Special Issue

Biomaterials and Mechanics in Dentistry

Message from the Guest Editors

Different types of dental biomaterials have been introduced into the market to meet the expectations of both dentists and patients. The aim of basic and developmental research is to continuously improve their clinical properties (such as life span), biocompatibility, antimicrobial properties, mechanical properties, tribological characteristics, and toxicity. Many studies explore the development of new materials, while others focus on the investigation of commercially available products in the context of their role in the oral environment or the use of modern technologies used for processing. Considering that dental biomaterial products should be compatible with biological systems, knowledge of biomechanical engineering also plays an extremely important role in their design. Interdisciplinary research which combines the principles of materials science and mechanical engineering with medical sciences must be carried out to improve our understanding. For this purpose, we invite you to submit a manuscript for this Special Issue. Original research articles and reviews related to any of the topics mentioned above are welcome.

Guest Editors

Prof. Dr. Grzegorz Chladek

Prof. Dr. Jaroslaw Zmudzki

Prof. Dr. Monika Lukomska-Szymanska

Deadline for manuscript submissions

closed (20 December 2023)

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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