

Special Issue

Ecophysiology for Sustainable Crustacean Aquaculture

Message from the Guest Editor

Crustacean aquaculture faces increasing challenges due to environmental variability and anthropogenic stressors, requiring innovative and science-based approaches to ensure sustainability, productivity, and animal welfare. This Special Issue aims to gather contributions of cultured crustaceans on:

- Ecophysiological responses to environmental stressors (temperature shifts, salinity fluctuations, pH changes, pollutants, hypoxia);
- Health, welfare, and immunophysiological biomarkers as early-warning indicators for stress and disease;
- Management of water quality, development of sustainable feeds, and implementation of circular bioeconomy approaches that enhance climate resilience;
- Integrative methodologies (omics technologies, modelling frameworks, risk assessment) to improve resilience, adaptation, sustainability, and productivity.

By merging physiological, ecological, and technological perspectives, the Issue promotes strategies that support both the environmental sustainability and economic viability of crustacean aquaculture. Original research, reviews, and case studies are invited to advance understanding of building resilient and responsible aquaculture systems under global change.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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