Special Issue

Raman Spectroscopy of Micro-structures

Message from the Guest Editor

Raman spectroscopy (RS) is a well-known technique, which is broadly used in wide domains of physical chemistry, material physics, biology, engineering, and even planetary exploration. RS has become one of the leading tools to characterize the chemical composition and molecular structure of a material. A large amount of information about the nature of defects, the crystalline or amorphous character of a material, and the disorder can be provided by this technique. In this issue, original papers and review articles are particularly expected to show the interest of RS in topics such as: - The control of the preparation of materials such as thin films, nano- and microstructured materials, and the improvement of their quality; - The probe of incorporation point defects and the study of the defect structure; - The link with phase changes (coexisting phases, phase transitions); - The enhancement of properties (mechanical, electronic , optical, etc.) via a better knowledge of the structure. This issue could provide an overview of the various applications of this important tool in different domains of physics and chemistry.

Guest Editor

Prof. Marc D. Fontana

Laboratoire Matériaux Optiques, Photonique et Systèmes, Université de Lorraine and CentraleSupélec, 2 rue E. Belin, 57070 Metz, France

Deadline for manuscript submissions

closed (31 January 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/41158

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)