

Special Issue

Impact of Climate Change on Structural and Functional Characteristics of Freshwater Ecosystems and Its Implications for Their Resources' Management

Message from the Guest Editors

Freshwater ecosystems, such as lakes, rivers, and wetlands, are vital for water supply, nutrient cycling, and biodiversity conservation. However, they face increasing threats from climate change, which alters temperature, precipitation, and hydrological cycles. These changes affect ecosystem structure, including species composition and habitat diversity, while also disrupting critical functions like primary production and nutrient cycling. Such impacts pose significant challenges for natural resource managers tasked with maintaining ecosystem stability and services. Research is essential to develop adaptive strategies that mitigate climate change impacts, safeguard biodiversity, and promote ecosystem resilience. This Special Issue focuses on topics including, but not limited to: AI applications, biodiversity, biological assemblages, climate change, ecological resilience, ecosystem services, freshwater ecosystems, nutrient cycling, and temperature dynamics.

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