Special Issue

Materials, Design and Process Development for Additive Manufacturing

Message from the Guest Editor

This issue will cover a wide scope of additive manufacturing processes, comprising investigation, characterization of materials and their properties, development and application of new materials, structures designed for additive manufacturing. Topics of particular interest include but are not limited to: -New biomaterials, including alloys with reduced Young modulus, and porous and biodegradable alloys;
-New material formulations and composite materials adapted specially for additive manufacturing;
-High-entropy alloys, ceramics, metal- and ceramic-matrix composites;
-Metamaterials and alloys with shape memory effect;
-Bulk metallic glasses and nanocrystalline alloys;
-Multimaterial additive manufacturing;
-Materials with graded properties such as microstructure, chemical composition, density, etc.;
-Wire, filament, and slurry based additive manufacturing;
-In situ synthesis and adjusting alloying with blending powders;
-Computer methods for designing alloys, structures, and simulation of processes. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

Dr. Vadim Sufiiarov
Peter the Great St. Petersburg Polytechnic University, 195251, Polytechnicheskaya, 29, St. Petersburg, Russia

Deadline for manuscript submissions

closed (28 February 2022)

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

mdpi.com/journal/materials

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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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