

# JOM Call for papers

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**Publication Date:** *November 2019*

**Manuscript Deadline:** *June 1, 2019*

**The Nanomaterials Committee is seeking papers on the topic of**  
***Crystal Orientation Dependence of Mechanical and Thermal Properties in Functional Nanomaterials***

The response/performance of nanomaterials in various applications is determined significantly by the variation of crystallographic orientations when materials are subjected to mechanical and thermal loading environments. The emphasis of this special topic will be on the latest advances in the investigation and understanding of various crystal orientation phenomena toward functional nanomaterials design, and characterization in single-crystal, bicrystal and polycrystalline metallic, ceramic, oxide, composite materials, etc. using theoretical, computational, and experimental methods.

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:**

**Advanced materials; alloy phases; ceramics; composites; crystal orientation; computational materials science and engineering; mechanical properties; single-crystal, bicrystal, and polycrystalline materials; thermal properties**

**Guest Editors for the JOM topic are Ning Zhang and Chang-Yong Nam:**

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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.

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