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Orthodontic Materials and Adhesive Interfaces

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Message from the Guest Editors

Dear Colleagues,

Orthodontics is a specialty of dentistry that studies the diagnosis, prevention, and correction of malpositioned jaws and teeth. Orthodontic fixed therapy moves the patient's teeth, usually with brackets and wires. During orthodontic treatment, bonding between the bracket and the enamel has to be strong enough to withstand masticatory stresses and shear forces. Bracket failure is a common problem in orthodontics that is disturbing for both the clinicians and patients. Moreover, bond failures can influence treatment duration, total costs, and chair time. Unwanted bracket detachment can be due to bracket base characteristics, masticatory forces, bonding technique, or enamel contamination. As the current technologic improvements face clinicians with new materials and techniques, adhesive properties should be continuously studied and tested. In vivo and in vitro investigations could help orthodontists to increase their knowledge about material behaviour. *Materials* is preparing a Special Issue focused on Orthodontic Materials and Adhesive Interfaces.

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Message from the Editor-in-Chief

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