



## Deformation and Recrystallization Behaviour of Alloys

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Deadline for manuscript  
submissions:

**closed (10 October 2023)**

### Message from the Guest Editors

Dear Colleagues,

Recrystallization is a pervasive transformation phenomenon that is very important in microstructure designs. RX could be defined as the formation of a new grain structure in deformed materials through the formation and migration of high angle grain boundaries driven by the stored energy of deformation. The process of RX of plastically deformed metals or alloys is of central importance in the processing of alloys.

Deformation processing and material factors such as stress accumulation, inhomogeneous strain distribution, microstructural variability, initial grain size, phase composition, stacking fault, lattice distortion energies, strain rate and deformation temperature are at play in determining recrystallization mechanisms and kinetics in alloys.

In this Special Issue, we aim to provide a wide spectrum of articles dealing with the RX phenomenon via experimental or modeling methods. In particular, submissions that combine experimental observations with numerical simulations are encouraged. Studies that aim to develop suitable experimental methods for describing and characterizing RX are welcome.

Dr. Ali Arab  
Dr. Baoqiao Guo  
Dr. Bin Jia  
Guest Editors





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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