Special Issue

Additive Manufacturing of Metallic Structures: Process and Applications

Message from the Guest Editors

The additive manufacturing of metals enables the development of complex structures through the sintering of powder, layer by layer, following a CAD-defined design. This technology has grown rapidly in recent years due to the significant benefits that it can bring to high-performance industrial sectors such as aerospace and mechanical engineering. This Special Issue aims to highlight the latest advances in the field of metal structures designed for additive manufacturing and their applications in various sectors.

Potential topics include, but are not limited to:

- New testing and evaluation methods for component performance from metal additive manufacturing:
- The design and manufacture of lightweight metallic structures in additive manufacturing;
- Hybrid structures designed for additive manufacturing;
- Lattice structures;
- Energy-absorbing structures;
- Finite element analysis of structures designed for additive manufacturing;
- Recent advances in the application of metal additive manufacturing.

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Message from the Editorial Board

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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