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Acousto-Optical Spectral Technologies

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Deadline for manuscript submissions:

closed (20 July 2023)

Message from the Guest Editors

It is our pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome. In this Special Issue, modern trends of acousto-optical spectral technologies, including the fundamentals and optimization of existing techniques, are highlighted and discussed.

This Special Issue will deal with research including but not restricted to the following:

- Acousto-optic materials and structures for UV, visible, IR, and THz ranges;
- Theoretical and experimental studies of light diffraction by ultrasonic waves;
- Acousto-optic and photoacoustic spectroscopy;
- Spectral imaging and tomography;
- Multispectral and hyperspectral acousto-optic imagers;
- Acousto-optic image and signal processing;
- Acousto-optic interference techniques;
- Novel applications in remote sensing, biomedicine, and industry.

This Special Issue also provides a forum for reports on technical developments that allow the spectral analysis of various objects. The goal of this Issue is to give readers an overview of the hot topics and the state of the art regarding the applications of acousto-optic spectroscopy techniques.





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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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