Special Issue

Additively Manufactured Metallic Materials

Message from the Guest Editors

Dear colleagues, Additive manufacturing has recently gained much popularity in both the research and application communities due to the many advantages it offers, as compared to conventional subtractive manufacturing techniques. These include the ability to fabricate net-shaped complex geometries, integration of multiple parts, on-demand fabrication, and efficient raw material usage, among other benefits. However, characteristics of the powder feedstock, variations in the large number of process parameters and scan strategy used, as well as the part geometry and postprocess treatment(s) can result in a broad range of microstructures, internal and surface defects, anisotropy, residual stresses, and, consequently, performance. This Special Issue covers these topics and focuses on the process–structure–performance relationships of additive manufactured metals.

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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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