

# JOM Call for papers

An official publication of The Minerals, Metals & Materials Society

Publication Date: *November 2019*

Manuscript Deadline: *June 1, 2019*

## **The Advanced Characterization, Testing, and Simulation Committee and Nuclear Materials Committee are seeking papers on the topic of *Advanced Characterization and Testing of Irradiated Materials***

Irradiation by high-energy particles (e.g., neutrons and ions) can cause significant damage to materials in such forms as voids and dislocation loops, resulting in important dimensional and mechanical property changes. This special topic focuses on the characterization and testing of radiation-affected materials through scanning and transmission electron microscopy, atom probe tomography, micro-mechanical testing, x-ray diffraction, etc. Modeling and simulation of fundamental radiation damage phenomena aiding deeper understanding of these processes are also included in the scope.

Original research papers should be 3,000-6,000 words with up to 8 figures maximum; review papers should be 6,000-10,000 words with up to 15 figures maximum.

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

### **Keywords for this topic:**

**Characterization, energy, mechanical properties, nuclear materials, radiation effects**

**Guest Editors for the *JOM* topic are Dhriti Bhattacharyya, Fan Zhang, and Peter Hosemann:**

**[dhriti1@gmail.com](mailto:dhriti1@gmail.com); [fan.zhang@nist.gov](mailto:fan.zhang@nist.gov); [peterh@berkeley.edu](mailto:peterh@berkeley.edu)**

If you are interested in submitting a paper, upload your manuscript at  
<https://www.editorialmanager.com/jomj/>

Please note that all submissions will be subject to peer review. Submission does not guarantee acceptance.

**For more information on *JOM*, please visit [jom.tms.org](http://jom.tms.org)**