Special Issue

Biomechanical and Metallurgical Behavior of Endodontic and Restorative Materials

Message from the Guest Editors

Endodontics and restorative dentistry have thoroughly changed in recent years, both due to the remarkable advances and innovations of related technologies, instruments, and materials.

This Special Issue will include (but will not be limited to) mechanical and metallurgical properties of NiTi endodontic rotary instruments and hydraulic-calcium-silicate-based instruments for obturation, pulp capping, and regenerative and surgical endodontic procedures. Moreover, since endodontic therapies must be followed by proper post-endodontic restoration, attention should also be focused on the mechanical and biological aspects of restorative materials, paying particular attention to the relationship between the materials, preparation, and fracture percentage of endodontically treated teeth. It is absolutely important that this topic is explored in depth, as this will allow us to obtain more information on how endodontic treatment, with less invasiveness, can influence the prognosis of compromised dental elements, restored with current materials that allow for a safe upgrade in terms of resistance and prognosis.

Guest Editors

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Deadline for manuscript submissions

20 November 2025

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/210639

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mdpi.com/journal/materials

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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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