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Physical and Mechanical Properties of Advanced Micro-/Nano-Composite Materials

Guest Editors:

Dr. Jiaxiang Li

Photophysics and
OptoElectronics, Faculty of
Science and Engineering,
University of Groningen,
Groningen, The Netherlands

Dr. Dong An

Shanxi Key Laboratory of Nano-
Functional Composite Materials,
School of Materials Science and
Engineering, North University of
China, Taiyuan, China

Prof. Dr. Rong Zhang

School of Materials and Chemical
Engineering, Hubei University of
Technology, Wuhan 430068,
China

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Message from the Guest Editors

We would like to invite you to revisit and share your recent advances in functional and structural composite materials. This Special Issue welcomes contributions on the processing–structure–property relationships in composite materials for electronic, structural, and energy applications, highlighting the design power of matrix/filler chemistry, dimensionality, and surface treatments, the capability of novel characterization methods and modelling efforts. Topics include and are not limited to the following:

- Micro-/nano-material synthesis and processing techniques for improved compounding and structure–property relationships;
- Physical/mechanical characterization and modeling methods for functional and structural composite materials;
- Filler–matrix interactions and effects on mechanical, thermomechanical, dielectric, electrochemical, and optical properties;
- Interface electrical/thermal transport, absorption, friction, and energy generation/dissipation;
- Demonstration and performance prediction in electronics and industrial applications.



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Special Issue



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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.

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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