Special Issue

Organic Materials and Hybrid Metal-Organic Materials

Message from the Guest Editor

The Issue will focus on the solid-state chemistry and functional applications of organic and hybrid metal organic materials. In this Special Issue, solid-state reactivity in organic materials such as hydrogen-bonded/halogen-bonded solids and covalent organic frameworks (COFs)) is of interest. Solid-state reactions in hybrid metal organic materials should concern solids that by means of coordination bonds form discrete or polymeric structures, as in metal organic frameworks (MOFs)/coordination polymers (CPs) but also metal organic materials obtained via second sphere interactions between metal centers and organic molecules. The aim of this Special Issue is to gather articles correlating solid-state reactivity and structure–function properties of new functional materials generated by external stimuli. Keywords

- solid-state reactivity
- single-crystal-to-single-crystal
- dynamic amorphous phases
- MOFs/CPs
- mechanochemistry
- crystal-to-polycrystal reactions
- X-ray crystallography

Guest Editor

Prof. Javier Marti-Rujas
Politecnico di Milano, Italy.

Deadline for manuscript submissions

closed (31 December 2021)

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

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Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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