

Topical Collection

Nanotechnology in Animal Science

Message from the Collection Editors

Recently, the nanotechnology revolution has pervaded all fields related to animal science; however, its application in animal medicine and production is still scarce. Different nanoparticles and nanoparticles-based systems have been developed for specific purposes, such as rapid and robust disease diagnosis and treatment, drug delivery systems, animal nutrition, reproduction management, and assisted reproductive techniques. It can also provide new tools for studying molecular and cellular biology and animal genetics. The differences in nanoparticle preparation protocols, physiochemical properties, and applications make this branch of science worthy of study, aiming to better understand the benefits, limitations, and hazards of this technology when is used in the field of animal science.

In this Special Issue, we invite original research papers and reviews or studies addressing nanotechnology applications in the fields of animal physiology, nutrition, reproduction, biotechnology, and health/disease, as well as issues related to the hazards and toxicity of nanomaterials.

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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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