Special Issue

Biomedical Materials Investigated with Optical Methods

Message from the Guest Editors

The aim of this Special Issue is to bring together optical and non-optical methods for both the in vitro and/or in vivo characterization of biocompatible materials. Of significant interest are innovative topics such as OCT, as well as emerging techniques, but also the correlation of a range of methods (as mentioned above) to design, test, optimize, or assess the results of implementation biomaterials, as well as corresponding tissue. Developing and testing dedicated systems and probes, alongside image and data processing to optimize biomaterials assessments, are also encouraged. While this forum is open to all researchers in the fields above, it also provides a topical selection of papers presented at the Second International Conference '*Advances in 3OM: Opto-Mechatronics, Opto-Mechanics, and Optical Metrology',* organized in Timisoara, Romania – European Capital of Culture 2023, and is also in the frame of UNESCO's International Day of Light (IDL). All types of contributions, i.e., research papers, reviews, and communications, are welcome.

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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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