Special Issue

Advanced Materials and Techniques for Dental Implant Treatment

Message from the Guest Editor

Regarding new trends in implant materials, metal-free solutions are obviously on the rise. This may be due to higher demands on implant esthetics and also due to an increasing desire for biocompatibility and long-term safety. Moreover, fabrication techniques have been revolutionized, and chair-side manufacturing is offering unforseen possibilities. Novel techniques are also suggested for the surgical phase of implant installation. The underlying goal of innovative surgical techniques is to minimize surgical invasion and thus reduce surgical trauma and postoperative patient morbidity. Minimally invasive techniques embrace flapless and guided implant placement as well as transcrestal sinus floor elevation and tunneling techniques for hard and soft tissue augmentation. The research published in this Special Issue may help to explore the possibilities and limitations of advanced materials and techniques for dental implant placement so that these innovations may offer a step into the right direction rather than a setback from the established level of evidence-based dental care.

Guest Editor

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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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