



Bridging Hydrology with Ecology and Environmental River Sustainability: The Role of Environmental Flows

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Message from the Guest Editor

Historically, the topic of environmental flow has been strongly linked with approaches describing the quantity, timing, and quality of river flows required to sustain freshwater and estuarine ecosystems. Environmental flow is a vital tool for managing water in the water–energy–food nexus. From a scientific viewpoint, we can see this task as a initiative to balance water consumption and human-made pressure on water resources with environmental sustainability.

Over the last 50 years, numerous models of different complexity have been developed to produce a proper and altered river flow under different components. These methods include simplified hydrological methods, advanced hydrological methods, habitat methods, and holistic methods.

For this Special Issue of Sustainability, we seek papers describing interactions between river hydrology, river hydromorphology, habitat, and biological response as a foundation for establishing integrated environmental flow models. Basic science papers as well as applied novel scientific and administrative approach descriptions are welcome.





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Message from the Editor-in-Chief

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