INTERNATIONAL JOURNAL OF PLASTICITY

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**DESCRIPTION**

The purpose of the journal is to report original research on all aspects of **plastic deformation**, **damage** and **fracture** behaviour of **isotropic** as well as **anisotropic solids**, including the **thermodynamics** of plasticity and fracture, **continuum theory**, and macroscopic as well as microscopic phenomena.

The topics of interest include **plastic behaviour** of single crystals and polycrystalline metals, ceramics, rocks and soils, composites, nanocrystalline and microelectronics materials, **shape memory** alloys, ferroelectric ceramics, thin films and polymers, as well as **plasticity** aspects of failure and **fracture mechanics**. Significant experimental, numerical or theoretical contributions advancing the understanding of plastic behaviour of solids are of special interest, together with studies relating macroscopic to the microscopic behaviour of solids. Papers on modeling of finite nonlinear elastic deformation, with similarities to modeling of plastic deformation, are also welcome.

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**AUDIENCE**

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**IMPACT FACTOR**

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Examples: 'as demonstrated (Allan, 2000a, 2000b, 1999; Allan and Jones, 1999).... Or, as demonstrated (Jones, 1999; Allan, 2000)... Kramer et al. (2010) have recently shown ...'
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