

# JOM Call for papers

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## ***Mechanical Behavior of Structural Materials for Nuclear Applications***

The mechanical properties of irradiated materials change significantly upon exposure to neutrons in the reactor. The ability of a material to resist mechanical property changes from irradiation-induced point defects is one of the critical aspects of improved radiation tolerance. Thus, identifying or designing materials with a tailored response that can sustain high levels of radiation damage while maintaining their mechanical properties is a grand challenge in materials research. The objective of this special topic is to provide a platform for researchers to share their research related to the evaluation of mechanical behavior of structural materials for nuclear applications.

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:** Environmental Effects; High-Temperature Materials; Mechanical Properties; Modeling and Simulation; Nuclear Materials

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