

# Water Supply

Volume 22, Number 9

## Contents

- 7027 Geographic information system and multi-criteria decision analysis for the determination of groundwater recharge potential: systematic review  
**Aji Ahmed Maghribi, Muhammad Dimyati and S. Supriatna**
- 7040 Prediction of daily failure rate using the serial triple diagram model and artificial neural network  
**Burak Kizilöz**
- 7059 Prevalence of antimicrobial resistance in a Bulgarian drinking water supply system  
**Z. G. Tsvetanova, D. N. Dimitrov and H. M. Najdenski**
- 7072 Groundwater quality and its suitability for drinking and irrigational purpose in Bhojpur district: middle Gangetic plain of Bihar, India  
**Subodh Kumar, Anand Kumar, Prashant V. N. Jha, Sunil Kumar Sahoo and Rajesh Kumar Ranjan**
- 7085 Efficient use of liquid digestate in microalgae cultivation for high biomass production and nutrient recovery  
**Ebru Akkaya and Emine Can-Güven**
- 7096 Hydrogeochemical and biological assessment of spring and stream water quality for its suitability for drinking in Kanglung locality, Trashigang, Bhutan  
**Tshewang Dendup, Tshewang Lhendup, Pema Lekzin and Sonam Tobgay**
- 7111 Adaptive ecological baseflow computation based on the ecological requirements: a case study in Weihe Basin, China  
**Dandan Liu, Jiancang Xie, Xue Yang, Na Wei, Shuang Gao and Zijie Yang**
- 7125 Hydrogeochemical assessment of streamwater quality for its suitability for irrigation: the case of Manthong village, Kanglung (Bhutan)  
**Tshewang Dendup, Pema Lekzin, Tshewang Lhendup and Sonam Tobgay**
- 7140 Investigation of quantitative and qualitative changes in groundwater of Ardebil plain using ensemble artificial intelligence-based modeling  
**Ayda Sarreshtedar, Elnaz Sharghi, Amin Afkhaminia, Vahid Nourani and Anne Ng**
- 7158 Biological contact oxidation and an artificial floating island for black odorous river purification  
**Junzuo Jia, Cong Huang, Yongbing Huang, Fuyao Huang, Jiefei Xu, Shang Ni and Zhipeng Li**
- 7172 Water provision planning on the basis of human population growth forecasts: A case study of the City of uMhlathuze, KwaZulu-Natal Province, South Africa  
**Thato Julius Mokoma and Surafel Lulseged Tilahun**
- 7189 Application of innovative trend analysis on rainfall time series over Rajsamand district of Rajasthan state  
**Jinal Pastagia and Darshan Mehta**



- 7197 Implications of evolution of circulation patterns on nutrients regime from 2008–2018, in Xiangxi Bay of the Three Gorges Reservoir, China  
**Umar Ijaz, Xingxing Zhao, Huma Ayub, Zaiqiang Cheng, Siqian Qiu and Abrar Niaz**
- 7226 The influence of projection angle on nappe stability at low energy heads over the weir crest  
**Mohanad A. Khodier and Blake P. Tullis**
- 7242 The effect of humic acid on the desalinization of coastal clayey saline soil  
**Ruirui Huang**
- 7256 Comprehensive evaluation and scenario simulation of carrying capacity of water resources in Mu Us Sandy Land, China  
**Luyao Liu, Xue Xu, Jiaru Wu, Scott Jarvie, Fengshi Li, Peng Han and Qing Zhang**
- 7272 Coupling coordination analysis of water-energy-food-ecology in the Yangtze River Delta  
**Jianpeng Ding and Menghua Deng**
- 7281 The dynamic identification mechanism research of drought based on process description  
**Li Shaoxuan, Xie Jiancang, Yang Xue, Xue Ruihua and Zhao Peiyuan**
- 7297 An overall optimization and solution framework for urban historical and future DRIF under climate change  
**XingChen Ding, WeiHong Liao, Hao Wang, Hao Wang, XiaoHui Lei and JiaLi Yang**
- 7319 Formation and influencing factors of disinfection by-products from bacterial materials in drinking water distribution systems  
**Jing Li, Cuimin Feng, Ying Li, Weiqi Yang and Zibin Zhang**
- 7337 Modeling the formation of disinfection byproducts in chlorinated swimming pool water: Role of body fluid analog  
**Pei Hua, Yingjie Chen and Jin Zhang**
- 7352 Space-time characterization of droughts in the Mae Klong River Basin, Thailand, using rainfall anomaly index  
**Alamgir Khalil**
- 7375 Semiquantitative microbiological risk assessment for water reuse in agriculture: a case study in Brazil  
**Maria Gabriela de Souza Damaceno, Karla Alcione da Silva Cruvinel and Ana Silvia Pereira Santos**
- 7387 A hydraulic simulation-optimization model of the joint operation of multiple devices in long-distance water diversion systems under the pumps shutdown process using a parallel NSGA-II approach  
**Xiaolian Liu, Yu Tian, Ying Zheng, Zirong Liu and Hao Wang**