Special Issue

Surface Treatment of Implant Materials

Message from the Guest Editors

From the range of dental implant materials which have been developed, titanium and its alloy are currently the most widely used. The implant surface is one of the most important determinants of the condition of the surrounding tissue. The surface treatment of implants is based on the concept of “osseointegration”, and it has recently undergone dramatic improvement. However, as well as bone contact, the seal between the dental implant and the surrounding gingival tissue also contributes to the success of an oral implant. This is because a tight seal between the epithelium and surface is required to protect the underlying tissues from undesirable stimuli, such as bacterial invasion. In this topical collection, by investigating the processes of both bone formation and soft tissue healing around the materials with various surface treatments, we consider the potential improvements that could be made to ensure successful implant treatment. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

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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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