

JOM Call for papers

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Nanostructured Materials in Extreme Environments (By Invitation Only)

This invited topic will focus on understanding the unique aspects of the response of nanostructured metallic, ceramic and composite materials in extreme environments. Many critically important applications involve extreme environments where high temperature, high mechanical stress, high strain-rate deformation, corrosive atmosphere and intense irradiation are present. Such extreme environments pose significant challenges to the materials being used. Nanostructured materials, including ultrafine-grained and nanocrystalline materials, nanolayered materials, nanoparticles or nanoprecipitates strengthened materials, etc., have exhibited many excellent properties like high mechanical strength and superior irradiation resistance. Their improved properties make them promising candidates for applications in extreme environments.

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: Advanced Materials; Environmental Effects; High-Temperature Materials; Nanotechnology; Nuclear Materials; Nanostructured Materials

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If you are interested in submitting a paper, upload your manuscript at
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Please note that all submissions will be subject to peer review. Submission does not guarantee acceptance.

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