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Sustainable Water Management within Inland River Watershed

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Message from the Guest Editor

Dear Colleagues,

Water scarcity hinders the socio-economic development and ecosystems health in arid/semi-arid regions. Addressing water scarcity requires knowledge of the factors driving hydrological changes and the related effects on water resources—climate change, urbanization and agricultural intensification. In terms of global warming and extreme weather, climate change is identified as being related to the reduction in global water resources and the exacerbation of water scarcity, which will increase the vulnerability of ecosystems in arid/semi-arid regions. Urbanization and agricultural intensification lead to extensive ecosystem degradation, species extinctions, and, consequently, a reduction in biodiversity. Therefore, it is of great significance to construct an integrative water management system at the catchment scale to guarantee the sustainable development and ecological security of river basins in arid/semi-arid regions.

Prof. Dr. Xiangzheng Deng
Guest Editor



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Message from the Editor-in-Chief

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