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# **Advances in Selective Laser Melting**

Guest Editors:

#### Dr. Naoki Takata

Department of Materials Science and Engineering, Nagoya University, Nagoya, Japan

#### Prof. Dr. Makoto Kobashi

Department of Materials Science and Engineering, Nagoya University, Nagoya, Japan

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### **Message from the Guest Editors**

Additive manufacturing (AM) technologies have the great potential to provide an innovation in how metal products are designed and manufactured. The AM process has recently provided novel approaches to control topological structures and microstructure of metal products, which are incorporated in many different varieties of industrial materials applied for automobiles, aircrafts and medical implants. One of the most commonly-used AM processes is a selective laser melting (SLM) combined with powder bed system. The SLM process uses laser beams to melt and fuse powder metals and/or alloys, which may include selective laser sintering (SLS), direct metal laser sintering (DMLS) and selective heat sintering (SHS). This Special Issue covers a wide scope, comprising new (modified) processing routes, materials, product theoretical computations applications associated with the SLM process including the powder technologies. In addition, recent advances in electron beam melting (EBM) technologies are welcome as well.











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### **Editors-in-Chief**

#### Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

#### Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

## **Message from the Editorial Board**

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure - disciplines in metallurgical field the ranging from processing. mechanical behavior. phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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