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Additive Manufacturing: Technology, Applications and Research Need

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Message from the Guest Editors

Additive manufacturing (AM) technologies enable a great amount of flexibility in design and functionality of products through their capabilities of placing any material at any geometric position in a product. Ultimately, they can produce unprecedented products which could drastically outperform today's ordinary products. Advanced AM technologies will be the foundation for new capabilities and tools that meet urgent societal needs in future energy, automotive, aerospace, national security, and human welfare engineering systems. Therefore, this Special Issue of *Materials* aims to collect novel articles covering additive manufacturing technologies, applications, and corresponding design methods. Topics of interest include (but are not strictly limited to) the following:

- New printing processes and modeling;
- Design methods for multifunctional, lightweight, and heterogeneous structures;
- New materials for AM;
- Process–structure–property relationships for AM materials;
- Certification processes for AM-fabricated parts

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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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