Special Issue

Industrial Additive Manufacturing Process Planning: Process Evaluation, Metrology, and Post-Processing Techniques

Message from the Guest Editor

Additive manufacturing processes have been studied from different fields, including powder metallurgy, surface engineering, thermal engineering, and other areas of scientific research. The aim of this Special Issue is to present the latest research and development in the field of industrial additive manufacturing process planning, and including all the taxonomy of processing technologies like powder bed fusion, direct energy deposition, binder jetting, ultrasonic additive manufacturing, and friction stir processing, among others. We are most interested in high-quality papers which explore the evaluation of different process parameters and the use of post-processing technologies like surface treatments, hot isostatic pressing and advanced heat treatments for the improvement of mechanical performance and corrosion resistance. Furthermore, we encourage the submission of papers dedicated to the exploration of different metrology techniques like x-ray computed tomography and confocal microscopy in the dimensional and surface quality assessment of additively manufactured parts.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2020)

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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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