Special Issue

Design and Post Processing for Metal Additive Manufacturing

Message from the Guest Editors

This Special Issue is open to submissions concerning, but not limited to, design of elements with predicted microstructure and mechanical properties, AI/ML in AM, numerical algorithms for AM and μ-CT imagining for quality control. Despite the fact that AM manufacturing in a powder bed provides a possibility to fabricate objects of any shape in one production step, it also carries some disadvantages. The computer simulations and improved fabrication protocols that decrease these issues will be covered in this Special Issue. During the AM processes, not all particles are melted and, therefore, the removal of any unmelted particles needs to be performed with mechanical or chemical post-processing methods. This Special Issue is, therefore, dedicated to the various areas of research relevant to metal AM. The processing parameters and post-processing methods not limited to annealing and chemical modifications are of interest. Finally, the design of materials dedicated to metal AM and description of modifications to commercial machines are also welcome in the submissions.

Guest Editors

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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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