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Maxillofacial Prosthetic and Reconstructive Materials

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Deadline for manuscript submissions:
closed (10 August 2024)

Message from the Guest Editor

Dear Colleagues,

Traditional facial prosthetic materials are constructed primarily from copolymers and elastomers that are flexible, stretchable and provide adequate translucency to permit reasonable color matching with surrounding facial skin. Facial reconstructive biomaterials are intended to replace the form and function of missing tissues. Ideally, these materials exhibit biomimetic qualities, either as stand-alone materials or in combination with cell-based strategies.

Recent advances in science and technology offer new avenues for materials development through incorporation of nanoscience, advanced imaging, additive manufacturing and novel chemistries, to name a few. This presents a new realm of exciting strategies for producing advanced prosthetic and reconstructive materials that are essential to delivering state-of-the-art care.

Compared to other biomaterials, facial materials research receives little attention and is granted little research funding. This Special Issue of Materials affords the opportunity to document current developments in the field and inspire thought for innovative approaches towards future research that embraces a wide range of scientific expertise.

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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.

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