

Special Issue

Biomaterials and Technology for Oral and Dental Health

Message from the Guest Editors

This Special Issue seeks to showcase advances at the interface of biology and engineering that harness natural processes for environmental sustainability. As global challenges such as pollution, ecosystem degradation, and climate change intensify, the need for innovative, nature-based solutions (NbS) becomes increasingly urgent. Bioengineering provides powerful tools to design and optimize these solutions, from phytotechnologies that remediate air, water, and soil systems to bio-inspired materials and engineered ecological processes that restore resilience in natural and built environments. We particularly welcome contributions that highlight how biological mechanisms can be leveraged for environmental applications, such as air and water purification, microbial bioremediation, or the integration of living systems into engineered infrastructures. Recent discoveries illustrate how fundamental biological processes can offer novel pathways for improving air and water quality, mitigating climate impacts, and safeguarding public health. Our goal is to highlight bioengineering as a critical enabler of sustainable development and resilient, nature-integrated solutions for the future.

Guest Editors

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Editor-in-Chief

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