Special Issue

Biocompatible Dental Nanomaterials: State of the Art and Perspectives

Message from the Guest Editors

Given the COVID-19 pandemic, this historical moment calls for reflection in the field of dentistry. All procedures must be effective and safe, especially for patients who are considered phenotypically “fragile”. One method to reduce the risk of contamination by pathogens during procedures is to adopt technological innovations that make procedures minimally invasive. Indeed, minimally invasive technology will be a keyword of the future. Our Special Issue not only deals with minimally invasive surgery, but includes all those nanomaterials that guarantee minimally invasive treatment. This includes the latest generation of scaffolds made of state-of-the-art biocompatible nanomaterials, the use of scanners in prosthetics and digital orthodontics, digital periodontal records, second-level X-ray examinations, the latest generation of powders used as an aid in dental hygiene sessions, and artificial intelligence or decision-support systems to ensure an objective, unbiased diagnosis.

Guest Editors

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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.

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