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Advances in Photothermal Characterization of Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (20 March 2023)

Message from the Guest Editor

Dear Colleagues,

Photothermal science and techniques continue to attract the attention of the scientific and engineering communities. The non-destructive nature of these techniques, together with the high accuracy of materials characterization achieved, have extended the application field of photothermal techniques to the study of complex materials and metamaterials. Optical properties, thermoelastic properties, process monitoring, non-invasive and non-destructive detection and the characterization of defects in components from micro- to macroscale, as well as biological and medical applications benefit from the advances in photothermal science and techniques.

In this Special Issue, we will emphasize and discuss advancements and modern trends in photothermal science and techniques, including advanced numerical modeling, the optimization and solution of inverse photothermal problems, non-destructive testing applications, artificial intelligence, and robotics-assisted photothermal systems. It is my pleasure to invite you to submit a manuscript for this Special Issue.

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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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