Special Issue

Nanomaterials in Foods: Food Additives, Delivery Systems, Detection, and Safety

Message from the Guest Editor

Nanoparticles have been widely applied in the food industry. Silica (SiO_2), zinc oxide (ZnO), and titanium dioxide (TiO_2) are utilized as a food additive anti-caking agent, Zn-fortifier, and pigment, respectively. Protein-, carbohydrate-, and lipid-based delivery systems have been developed for enhancing the stability and bioavailability of nutrients or functional foods. Nanomaterial-based systems for the detection of toxicants or microorganisms in foods or agricultural products have also been developed. As nanomaterials are added to a complex food system, the presence of various food components will affect the efficacy, safety, and fate of nanoparticles in food matrices. This Special Issue will focus on the determination and fate of food additive nanoparticles (SiO_2, TiO_2, ZnO, etc.) or nutraceutical delivery nanocarriers in foods, including their interactions with food matrices and the effects of these interactions on biological responses... For further reading, please follow the link to the Special Issue website at: https://www.mdpi.com/si/41155

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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