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Special Issue Reprint

Advances in Aquaculture Feed Additives

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This Reprint showcases cutting-edge research that highlights the growing importance of feed additives in shaping the future of sustainable aquaculture. As the sector continues to expand worldwide, innovative nutritional strategies are essential to improve production efficiency, animal robustness, and environmental responsibility. The studies brought together in this Reprint demonstrate how feed additives have become powerful tools to meet these emerging demands. The collection features a diverse range of functional ingredients, including bioactive compounds, plant-based additives, microbial products, pigments, amino acids, and alternative protein sources. Across different species and production systems, the contributions illustrate how targeted dietary interventions can enhance growth performance, feed utilization, gut health, immune responses, stress resilience, and product quality. Sustainability and innovation are central themes throughout this Reprint. Several studies emphasize reduced reliance on finite marine resources, the valorization of alternative ingredients, and the application of circular economy principles in aquafeed development. The use of metabolomics and other omics-based approaches further highlights the scientific progress driving precision nutrition in aquaculture. By bridging fundamental research and practical application, this Reprint offers valuable insights for researchers, industry professionals, and stakeholders seeking science-based solutions to advance modern aquaculture and strengthen its role in global food systems.



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