

## Special Issue

# Orthodontic Treatment: Materials, Technologies and Applications

### Message from the Guest Editor

This Special Issue, “Orthodontic Treatment: Materials, Technologies and Applications”, invites authors to submit original and review papers that explore innovations in orthodontic materials, appliance design, digital workflows, and clinical applications. Emphasis will be placed on the integration of advanced materials, such as aligner materials and shape-memory materials with emerging digital tools, including artificial intelligence, finite element analysis, 3D printing, and augmented-reality-assisted diagnosis and treatment planning. Studies addressing biomechanical optimization, aligner mechanics, mini-implant biomechanics, and patient-specific appliance fabrication are particularly welcome. Moreover, interdisciplinary approaches that connect materials science, digital dentistry, and clinical orthodontics will be highlighted to provide a comprehensive overview of current and future research directions. Through this Special Issue, we aim to foster collaboration among clinicians, engineers, and researchers, contributing to more efficient, predictable, and patient-centered orthodontic treatments.

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### Guest Editor

Prof. Dr. Sung-Hoon Lim  
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### Deadline for manuscript submissions

10 June 2026



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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