

*Editorial*

Introducing Aquatic Life and Ecosystems

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On behalf of the editorial team, I am pleased to launch a new journal, *Aquatic Life and Ecosystems* (*ALE*). The 21st century presents both unprecedented challenges and exciting opportunities for aquatic sciences. Climate change, pollution, biodiversity loss, and anthropogenic alterations to freshwater and marine habitats profoundly influence aquatic ecosystems worldwide. In tandem, advances in genomic technologies, remote sensing, ecosystem modeling, and integrative ecological approaches are equipping researchers with innovative tools to investigate, monitor, and restore aquatic environments. In this dynamic context, there is a growing demand for a dedicated academic platform that not only disseminates cutting-edge research but also fosters interdisciplinary discourse across the diverse subfields of aquatic biology, ecosystem science, environmental management, and aquatic biotechnology. *ALE* emerges as a timely response to this need, aiming to capture the breadth and depth of aquatic science and to highlight the intricate interactions among biotic and abiotic components of aquatic systems.

1. Vision and Mission

ALE aspires to serve as a source of peer-reviewed research spanning freshwater, estuarine, and marine ecosystems. It promotes integrative studies that link biodiversity patterns, ecological processes, and human impacts. This journal provides a platform for methodological innovations, policy-relevant studies, and applied research in aquaculture, conservation, and ecosystem restoration. Through this platform, we will facilitate global dialogue among ecologists, oceanographers, limnologists, aquaculturists, fishery biologists, environmental scientists, and resource managers. *ALE* journal commits to scientific rigor, editorial integrity, and inclusivity of perspectives across geographic regions, especially from underrepresented ecosystems and research communities.

2. Aims

ALE is a gold open-access, peer-reviewed journal dedicated to disseminating high-quality research that advances our understanding of the biology, ecology, and sustainable management of aquatic organisms and ecosystems. It promotes integrative and multidisciplinary approaches to studying aquatic life, encompassing molecular biology, physiology, behavior, ecology, and evolution. The journal supports developing applied research that informs conservation strategies, habitat restoration, sustainable fisheries and aquaculture practices, and environmental policy. *ALE* seeks to serve as a comprehensive platform and vital resource for researchers, practitioners, and policymakers involved in aquatic sciences and ecosystem management. *ALE* is published quarterly online by Scilight Press.

3. Scope

The journal accepts original research articles, review papers, methodological advancements, and brief communications contributing novel insights or syntheses. Interdisciplinary submissions that bridge natural and social sciences or integrate science with policy are particularly encouraged. The journal welcomes submissions that explore the biology, ecology, and interactions of aquatic organisms, as well as the structure, function, and health of aquatic ecosystems. Areas of interest include, but are not limited to:

- **Aquatic Ecology and Biodiversity:** Studies on species interactions, community dynamics, population biology, trophic structures, and ecosystem functioning in aquatic environments.



- **Aquatic Organismal Biology:** Research on the physiology, behavior, genetics, evolutionary biology, and life history of aquatic organisms, ranging from microorganisms and invertebrates to fish, reptiles, and aquatic mammals.
- **Aquaculture and Fisheries Science:** Sustainable aquaculture practices, fishery resource management, stock assessments, and innovations in breeding, nutrition, and health management.
- **Aquatic Environmental Change:** Impacts of climate change, eutrophication, acidification, and hydrological modifications on aquatic systems and their biota.
- **Conservation and Restoration Ecology:** Strategies for protecting endangered aquatic species, restoring degraded habitats, and enhancing ecosystem resilience.
- **Pollution and Ecotoxicology:** Effects of contaminants such as heavy metals, microplastics, and emerging pollutants on aquatic life and water quality.
- **Hydrobiology and Biogeochemistry:** Interactions between biological processes and chemical cycles in aquatic systems, including nutrient dynamics and carbon cycling.
- **Integrated Management and Policy:** Socio-ecological approaches to the governance of aquatic resources, including ecosystem-based management, marine spatial planning, and community-based conservation.

We encourage submissions that employ cutting-edge technologies, such as molecular tools, remote sensing, modeling, and data-driven analytics, as well as interdisciplinary studies that integrate biological, physical, and social sciences, promoting the exchange of knowledge among researchers, policymakers, and practitioners working across freshwater, estuarine, and marine environments.

The editorial team invites scholars to contribute, review, and engage with the journal. We encourage submissions that challenge paradigms, integrate disciplines, and offer actionable knowledge for aquatic resource sustainability. We share responsibility among researchers, practitioners, and policy-makers in addressing the pressing issues facing aquatic environments that impact aquatic research globally.

Conflicts of Interest

The author declares no conflict of interest.