Special Issue

Nanoparticles for Biomedical and Cosmetic Applications

Message from the Guest Editor

Nanotechnology has, over the past decades, emerged as a key-enabling technology in the quest for novel diagnostics and therapeutic agents, in multiple biomedical applications. Driven by the unique characteristics of these minuscule materials that allow selective treatment at low dosages while restricting their function to the targeted anatomical site, nanoparticles have found their way from research to commercialization. As the ecosystem of bio-oriented nanotechnology continues to grow, nanomaterials have rapidly migrated from medical to cosmetic applications, with the commercialization of the latter significantly outpacing the former. Despite this, the challenges the scientific community faces are quite similar for both, questioning whether analytical methods are suitable to decode their toxicological profile and whether they account for the complex physico-chemical properties and their bio-physical interactions. This Special Issue is intended as a platform for the publication of new developments concerning metallic nanomaterials in the field of personal/health care and welcomes the following contributions: original research, communications, methodologies, and reviews.

Guest Editor

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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