Contents

1169 Submarine groundwater discharge and alkaline earth element dynamics in a deltaic coastal setting
Daniel J. Coleman, Alexander S. Kolker and Karen H. Johannesson

1177 Integrating genetic algorithm and support vector machine for modeling daily reference evapotranspiration in a semi-arid mountain area
Zhenliang Yin, Xiaohu Wen, Qi Feng, Zhibin He, Songbing Zou and Linshan Yang

1192 Assessment of the suitability of rainfall–runoff models by coupling performance statistics and sensitivity analysis
Mun-Ju Shin and Chung-Soo Kim

1214 A comparative study of multiple linear regression, artificial neural network and support vector machine for the prediction of dissolved oxygen
Xue Li, Jian Sha and Zhong-liang Wang

1226 Controls on subsurface transport of sorbing contaminant
Ali A. Ameli

1240 Assessment of several nonlinear methods in forecasting suspended sediment concentration in streams
Mohammad Zounemat-Kermani

1253 Parameter estimation of an improved nonlinear Muskingum model using a new hybrid method
Majid Niazkar and Seied Hosein Afzali

1268 Multi-temporal variation in water consumption of summer maize as determined by the Water Transformation Dynamical Processes Experimental Device
Yali Wu, Xianfang Song, Ying Ma, Hongmei Bu, Shengtian Yang, Dongmei Han and Yinghua Zhang

1282 A comparison of simple and complex versions of the Xinanjiang hydrological model in predicting runoff in ungauged basins
Peng Bai, Xiaomang Liu, Kang Liang, Xiaojie Liu and Changming Liu

1296 Analysis and projection of runoff variation in three Chinese rivers
Lingqi Li, Irina Krasovskaia, Lihua Xiong and Lei Yan
1311 Comparison of different threshold level methods for drought propagation analysis in Germany
B. Heudorfer and K. Stahl

1327 Assessment of future climate change impacts on the hydrological regime of selected Greek areas with
different climate conditions
Spyridon Paparrizos and Andreas Matzarakis

1343 Drought severity and change in Xinjiang, China, over 1961–2013
Yi Li, Chunyan Chen and Changfeng Sun

1363 Regional climate model and model output statistics method uncertainties and the effect of temperature
and precipitation on future river discharges in Scandinavia
Olle Räty, Hanna Virta, Thomas Bosshard and Chantal Donnelly

1378 Effects of revegetation on soil moisture under different precipitation gradients in the Loess Plateau, China
Fei Tian, Xiaoming Feng, Lu Zhang, Bojie Fu, Shuai Wang, Yihe Lv and Pei Wang

1391 Quantification of uncertainty in reference evapotranspiration climate change signals in Belgium
Parisa Hosseinzaadehtalaei, Hossein Tabari and Patrick Willems

1402 Investigation of the drought–flood abrupt alternation of streamflow in Poyang Lake catchment during the
last 50 years
Xianghu Li, Qi Zhang, Dan Zhang and Xuchun Ye

1418 Use of auxiliary data of topography, snow and ice to improve model performance in a glacier-dominated
catchment in Central Asia
Hongkai Gao, Tianding Han, Youcun Liu and Qiudong Zhao

1438 Characterization of controlling hydrogeochemical processes using factor analysis in Puyang Yellow River
irrigation district (China)
Wenjia Wang, Xianfang Song and Ying Ma