

## Special Issue

# Smart Materials for Dental Applications and Implants

### Message from the Guest Editors

In the last decade, both evolutionary and revolutionary trends in the field of dental materials science have been noted. In the meantime, the antibacterial self-healing dental nanocomposites whose “strategic” actions are bioinspired represent the smart materials able to assure an extended life for dental restorations. The complexity of obtaining, functioning, and applying intelligent materials in dentistry involves the harmonious combination of knowledge and co-operation of specialists working in the most varied fields: materials science, analytics, complex material characterization, dental studies, in vitro and in vivo clinical determinations, microbiology, machine learning. This Special Issue aims to bring in front original works and studies on identifying novel dental smart materials and on developing and applying novel experimental and computational methods for understanding their dynamics, functional mechanisms, and interactions with the oral environment, as well as review papers on dental smart materials. The Special issue is focused on the used of the smart materials in all fields of dentistry.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 October 2023)



## Materials

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Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



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## About the Journal

### 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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