 (3), 909–921: Comparison study of artificial intelligence method for short term groundwater level prediction in the northeast Gachsaran unconfined aquifer, https://iwaponline.com/ws/article/20/3/909/72227/Comparison-study-of-artificial-intelligence-method?searchresult = 1
Akbar Khedri, Nasrollah Kalantari and Meysam Vadiati