Special Issue

Advances in Dental and Implant Materials

Message from the Guest Editor

The field of dentistry is undergoing a profound transformation, driven by significant innovations in dental and implant materials. This Special Issue seeks to highlight the latest advances in dental and implant materials that enhance performance, promote osseointegration, and improve patient outcomes. We welcome contributions on a broad range of topics, including novel high-strength ceramics, smart responsive materials, and antimicrobial strategies. A significant focus will be on pioneering research in implant surface modifications—from micro/nano-topographical engineering to bioactive coatings—designed to accelerate osseointegration and establish immunomodulatory effects. Additionally, we encourage submissions on emerging areas such as piezocatalytic materials, which harness mechanical stimuli for antibacterial therapy and tissue regeneration. Studies leveraging digital technologies (e.g., CAD/CAM, 3D printing) for material fabrication are also of great interest. This Special Issue aims to provide a platform for original research and reviews that bridge fundamental material innovation with clinical applications, shaping the future of dental care.

Guest Editor

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Deadline for manuscript submissions

30 April 2026

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/256930

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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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