Special Issue

Beyond the Progress: Exploring the Trade-Offs of Biodiversity and Renewable Energy Technologies in Aquatic Ecosystems

Message from the Guest Editor

Biodiversity has been declining at an alarming rate in recent years, jeopardized by multiple factors, from global climate change to local anthropogenic pressures. Even though species loss results from multiple causes, human activities play direct roles. Often seen by governments and stakeholders as a viable solution to preserve biodiversity and achieve the Sustainable Development Goals, renewable energy technologies, including those derived from water (hydro and tidal), wind power, solar irradiation, biomass (biofuels and wastes), and geothermal heat, are not “impact free” and can also harm ecosystems in multiple ways, depending on factors such as their project design, location, installation methods, and materials. We welcome studies that investigate concepts and applications of biodiversity assessment and preservation, and their interaction with new technologies, including dams, water intake and cooling systems, tidal energy, offshore wind and solar farms, and underwater transmission cables, as well as the influence of environmental sensors, tools, and emerging technologies such as artificial intelligence (AI).

Guest Editor

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Diversity (ISSN 1424-2818) is a scholarly journal that covers all areas of diversity research. Our distinguished editorial board and refereeing process ensures the highest degree of scientific rigor for publishing. Original research articles and timely reviews are released online, with unlimited free access.
We invite papers and reviews on multidisciplinary topics of diversity that bridge organismic diversity (systematics, biodiversity, phylogeny, population genetics, and evolution) and molecular diversity (phytochemistry and biophysics).

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