

JOM TECHNICAL TOPICS

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OCTOBER 2022

Cold Dwell Fatigue of Titanium Alloys

Scope: This special topic summarizes the state of the art in understanding and modeling dwell fatigue failure of titanium alloys.

Editors: Adam Pilchak, Materials Resources LLC, and Michael Gram, Pratt & Whitney

Sponsor: Titanium Committee

Properties and Evolution of Defects and Interfaces: Part I

Scope: This special topic focuses on defects and interfaces for optimal material.

Editors: Tianyi Chen, Oregon State University; Zhe Fan, Lamar University; and Shijun Zhao, City University of Hong Kong

Sponsor: Nanomechanical Materials Behavior Committee

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NOVEMBER 2022

Furnace Tapping

Scope: Tapping a pyrometallurgical smelter is not an easy task and a well-managed tapping process is essential for safe furnace operations. This topic presents a multi-disciplinary picture of the tapping of furnaces.

Editors: Joalet Steenkamp, University of the Witwatersrand, Quinn Reynolds, Mintek

Sponsor: Pyrometallurgy Committee

Interactions Between Biomaterials and Biological Tissues and Cells

Scope: This topic covers physical, mechanical, biological, and biochemical interactions between engineered biomaterials and biological tissues and cells.

Editors: Jing Du, Pennsylvania State University; Dinesh Katti, North Dakota State University; Vinoy Thomas, University of Alabama at Birmingham

Sponsor: Biomaterials Committee

Properties and Evolution of Defects and Interfaces: Part II

Scope: This special topic focuses on defects and interfaces for optimal material.

Editors: Tianyi Chen, Oregon State University; Zhe Fan, Lamar University; and Shijun Zhao, City University of Hong Kong

Sponsor: Nanomechanical Materials Behavior Committee

Recent Advances in Multicomponent Alloys and Ceramics

Scope: This special topic explores recent experimental and computational advancements in multicomponent alloys and ceramics.

Editors: Yong-Jie Hu, Drexel University; Bin Ouyang, Florida State University; Cormac Toher, University of Texas at Dallas; and Stefano Curtarolo, Duke University

Sponsor: Alloy Phases Committee

Refractory Materials for Corrosive or High Temperature Environments

Scope: This topic focuses on advanced designs of refractory metals, alloys and compounds, and innovative processes to improve material performance.

Editors: Chai Ren, University of Utah, and Ravi Enneti, Global Tungsten

Sponsor: Refractory Metals & Materials Committee