Special Issue

Laser Technologies in Metal-Based Materials

Message from the Guest Editor

The creation of laser served as the foundation for several new scientific fields. Fundamental achievements in these areas, in turn, formed the ground for several laser-related technologies. In addition, laser technologies remain a highly advanced science-based area, which is under continuous refinement and development. Numerous modern-day knowledge-intensive instruments and devices are based on various phenomena related to metal nanostructures. These phenomena are of great importance as a fundamental background in novel electrochemical sensors, light energy conversion and charge storage systems, etc. Thus, devices based on metal nanostructures provide advanced solutions for a wide spectrum of problems in electronics, optoelectronics, photonics, diagnostics and theranostics, drug delivery, various types of catalysis, and so on. This Special Issue aims at bringing the fields of laser technologies and metal nanostructures together for the benefit of both. We shall cover here all different aspects, from laser technologies of synthesis of metal-based functional nanomaterials to technologies originating from interaction of laser light with metal-based nanostructures.

Guest Editor

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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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