

## Special Issue

# Advances in Aquatic Animal Nutrition and Aquaculture

### Message from the Guest Editors

Animal nutrition is among the paramount factors for excellent animal performance, health, and welfare. Considerable progress has been achieved in the nutrition of aquatic animals; different commercial aquafeeds and nutritional tables are functional and optimized. With an interdisciplinary perspective, the present Special Issue is dedicated to presenting and discussing the state-of-the-art in aquatic animal nutrition, focused on farmed aquatic vertebrate and invertebrate species. Studies on all related topics to aquatic animal nutrition are welcome:

- Feeding behavior, feeding protocols, and precision farming;
- Feeding management techniques, pellet quality, and ingredient evaluation;
- Feed delivery methods and automated feeding systems;
- Circular bioeconomy, including the use of by-products and food waste;
- Biofloc and green water;
- Nutrition and immune responses, including nutritional and non-nutritional immunostimulants;
- Omics technologies, including nutrigenomics and nutriproteomics;
- The microbiome and gut health;
- Non-nutritive aquafeed additives.

---

### Guest Editors

Dr. Cecilia de Souza Valente

School of Biological and Chemical Sciences, College of Science and Engineering, University of Galway, Room 209, Arts Science Building, Galway City H91 TK33, Ireland

Prof. Dr. Eduardo Luis Ballester

Aquaculture and Sustainable Development Post-Graduation Program, Federal University of Paraná, Palotina 85950-000, PR, Brazil

---

### Deadline for manuscript submissions

closed (20 February 2026)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/207104](https://mdpi.com/si/207104)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )