



materials



an Open Access Journal by MDPI

Numerical and Biomechanical Analysis in Bioengineering

Guest Editor:

Prof. Dr. Marcin Kozakiewicz

Department of Maxillofacial
Surgery, Medical University of
Lodz, 113 Żeromskiego Str., 90-
549 Lodz, Poland

Deadline for manuscript
submissions:

closed (20 August 2022)

Message from the Guest Editor

Dear Colleagues,

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.

Prof. Marcin Kozakiewicz

Guest Editor



mdpi.com/si/44674

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)