

# JOM Call for papers

An official publication of The Minerals, Metals & Materials Society



**Publication Date:** *October 2021*

**Manuscript Deadline:** *May 1, 2021*

## ***Materials for Small Nuclear Reactors and Micro Reactors, including Space Reactors***

Small nuclear reactors, including micro-reactors, small modular reactors, space reactors, and off-grid reactors rely on different materials and manufacturing processes than those in large-scale power plants: molten salts as coolants and fuels, heat-pipes for heat removal, metal hydrides as high-temperature moderators, fuels for higher burnup and accident tolerance etc. They also require novel structural materials and understanding of material interactions. This special topic focuses on materials research and experimental and modeling/simulation for small nuclear reactors.

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:** Additive Manufacturing; Characterization; Modeling and Simulation; Molten Metal and Solidification; Nuclear Materials

**Guest Editor(s):** Sven C. Vogel, Raluca O. Scarlat, Aditya P. Shivprasad and Marisa Monreal:  
[sven@lanl.gov](mailto:sven@lanl.gov); [scarlat@berkeley.edu](mailto:scarlat@berkeley.edu); [aps@lanl.gov](mailto:aps@lanl.gov); [mmonreal@lanl.gov](mailto:mmonreal@lanl.gov)

**Committee Sponsor(s):** Nuclear Materials

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)**