



materials



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Materials, Design and Process Development for Additive Manufacturing

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Deadline for manuscript
submissions:

closed (28 February 2022)

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.



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Special Issue



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Editor-in-Chief

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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.

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