



Bioinspired Materials for Dentistry

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Message from the Guest Editors

In recent years, bioinspiration in conjunction with advanced materials design and fabrication technologies are starting to converge toward a fundamentally novel approach to offer more successful and cost-effective materials for dentistry.

Dental diseases such as caries, gum inflammation, soft tissue ulceration, oral cancer, and tooth loss compromise lifestyle and quality of life. Many dental materials in the market target these diseases, but there is a need for novel biomaterials which can mimic biomolecules and their biochemical activities. Traditional dental materials such as dental ceramics, resin-based dental composites, and dental implants have reported materials failures and inflammatory complications. Improvements such as enhanced reliability, longevity, and biocompatibility are urgently needed to reduce the negative impact on quality of life and high costs to the healthcare system. These materials can be modified with the help of recombinant technology, omics technology, or protein synthesis for improved clinical outcomes.





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Message from the Editor-in-Chief

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