

Special Issue

Rising Stars in Additive Manufacturing

Message from the Guest Editors

Additive manufacturing (AM) is a technology that enables the creation of functional parts with design freedom, making it a popular choice in various industrial sectors. Recent advancements in AM techniques have opened up many opportunities in terms of reducing the materials used and fabrication costs. This Special Issue continues the series “Progress in Additive Manufacturing: Design, Fabrication and Post Processing” and is dedicated to various areas of research relevant to AM, including both polymer and metal. Processing parameters and post-processing methods (not limited to annealing and chemical modifications) are of particular interest.

This Special Issue aims to collect high-quality papers from excellent young researchers and welcomes submissions on the additive manufacturing of elements with predicted microstructure and mechanical properties, the use of artificial intelligence/machine learning (AI/ML), numerical algorithms, and μ -CT imaging for quality control. We also welcome submissions improving the design of materials through various AM techniques and modifications to commercial machines.

Guest Editors

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Prof. Dr. Anton Du Plessis
Dr. David Dean

Deadline for manuscript submissions

closed (20 June 2025)



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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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