

Special Issue

Selective Laser Melting Applied in Alloys

Message from the Guest Editor

In recent years, the development of metal additive manufacturing has been particularly rapid, with selective metal melting technology being one of the most mainstream technologies in additive manufacturing due to its high manufacturing accuracy and excellent performance of the parts prepared. It has been initially applied on a large scale in industries such as aerospace, medical, mold, etc. The material systems involved include but are not limited to aluminum alloy, titanium alloy, high-temperature alloy, steel, and so on. As a kind of manufacturing technology, metal additive manufacturing and material research and development are closely related, promoting each other and developing in synergy. The recent development trend of selective metal melting technology is how the technology itself can adapt to a wider range of material systems, such as a higher accuracy, better performance, faster efficiency, and alloy development through material genetic methods; the other is how to design and develop special materials suitable for additive manufacturing technology. We invite authors to contribute research articles or reviews on the broad range of topics addressed above.

Guest Editor

Dr. Hai'ou Yang

State Key Laboratory of Solidification Processing, Northwestern Polytechnical University, Xi'an 710072, China

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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