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Oxide/Hydroxide-Based Materials and Their Application

Guest Editor:

Dr. Marilena Carbone

Department of Chemical
Sciences and Technologies,
University of Rome Tor Vergata,
Via della Ricerca Scientifica 1,
00133 Rome, Italy

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Message from the Guest Editor

Metal oxides and hydroxides display extremely versatile properties of conductivity, light absorption, fluorescence, chemiluminescence and permeability through microorganisms. which allow a large variety of applications. The specific properties largely depend on the type of oxide or hydroxide, their peculiar structures and sizes. They can be arranged in nanoscopic and mesoscopic structures, nanoparticles, nanosheets, nanofoils, nanobelts, flower-like and grained-flower structures, foams, and needles. In addition, they can be used as pure, mixed or hybrid with organic materials, to create metal-organic frames or layered compounds. This Special Issue is devoted to any aspect of metal oxides and hydroxides that highlights their properties, improves their existing applications or points towards new ones. New types of syntheses or simpler, more environmentally friendly ones are the topic for this issue, in connection with their properties' variations. Papers on new tools and devices based on metal oxides and hydroxides as well as new configurations of existing ones are welcome.



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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

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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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