Special Issue

Additive Manufacturing of Metals and Alloys: Recent Advances and Challenges

Message from the Guest Editors

Additive manufacturing (AM) is an important manufacturing strategy in Industry 4.0. Compared with traditional manufacturing and processing methods of metallic products, AM exhibits huge advantages in terms of more flexible geometrical shapes, higher efficiency, better performances, less waste, and carbon emission. A wide range of applicable materials provides potentials that AM can flexibly realize stringent requirements of different fields and industries, such as vehicles, aerocraft, spacecraft, marine engineering, nuclear power, medical treatment, and defence. This Special Issue aims to cover the latest progress in the field of additive manufacturing of metals and alloys, including the preparation process, microstructure characterization, properties evaluation, and advanced applications. Submissions of original research articles, reviews, and short communications related to the subject are welcome.

Guest Editors

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Deadline for manuscript submissions

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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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