Special Issue

Contemporary Progresses in Additive Manufacturing and Welding of Advanced Materials

Message from the Guest Editors

Fabrication technology has emerged as an important tool for modern manufacturing processes that involve cutting-edge materials. It is difficult to deposit components for critical aerospace applications using additive manufacturing's advanced materials. Several methods have been developed to successfully join modern materials to produce high-quality parts. When it comes to avoiding welding issues with different materials, additive manufacturing is a huge help. There are specific and high costs associated with welding materials like titanium, ceramics, and metal-matrix composites. However, additive manufacturing processes can make the components of these materials at a lower cost. Welding and additive manufacturing are two examples of hybrid manufacturing processes that can be used to construct advanced material parts if the production rate necessitates it. Therefore, studies on the properties of components made with modern manufacturing techniques are essential. We welcome reviews and original research articles from scientists, researchers, industry profession and various engineers working in the areas of additive manufacturing/3D printing and welding processes.

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Deadline for manuscript submissions

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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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