Special Issue

Recent Developments in Pro-ecological Materials and Processes

Message from the Guest Editor

Along with the development of the global economy, factors related to environmental protection have become very important. New branches of science have been developed, including life cycle assessment (LCA). Life cycle estimation is a technique that studies environmental aspects and impacts over the entire life cycle of a product, the threat of which results from the selection of control factors for the management of production processes of their operation or intentional complex technical systems. At present, one should strive for intensive economic development based on bioeconomy principles. This approach requires the development of new material and product designs that, if properly prepared, will allow their reuse, repair, and recycling. This Special Issue aims to collect research work presenting original research results, developed using innovative methods of integrated sustainability assessment, inspired by environmental assessment throughout the life cycle of machinery, equipment, and installations, using renewable energy sources.

Guest Editor

Prof. Dr. Marek Opielak

Faculty of Transportation and Information Technology, WSEI University, 4 Projektowa St., 20-209 Lublin, Poland

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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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