

Special Issue

Nanocomposites as Implantable Devices or Drug Delivery Platforms: A New Insight into Treat Dental and Oral Diseases

Message from the Guest Editors

Nanocomposites are multiphase materials where at least one component is in the nano-scale range. Due to their unique properties, they are currently spotlighted as versatile and innovative dosage forms. Their multifunctional components could determine targeted drug delivery and co-administration of incompatible actives, offering innovative treatment options for periodontitis, oral lichen planus (OLP), medication-related osteonecrosis of the jaw (MRONJ), and oral cancers. Nanocomposites can mitigate any systemic side effect by ensuring localized and controlled release of synthetic drugs and natural compounds with pronounced anti-inflammatory, antioxidant, anticancer, wound healing, antibiotic, and osteoinductive activities while improving treatment effectiveness and success.

This Special Issue will cover all the advances, challenges, and future perspectives in using active-loaded nanocomposites to manage dental and oral diseases. Literature reviews and research papers concerning developing nanocomposite-based innovative drug delivery systems (e.g., bone substitutes, covering materials, gingival patches of films, periodontal injectable in situ gelling matrices, etc.) are welcome.

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