

Special Issue

Innovative Approaches in Animal Nutrition and Feed Additives: Enhancing Productivity and Product Quality

Message from the Guest Editors

Animal nutrition is undergoing a global transformation, driven by the need for sustainability, efficiency, and high-quality animal products, while prioritizing animal health and welfare. This shift is accelerating the development of advanced nutritional strategies and next-generation feed additives, setting new benchmarks in modern animal agriculture. This Special Issue explores how innovative nutrition can enhance growth performance, improve the quality of meat, milk, and eggs, and reduce the environmental impact of production. Emphasis is placed on ethical, sustainable farming and the animal-human dynamic. Key areas include precision nutrition, functional feed ingredients, bioactive compounds, probiotics, prebiotics, enzymes, and phytochemical additives. Attention is also given to nutrition's role in promoting welfare, stress resilience (e.g., heat stress, disease), and microbiome modulation. Interdisciplinary studies connecting nutrition, physiology, microbiology, sustainability, and animal behavior are encouraged, offering solutions to support evolving animal production systems and consumer demand for healthier, sustainable products.

Guest Editors

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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

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