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Applications of Modeling and Machine Learning in Additive Manufacturing

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Deadline for manuscript submissions:

20 December 2024

Message from the Guest Editors

Dear Colleagues,

We are inviting you to submit a manuscript regarding the applications of modeling and machine learning in additive manufacturing for a Special Issue of *Materials*. Topics of interest include but are not limited to:

- applications of modeling and machine learning for the novel design of additively manufactured products;
- additive manufacturing processes;
- alloy design;
- tailoring microstructure;
- customized mechanical and chemical properties;
- improved creep resistance, fatigue life, and serviceability;
- reducing defects and residual stresses and distortion.

The scope of this Special Issue also includes all 3D printing processes for alloys, ceramics, and polymers.

We look forward to working with you on the publication of this Special Issue. Please feel free to contact us if you have any questions.





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Editor-in-Chief

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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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