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New Vibrational Spectroscopy Developments of Material Characterization

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Message from the Guest Editors

Dear Colleagues,

We live in times of rapid development of new and functional materials, which not only improve the wellbeing of people, but also contribute to the growth of national economies. Material science goes hand-in-hand with the advancement of novel experimental techniques that deepen our understanding of the relationships between material properties and their functionality. This Special Issue, “New Vibrational Spectroscopy Developments of Material Characterization”, aims to address technological advances and applications of emerging methods for material characterization in vibrational spectroscopy.

Vibrational spectroscopy provides rich molecular-level information on material structure, surface conformational changes, the secondary structure of biomolecules, and interfacial behavior in neutral and electrified media. This great deal of advantages led to the spurt in the developments of new Raman and infrared absorption techniques as well as nonlinear vibrational sum frequency generation spectroscopy in the past couple of decades.

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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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