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Dislocation Mechanics of Crystal/Polycrystal Mechanical Strength Properties

Guest Editor:

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Deadline for manuscript submissions: closed (31 January 2023)

Message from the Guest Editor

Dear Colleagues,

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 sub-topics 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 nanodimensional scales. Crystal stress-strain, strain hardening, creep, impact, shock, hardness, fatigue, and ductile and brittle fracturing properties are to be included, along with correspondingly measured and/or computationally crystal/polycrystal simulated strength property determinations

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Specialsue



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Message from the Editor-in-Chief

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