



Magnetic Methods in Metal–Organic Materials and Environmental Science

Guest Editors:

Dr. Tadeusz Szumiata

Department of Physics, Faculty of
Mechanical Engineering,
University of Technology and
Humanities in Radom,
Stasieckiego 54, 26-600 Radom,
Poland

Prof. Dr. Roman Szewczyk

Faculty of Mechatronics, Warsaw
University of Technology,
Warsaw, Poland

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editors

In recent years, various magnetic methods typical for characterization of standard magnetics have been recognized as an efficient research tool in the case of many other groups of materials. These include, among others, intentionally synthesized organometallic compounds (usually based on iron) and industrial side-products (such as fly ashes, air-borne particulate matter, and street dusts), recognized not only as pollutants but also as potential recycling materials. Several questions are crucial and still not entirely understood. In dealing with these problems, the magnetic methods—both standard and very specific—seem to be very helpful, such as thermal and frequency scanning of magnetic susceptibility, magneto-optics, magnetic hysteresis decomposition, Day–Dunlop diagrams, and first-order reversal curve (FORC) analysis. Moreover, a very good supplement to magnetic methods is iron-based Mössbauer spectrometry.





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

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
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)