Special Issue

Gels for Oral, Maxillofacial, Dental Medicine or Cosmetic Use

Message from the Guest Editors

Gels are integral to oral, maxillofacial, and dental medicine, as well as cosmetic applications, providing both therapeutic and aesthetic benefits. These formulations are widely used for oral mucosal healing, analgesia, antimicrobial action, periodontal therapy, and enamel protection. In maxillofacial medicine, gel-based formulations facilitate wound healing, minimise scarring, and support post-surgical tissue regeneration. In cosmetic science, gel-based technologies have significantly advanced aesthetic interventions, including dental whitening, facial rejuvenation, and dermal augmentation. Gel-based formulations' continuous evolution—integrating biocompatible, regenerative, and stimuli-responsive materials—is advancing patient care, therapeutic precision, and aesthetic outcomes. Future advancements in smart hydrogels and bioengineered gel-based systems will further personalise treatment strategies, enhancing efficacy in oral and maxillofacial medicine. This Special Issue focus on Gel-based formulations in oral, maxillofacial, and dental medicine, as well as cosmetic applications. Both original articles and reviews are welcome.

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About the Journal

Message from the Editor-in-Chief

Gels (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

Editor-in-Chief

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