Special Issue

Ultrafast Photonics for Biomedical, Biological and Life Science Applications

Message from the Guest Editors

Courtesy of its ultimate precision, ultrafast laser patterning has become a widespread technique for the micro- and nanostructuring of bulk as well as surface modification of a wide variety of materials and tissues. Ultrafast laser-induced surface and bulk functions have frequently been reported on in the literature concerning biocompatible materials and biological tissues/organs, with current hot topic functions such as repellent surfaces, antibacterial and antivirus surface properties, etc. We would like to encourage researchers to showcase their latest research findings through the upcoming Special Issue, to share their most recent results related to bulk or surface processing with femtosecond and picosecond pulses of biological tissues and/or biocompatible materials with the scope of rendering a local function of interest in the biomedical, biological, and life science domains. Particular interest is devoted to advanced laser beam delivery (to the site of interest) and modifications at the micrometric and/or nanometer level, as these scales are well-adapted for ultrafast laser irradiation.

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