## Special Issue

# Electron Microscopy for Understanding of the Relationship between the Structure, the Properties and the Functions of Metals, Semiconductors, Ceramics, Carbon Materials, Composites and Coatings

### Message from the Guest Editors

Electron microscopy is one of the main research techniques used to analyze the structure and properties of materials. Electron microscopy can be applied to study almost all materials in a solid state. For some of them, such as nanomaterials, nanocoatings, and nanocomposites, this is the only imaging technique available. Whenever the material properties depend on local changes in the crystal and electronic structure, electron microscopy gives the opportunity to improve these properties and to explain material degradation. Therefore, this Special Issue will focus on research results for various materials: metals and alloys, ceramics, semiconductors, carbon and composite materials, coatings and nanomaterials, whose common feature will be the possession of a research problem that has been solved by the using of electron microscopy. Not research equipment with the highest parameters, but a detailed, convincing and inspiring description of the research and interpretation of its results will be the most important. We kindly invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

### Guest Editors

Prof. Dr. Miroslawa Pawlyta

Materials Research Laboratory, Silesian University of Technology, Konarskiego 18A, 44-100 Gliwice, Poland

Prof. Dr. Klaudiusz Gołombek

Materials Research Laboratory, Silesian University of Technology, Konarskiego 18A, 44-100 Gliwice, Poland

### Deadline for manuscript submissions

closed (10 February 2022)

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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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# 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

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