

Special Issue

Movements in Electromagnetically Agitated Liquid Metal

Message from the Guest Editors

Characteristics of metals, as well as their advantageous applications, increase in step with better alloys and manufacturing processes. Up to now, progress very much depended on a trial-and-error strategy dictated, in part, by limitations in mechanistic understanding and in-situ diagnostics, in particular, for metals in their liquid state. Continually, older methods are improved, and new ones become available to look inside liquid metals and, especially, influence and monitor inside movements. This applies, e.g., to solid or gaseous inclusions, solidification fronts and mixing in general. “Nothing is more practical than a good theory” applies also here: progress in diagnostics and progress with increasingly more detailed simulations are mutually promoting each other, leading to optimized processes for a plethora of applications, which are the main focus of this Special Issue.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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