

## Special Issue

# The Solid State Characterization of Pharmaceuticals and the Development of Dosage Forms

### Message from the Guest Editors

The characterization of solid-state properties at an early stage, using appropriate analytical methodologies, is a prerequisite in the development of solid dosage forms both from scientific and regulatory points of view. In the pre-formulation studies of new solid dosage forms, it is essential to have readily available knowledge of the physicochemical properties of the active component and excipients. Also, new technologies are emerging for the improvement of dissolution/solubility characteristics, mainly for BCS class II drugs, and the resulting product needs to be well characterized. The major purpose of this Special Issue is to provide new research involving relevant topics related to the physicochemical characterization of pharmaceutical solids and the development of new dosage forms. This Special Issue will consider the following:

- Solid-state characterization;
- Pharmaceutical materials selection and characterization;
- Thermal analysis applied in drug development;
- Pharmaceutical formulation development;
- Pharmaceutical dosage forms;
- New materials for coating of solid forms;
- Novel drug delivery technologies.

### Guest Editors

Prof. Dr. Fábio Seigi Murakami

Universidade Federal do Paraná, Department of Pharmacy, Curitiba, Brazil

Prof. Dr. Paulo Renato De Oliveira

Department of Pharmacy, Universidade Estadual do Centro Oeste (Unicentro), Campus CEDETEG, Alameda Élio Antonio Dalla Vechhia, 838 – Vila Carli, Guarapuava 85040-167, PR, Brazil

### Deadline for manuscript submissions

closed (31 December 2020)



## Materials

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/22835](https://mdpi.com/si/22835)

*Materials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

[mdpi.com/journal/  
materials](https://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](https://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)