Special Issue

Advances in 3D Printing/Additive Manufacturing Technology of Materials

Message from the Guest Editor

Three-dimensional printing/additive manufacturing, a transformative approach to industrial production, enables the creation of complex physical objects from digital design files. Recent 3D printing/additive manufacturing technology highlights the evolution in material diversity, featuring an array of metals, polymers, and composite materials tailored for enhanced functional attributes. It also has focused on improvements in printing precision and resolution, and has been critical for sectors that demand extreme accuracy, such as biomedical applications and aerospace engineering. The technology's contributions include reducing the time and cost of production; enabling rapid and cost-effective customization that was previously unfeasible; and illuminating the path towards sustainable manufacturing through material efficiency and minimized waste. This Special Issue aims to discuss these advances in order to open up new possibilities in a variety of industries and address ongoing challenges and future perspectives.

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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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