

Special Issue

Progress and Prospects in Dental Materials and Endodontic Sciences

Message from the Guest Editors

Endodontic and dental materials are key to modern clinical success. Advances in bioceramics, bioactive resins, nanomaterials, and smart delivery systems have improved biocompatibility, durability, and functionality, transforming root canal and restorative procedures.

These innovations enhance outcomes and address microbial leakage, post-treatment failure, and tissue regeneration. With increasing focus on chemical, mechanical, and biological properties—including cytotoxicity and genotoxicity—integrated research is essential. This Special Issue features studies on the development, characterization, and clinical performance of endodontic and restorative materials, linking material science with clinical practice in dental biomaterials, bioengineering, and therapeutic technologies. Scope includes:

- Novel sealers and obturation materials
- Bioceramic and bioactive materials in pulp therapy
- Mechanical and chemical characterization
- Biocompatibility assessments
- Antimicrobial and functional properties
- Nanomaterials, smart systems, regenerative scaffolds
- Surface modification and adhesion to dentin
- Long-term performance and degradation
- 3D printing and digital workflows

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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