Special Issue

Developments in Additive Manufacturing and 3D Printing

Message from the Guest Editor

With steadily increasing application possibilities, the additive manufacturing (AM) and 3D printing of materials are very late additions to the family of metal and composite production methods. This Special Issue is dedicated to the mapping of the latest developments in the dynamically growing field of metal and composite additive manufacturing. Therefore, it is my pleasure to invite you to submit a manuscript on topics including, but not limited to:

- The research and development of novel alloys for additive manufacturing;
- The application of novel AM production or postprocessing methods;
- Improvements in the mechanical and/or functional properties of printed parts through the optimization of AM and/or the postprocessing treatment;
- The effect of heat treatment parameters on the microstructure and mechanical properties of AM materials;
- Increasing the wear and corrosion resistance of AM materials;
- The creep and fatigue resistance of AM materials;
- The in-depth microstructure characterization of AM materials.

Guest Editor

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Deadline for manuscript submissions

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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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