Special Issue

Fish Passage at Hydropower Dams 2.0

Message from the Guest Editors

Hydropower dams represent barriers for animal movement, in both the upstream and downstream directions. For instance, fish can be blocked or delayed during their spawning migration and can be subjected to injury or death when passing turbines, spillways, or bypasses during their downstream migration, resulting in cumulative negative impacts on individual and population levels. Fish-friendly turbines, collection systems, sensory barriers, mechanical and behavioral barriers, physical barriers, and fish-friendly operations are widely known technological concepts that can be implemented to mitigate the negative impacts of hydropower dams by protecting and guiding fish that are migrating downstream. Compared to downstream fish passage technologies, upstream fish passage technologies are well advanced but still need to be adapted for multi-species of different biomechanical requirements and attraction flow at the entrance [...] For more details, please find at: https://www.mdpi.com/journal/water/special_issues/fish_passage_hydropower_dam_II Also welcome to read papers published in our 1st volume for free: https://www.mdpi.com/journal/water/special_issues/fish_passage_hydropower_dam

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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