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Strain Reversal in Metals and Alloys: Origins and Consequences

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Deadline for manuscript submissions:
closed (31 March 2021)

Message from the Guest Editors

This Special Issue is dedicated to covering all aspects of strain reversal, from its origins to its consequences in the deformation behavior and properties of metals and alloys. The potential topics include, but are not limited to:

- Impacts of strain reversal on mechanical properties and microstructure (from nano to micron size), dislocation arrangement, grain size, and texture.
- Factors affecting strain reversal, including the process parameters (e.g., the amount of forward and reverse strain) and the parameters relevant to the material, including the initial grain size, stacking fault, strain path, elasticity (in fatigue), and grain refinement.
- Processes involving strain reversal, from fatigue to severe plastic deformation methods including equal channel angular extrusion, simple shear extrusion, twist extrusion, high-pressure torsion, cyclic expansion extrusion, and accumulative roll bonding.

Both experimental and computational works (modelling and simulation) on metals and their alloys relevant to any aspects of strain reversal are welcome.

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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