



an Open Access Journal by MDPI

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

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)

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.





an Open Access Journal by MDPI

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

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.

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

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)