

*International Journal of*

# **Microstructure and Materials Properties**

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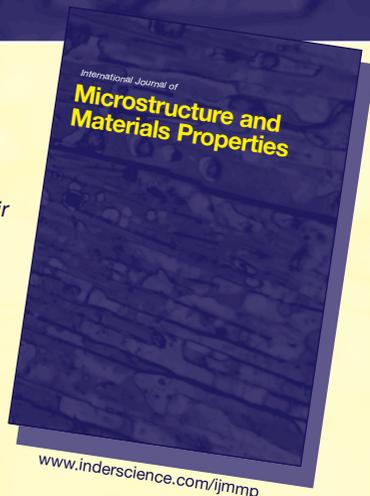
# Scope of the Journal

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*IJMMP publishes contributions on mechanical, electrical, magnetic and optical properties of metal, ceramic and polymeric materials in terms of the crystal structure and microstructure. Papers treat all aspects of materials, i.e., their selection, characterisation, transformation, modification, testing, and evaluation in the decision-making phase of product design/manufacture. Contributions in the fields of product, design and improvement of material properties in various production processes are welcome, along with scientific papers on new technologies, processes and materials, and on the modelling of processes.*

## Topics covered include:

- Materials'properties improvement, special properties, advanced techniques
- Mechanical/physical/nondestructive testing, characterisation
- Integrity after mechanical machining/heat treating/surface modification
- Creep/fatigue testing, failure analysis, fractures
- Surface characterisation, chemical analysis, microanalysis
- Precipitation/dispersion/strain hardening, dislocation interactions
- Deformation-induced distortion, structure formation in deformed metals/alloys
- Plastic/cyclic strain, quenching/distortion of steels, static/fatigue strength
- Analytical representation of creep curves
- Quantitative microscopy, particle size distribution, metal/alloy properties
- Chemical/heat treatment of metals/alloys, solute strengthening
- Polymers/metals/ceramics interface, mould/metal interface, casting/forging quality
- Laser/electron beam surface engineering/modification
- Solid/liquid interface morphologies vs solidification rate
- Microstructure formation modelling/evaluation, metals/alloys simulation



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