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Dental Biomaterials and Dentistry

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Message from the Guest Editor

New biomaterials are constantly being developed to respond to the need for better mechanical properties and biocompatibility in medicine and dentistry. This editorial would provide an overview of research from various backgrounds in order to provide insights into titanium and titanium-based materials in the field of dentistry and orthodontics as divided into the four distinctive areas of research studies on dental archwires: corrosion of dental archwire surface; corrosion and wear properties of new and in vivo exposed nickel titanium (Ni–Ti) and stainless steel (SS) orthodontic archwires; biocompatibility and nickel release, especially of Ni–Ti archwires; and versatile surface treatments to tailor properties, such as oxidation procedures, and different coatings on dental archwires.

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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