

# JOM Call for papers

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**Manuscript Deadline:** *January 1, 2025*

## ***Cracking in Additively Manufactured Metals and Alloys***

Due to the unique temperature and stress fields experienced during additive manufacturing (AM), cracking can be observed in alloys that are typically considered “weldable” by conventional processes. Additional cracking mechanisms may also be experienced during post-build heat treatment and service. Understanding the mechanisms of cracking and how to eliminate them is of the utmost importance to advance AM for high-performance structure applications. This special topic welcomes submissions that focus on: (1) A detailed characterization of cracking mechanisms in AM metals during printing, post processing, and service and (2) A fundamental understanding of cracking mechanisms to control or eliminate cracking in AM.

Original research papers should be 3,000-9,000 words with up to 12 figures maximum; review papers should be 6,000-11,000 words with up to 20 figures maximum.

Detailed author instructions are available at:  
<http://www.tms.org/AuthorTools/>

**Keywords for this topic:** **Additive Manufacturing; Advanced Materials**

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