

JOM TECHNICAL TOPICS

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Advances in Grain Refinement during Solidification

Scope: Grain refinement is a proven technique for improving the strength and plasticity of alloys. This special topic focuses on recent developments of methods and techniques for achieving grain refinement prior to and during solidification. These include mechanical methods such as ultrasonic treatment, electromagnetic processing, and high shear melt processing as well as other novel techniques for improving the effect of grain refiners.

Editors: Catherine Tonry, University of Greenwich, and Kara LuitJohan, Los Alamos National Laboratory

Sponsor: Solidification Committee

Solid-state Processing of Light Alloys

Scope: Solid-state processing of light alloys encompasses a wide range of technologies aimed at forming semi-finished and final products without involving melting, remelting, or casting. This special topic covers advances in fundamental, applied, and numerical research and technology development, which results in the significantly improved properties and performance of light-alloy products. The targeted processes include (but are not limited to): rolling, extrusion, stamping, forging, sintering, and thermo-mechanical processing of aluminum, magnesium, and titanium.

Editor: Dmitry Eskin, Brunel University London

Sponsor: Aluminum Committee

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