Special Issue

Dental Biomaterials: Synthesis, Characterization, and Applications

Message from the Guest Editors

Dental biomaterials play a crucial role in modern dentistry, contributing to the development of durable, biocompatible, and esthetically pleasing restorations. Advances in material science have led to innovative dental materials with enhanced mechanical properties, bioactivity, and longevity. The synthesis and characterization of these materials are fundamental in ensuring their clinical success and optimizing their performance in various applications, including restorative dentistry, prosthodontics, orthodontics, and implantology. This Special Issue of *Materials* aims to explore the latest advancements in dental biomaterials, focusing on their synthesis, characterization techniques, and clinical applications. Topics of interest include novel composite resins, bioactive ceramics, hybrid polymers, nanomaterials, adhesives, and regenerative biomaterials. Additionally, studies on mechanical behavior, surface modifications, biocompatibility, and the long-term performance of dental materials are welcome.

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Message from the Editorial Board

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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