

Special Issue

Advances in Additive Manufacturing: Materials, Processes, and Applications

Message from the Guest Editors

Additive manufacturing (AM), also known as 3D printing, has undergone rapid advancements in recent years, revolutionizing industries such as aerospace, healthcare, energy, and automotives.

In this Special Issue, we invite state-of-the-art reviews and original research contributions that explore recent advances in AM materials, processes, and applications. Topics of interest include, but are not limited to, the following:

- Innovative materials for additive manufacturing (metals, polymers, ceramics, composites, and functionally graded materials);

- New and hybrid AM processes for enhanced performance, efficiency, and scalability;

- New applications of AM in the aerospace, biomedical, energy, electronics, and emerging industries;

- Advanced characterization techniques for AM processes and AM-fabricated materials and structures;

- Intelligent process optimization and adaptive control strategies;

- Sustainability and recyclability in AM materials and processes;

- Advanced simulations for mechanistic study in AM.

We look forward to your valuable contributions.

Guest Editors

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About the Journal

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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