

JOM Call for papers

An official publication of The Minerals, Metals & Materials Society

Publication Date: *November 2023*

Manuscript Deadline: *May 1, 2023*

Phase Stability in Extreme Environments

Structural materials for extreme environments can suffer from various instabilities that will likely impact long-term performance. Understanding phase stability is paramount to enhancing the lifetime of critical components. This special topic includes experimental and/or theoretical efforts on (1) Phase separation or dissolution in corrosive environments; (2) radiation effects on phase stability; (3) deformation-induced phase transformations; (4) thermal aging/cycling impacts; and (5) phase stability on environmentally assisted cracking and/or hydrogen embrittlement.

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: Alloy Phases; Environmental Effects; Phase Transformations; Oxidation; Corrosion; Irradiation; Stress

Guest Editor(s): XiaoXiang Yu, Andrew Hoffman, Bin Ouyang, Wenjun (Rebecca) Cai and Wei Xiong;

Shawn.Yu@novelis.com; Andrew.Hoffman@ge.com; bouyang@berkeley.edu; caiw@vt.edu; weixiong@pitt.edu

Committee Sponsor(s): Corrosion and Environmental Effects; Alloy Phases

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