Special Issue

Innovative Technologies and Materials for High-Performance Components

Message from the Guest Editor

Nowadays, the need to obtain components with excellent properties represents a critical issue in many industrial fields. The present Special Issue aims to highlight the state-of-the-art research related to innovative technologies, manufacturing processes, and materials for high-performance components. Contributions may be related to conventional or unconventional processes, highlighting novel aspects of processing and manufacturing methods, coating technology, and materials that can be used to obtain high-performance components. In addition, computation methods (such as mathematical modeling, simulations, machine learning, optimization, and control) for estimation of the resulting material properties and contributions related to improving sustainability and reducing environmental impact are of interest.

Guest Editor

Dr. Silvio Genna

Dipartimento di Ingegneria dell'Impresa "Mario Lucertini", Università degli Studi di Roma "Tor Vergata", via del Politecnico, 1, 00133 Roma, Italy

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Materials
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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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