Special Issue

Advanced Smart Materials for 3D/4D Printing: Mechanisms, Performance and Applications

Message from the Guest Editors

4D printing technology, which is based on 3D printing, adds an additional temporal dimension to the process and can be realized through the integration of 3D printing techniques with smart materials. In contrast to the static structures fabricated via traditional 3D printing, 4D printed structures exhibit an ability to adaptively modify their performance or functionality over time in response to external stimuli such as heat, light, electricity, and magnetism. Smart materials have attracted much attention in fields such as aerospace, biomedicine, etc., due to their potential for active deformation and adaptive deployment. We encourage the submission of original manuscripts covering, but not limited to, the following topics:

- Functional smart materials;
- The fabrication of smart materials;
- Research on the mechanisms and performance of smart materials;
- 3D/4D printing;
- Research on the application of smart materials.

We look forward to receiving your contributions.

Guest Editors

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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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