Special Issue

Dislocation Mechanics of Crystal/Polycrystal Mechanical Strength Properties

Message from the Guest Editor

The purpose of the present Crystals Special Issue is to assemble dislocation mechanics descriptions commensurate, in part or overall, with corresponding crystal/polycrystal material strength properties. The Special Issue is intended to include the major subtopics of: (1) dislocation deformation dynamics and corresponding mechanistic descriptions over a range of loading rates and temperatures; and (2) dislocation mechanisms operative at internal structural levels from the macro- to nano-dimensional scales. Crystal stressstrain, strain hardening, creep, impact, shock, hardness, fatigue, and ductile and brittle fracturing properties are to be included, along with correspondingly measured and/or computationally simulated crystal/polycrystal strength property determinations. measured and/or computationally simulated crystal/polycrystal strength property determinations.

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Deadline for manuscript submissions

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About the Journal

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.

Editor-in-Chief

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