Special Issue

Biomaterials Research in Oral Health and Clinical Dentistry

Message from the Guest Editors

Biomedical implants are used for rehabilitating the loss function of the body, such as mastication, walking as well as aesthetics, able to be performed with traditionally available titanium-based implants. However, the current advancements of novel technologies (e.g., 3D or 4D printing, CAD–CAM, selective laser melting, additive manufacturing) have optimized the clinical gaps in using biomedical implants in dentistry and orthopaedics. The use of these technologies reduces the chances of stress shielding, implant failure due to load and antimicrobial coverage, and the coating of biomedical implants with the help of bone morphogenic proteins, hydroxyapatite, bioactive glasses, magnesium, graphene, carbon, metal, metallic oxide, metallic hydroxide, etc., can help in reducing microbial contamination, providing long-term clinical success. This Special Issue invites researcher/academicians to submit original full papers, communications and comprehensive reviews describing the latest progress in implant design, surface coating, surface modification and biomechanics for dentistry and orthopaedics.

Guest Editors

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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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