Special Issue

Numerical and Biomechanical Analysis in Bioengineering

Message from the Guest Editor

Maxillofacial surgery is a rapidly developing domain. Traumatology and orthognathic surgery are the “parents” of this field, and thus, osteosynthesis is still the main tool in our hands. Dozens of dedicated plates for mandible condyle fixation, hundreds of plates of 1.5, 2.0, 2.4 or 2.7 systems, and multiple screws (locking, compressing) are used today—and to make it even harder to choose the right one, polymer, titanium or resorbable alloys materials are widespread. This Special Issue aims to encourage scientists to take on the challenge and help to choose the best, most effective, most promising, and most suitable strategy for treating people by publishing the results of material tests. I would also like to encourage you to test your custom implants (TMJ replacements, orthognathic plates, personalized overlay implants, etc.), which are possible to make thanks to the good availability of CAD/CAM techniques. Subtractive and additive manufacture methods of special material for maxillofacial surgery should be analyzed. This Special Issue aims to focus the maxillofacial osteosynthesis.

Guest Editor

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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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