Special Issue

Advances in Metal-Based and Ceramic-Based Dental Materials

Message from the Guest Editor

Recently, the development and progressive of dental CAD/CAM technology and adhesive technology has enabled widespread use of novel dental materials. Subtractive manufacturing and additive manufacturing are the main categories of CAD/CAM systems using metal, ceramic, and composite materials to fabricate dental prostheses, orthodontic appliance and surgical guide, etc. Subtractive manufacturing processes like milling could reduce flaws and pores which may be caused by the casting process under high industrial standards. Additive manufacturing processes like selective laser melting (SLM) could produce the metal substrate by fusing metal powder in layers without much porosity. There is still not enough evidence to research new materials and processing procedures using the novel technology. Traditional casting techniques are still the dominant methods in dental metal processing. Thus, we are pleased to invite you to submit a manuscript including original research articles and reviews for this Special Issue concerning any kinds of advances in metal-based and ceramic-based dental materials.

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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