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Additive Manufacturing: State-of-the-Art 2024

Guest Editors:

Prof. Dr. C. Suryanarayana

Department of Mechanical and
Aerospace Engineering,
University of Central Florida,
Orlando, FL, USA

**Prof. Dr. Prashanth Konda
Gokuldoss**

Department of Mechanical and
Industrial Engineering, Tallinn
University of Technology,
Ehitajate Tee 5, 19086 Tallinn,
Estonia

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Message from the Guest Editors

Dear Colleagues,

Additive manufacturing (AM), where materials are fabricated using the layer-by-layer approach to fabricate near-net-shaped components in 3D/4D. AM comprises several processes such as laser-based processes like laser fusion deposition modeling (FDM), direct light polymerization (DLP), powder bed fusion (LPBF)/selective laser melting (SLM), direct energy deposition (DED), laser engineering near-net-shaped processing (LENS), selective laser sintering (SLS), direct metal laser deposition (DMLS), etc. With increasing demand for both materials (development of new materials aligned with the processing conditions) and processes (improvement in processing conditions), advancements in the field are taking place at a very rapid pace.

Scientific contributions are invited from scientists, researchers, engineers, and industry professionals to disseminate recent innovations and developments in the areas of additive manufacturing of materials including alloy design for additive manufacturing, in situ process monitoring, process optimization, machine learning, artificial intelligence, and Big Data analysis of additive manufacturing processes.



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Special Issue



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Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, PI, Italy

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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Crystals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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