

## Special Issue

# Advanced Materials and Performance Characterization in Additive Manufacturing

### Message from the Guest Editors

Topics include, but are not limited to, the following:

- Advanced materials development for additive manufacturing;
- Novel metallic, ceramic, and composite feedstocks;
- Process–structure–property relationships in AM materials;
- Microstructural evolution and phase characterization in AM builds;
- Mechanical performance, including tensile, fatigue, creep, and fracture behavior;
- Residual stress, distortion, and defect characterization;
- Corrosion, wear, oxidation, and environmental durability of AM materials;
- In situ monitoring and advanced characterization techniques;
- Post-processing and its effect on material performance;
- Qualification, certification, and reliability of AM components;
- Modeling, simulation, and data-driven approaches for AM materials;
- Multi-scale characterization and performance prediction of additively manufactured materials.

### Guest Editors

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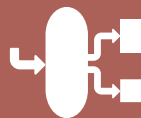
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### Deadline for manuscript submissions

15 November 2026



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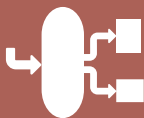


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