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Innovative Materials and Nanocomposites for Additive Manufacturing

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Deadline for manuscript submissions:

closed (10 May 2022)

Message from the Guest Editors

The current Special Issue is focused on the latest developments in innovative metallic materials and nanocomposites with metallic matrices for additive manufacturing.

Works on the various aspects involved in the manufacturing of these novel materials are welcome. These include aspects related to both feedstock material production and 3D printing/processability of these materials into bulk parts.

Microstructural studies based on characterization methods, including various microscopy techniques (light, electron, etc.) and analysis (microanalysis, X-ray diffraction, etc.), are welcome. The experimental investigation of mechanical properties, wear behavior, and/or corrosion resistance is of utmost interest, given that the influence of the microstructure or processing history or application is described. Works on the optimization of heat treatments and post-processing for innovative materials or nanocomposites are also welcome. Studies on metamaterials or functionally graded materials will also be considered.





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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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