

3.2. Microstructure and Texture Evolution during Recrystallization Figure 4 and Figure 5 show the microstructure of the recrystallization process, variation of recrystallization percentage with ...

5 ???· In recrystallization-controlled regime of TMCP, successive rolling passes facilitate microstructural refinement through dynamic and static restoration mechanisms. This work ...

Consequently, the energy available for recrystallization is limited, which is unfavorable for inducing recrystallization. As the temperature and deformation rate increase, ...

Due to the low stacking fault energy (SFE) for most nickel-based superalloys, the moving dislocations usually divide into extended dislocations which are more difficult to climb ...

An analytic model of the evolution of dislocation density in fccpolycrystals is described. The evolution equations approximately account for most known dislocation storage, ...

Abstract: Synergic evolution of microstructure-texture-stored energy in interstitial-free (IF) steels has been investigated to elaborate the effect of dissolved rare-earth (RE) elements on static ...

An induced recrystallization self-healing separator for stabilizing ultra-long cycles of aqueous sodium ion batteries Energy Storage Materials (IF 20.2) Pub Date : 2025-05-12, DOI: ...

This review is devoted to the understanding of the recrystallization mechanisms and its role in the control of the microstructure in emerging metallic materials. Recrystallization ...

The number and energy storage characteristics of nucleation positions in grains with different orientation affect the number and size of initial recrystallized grains with different ...

