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Spectroscopic Methods for Applied Sciences and Study of Materials

Guest Editor:

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Deadline for manuscript submissions: closed (31 December 2020)

Message from the Guest Editor

It is with great pleasure that I present this Special Issue of the journal *Materials*, which aims to illustrate how spectroscopy methods can make a significant difference in the study of materials. The methods include, but are not limited to, optical absorption and emission spectroscopy (both stationary and time resolved), Auger electron spectroscopy, X-ray photoelectron spectroscopy, Raman and FTIR vibrational spectroscopy, nuclear magnetic resonance spectroscopy, energy loss. and cathodoluminescence spectroscopies up to theoretical spectroscopy, based on first principle density functional theory computations.

The goal of this issue is to bring the expertise and competences in different fields of science together spanning from photonics to analytical chemistry, from cultural heritage to environment, from electronic and thermal transport to biology and biomedicine—to give readers an overview of the hot topics and the state of the art regarding the application of spectroscopy techniques to materials science.

Keywords

- spectroscopy
- materials science





mdpi.com/si/38930





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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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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