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New Frontiers in Laser Assisted Oral Surgery

Guest Editor:

Prof. Dr. Marina Consuelo Vitale
Department of Clinical, Surgical, Diagnostic and Paediatric Sciences, Unit of Orthodontics and Peadiatric Dentistry University of Pavia, 2, piazzale Golgi, 27100 Pavia, Italy

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Message from the Guest Editor

In the last 30 years, the evolution of technologies has allowed the daily use of laser device in dentistry. Since the introduction of laser in clinical practice, different wavelengths have been used for oral surgery on the basis of the different characteristics and affinities of each one.

CO_2 lasers, Neodymium-Doped Yttrium–Aluminium–Garnet (Nd:YAG) and diode lasers have mainly been used for periodontal soft-tissue management. With development of Erbium-Doped Yttrium–Aluminium–Garnet (Er:YAG) and Erbium, Chromium-Doped Yttrium–Scandium–Gallium–Garnet (Er,Cr:YSGG) lasers, which can be applied not only on soft tissues but also on dental hard tissues, the application of lasers dramatically expanded from periodontal soft-tissue management to hard-tissue treatment. Nowadays, various periodontal tissues (such as gingiva, tooth roots and bone tissue), as well as titanium implant surfaces, can be treated with lasers, and a variety of dental laser systems are being employed for the management of periodontal and peri-implant diseases.

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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