Special Issue

Innovations in Dental Biomaterials: Mechanical Properties and Bonding Challenges

Message from the Guest Editors

We are pleased to announce a forthcoming Special Issue dedicated to biointeractive restorative materials, a rapidly evolving field at the intersection of material science, biomedicine, and clinical innovation. We invite submissions exploring novel approaches, materials, and technologies that integrate bioactivity into dental medicine. As dentistry continues to evolve toward minimally invasive and biologically driven solutions, innovative materials that combine mechanical reliability with superior bonding to tooth structures are critical. Interesting topics include changes in the production and composition of dental materials and new application techniques, but also issues in the field of the impact of environmental factors on the long-term survival of dental fillings in the oral cavity. Additionally, articles may cover composite resins, glass ionomer cements, root canal fillings and dental ceramics. This Special Issue aims to showcase cutting-edge original articles, alongside clinical studies, communications, and reviews, that redefine how restorative materials interact with biological systems to promote healing, regeneration, and long-term functionality.

Guest Editors

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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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