

Special Issue

Regional Water System and Carbon Emission

Message from the Guest Editors

The water–energy–carbon nexus has become a hot topic in recent years. The operation of the regional water system involves water intake, water use, drainage, etc. The life cycle of water use and exploitation is accompanied by huge energy consumption and carbon emissions. Therefore, discovering the carbon emission characteristics of the water system on a regional scale from the perspective of the water–energy–carbon nexus is an urgent scientific problem. It is the basis for assessing the carbon emission of different links in the process of water system operation. Identifying the factors influencing carbon emissions and analyzing the carbon reduction potentials are of great theoretical significance for the low-carbon operation of the water system and could provide references enabling policy-makers to follow reasonable strategies to save water and achieve a reduction in emissions.

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