Special Issue

Laser Powder Bed Fusion Additive Manufacturing: Experimental, Simulation, and Machine Learning

Message from the Guest Editors

Laser powder bed fusion (LPBF) additive manufacturing represents a cutting-edge frontier in the field of advanced manufacturing technologies. Distinguished for its precision and versatility, LPBF continues to revolutionize how we approach design and production across various industries. This Special Issue is dedicated to exploring the expansive and dynamic realm of LPBF, highlighting the synergy between experimental methods, simulation techniques, and the burgeoning field of machine learning. We invite researchers, academics, and industry professionals to contribute their latest research papers, communications, and reviews on the experimental, simulation, and machine learning aspects of LPBF. This issue aims to cover a wide spectrum of topics, including, but not limited to, alloy development, process parameter optimization, microstructure analysis, thermal modeling, and data-driven process control in LPBF.

Guest Editors

Dr. Congyuan Zeng

Dr. Wangwang Xu

Dr. Shafiqur Rahman

Deadline for manuscript submissions

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

mdpi.com/journal/materials

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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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