Special Issue

Terahertz Vibrational Spectroscopy in Advanced Materials

Message from the Guest Editor

Vibrational spectroscopy may be defined as an identification tool to measure the various vibrational energies related to atomic bonds, interactions, and structures in materials. It covers infrared (IR), Raman, and inelastic neutron spectroscopies. These spectroscopies have been extensively used to study elementary excitations in the THz range such as phonon, polariton, magnon, exciton, plasmon, boson peak, etc. Investigations of various solid-state excitations, molecular relaxations, and dynamic processes by these advanced spectroscopies in the THz range provide new insights into physics, chemistry, mineralogy, geology, biology, pharmacy, medical science, life science, and engineering.

This Special Issue will be devoted to the terahertz vibrational spectroscopy of these various fields for hard and soft materials. Original research papers and review articles are cordially invited for submission.

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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