Special Issue

New Vibrational Spectroscopy Developments of Material Characterization

Message from the Guest Editors

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.

Guest Editors

Dr. Gediminas Niaura

Center for Physical Sciences and Technology, Sauletekio Ave 3, LT-10257 Vilnius, Lithuania

Dr. Martynas Talaikis

Institute of Biochemistry, Life Sciences Center, Vilnius University, Saulėtekio Ave. 7, LT-10257 Vilnius, Lithuania

Deadline for manuscript submissions

closed (20 December 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/128173

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

About the Journal

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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)