

Special Issue

Intelligent Precision in Additive Manufacturing and Post-Processing

Message from the Guest Editors

Additive manufacturing (AM) has received tremendous attention, due to its ability to manufacture customised designs and the free-form fabrication of complex shapes. Although industries are now using AM processes, the precision of AM parts is still a major hurdle to full adoption and wider market acceptance. Lack of precision in additively manufactured parts has led to additional post-processing, which requires employing conventional subtractive manufacturing or non-conventional techniques to achieve a good surface finish and geometric accuracy. However, minimising post-processing operations on the AM parts is dependent on the precision of the AM process. Several other factors that affect precision include poor performance of the equipment, inappropriate selection of process parameters, lack of monitoring and controlling, and lack of understanding of the nature of AM processes. This Special Issue aims to provide a platform for the AM research community to contribute state-of-the-art developments in the field of precision for AM and its influence on post-processing.

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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.

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