

JOM Call for papers

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EUROMAT23: Micro- and Nano-mechanics – Characterization and Modelling

Small-scale mechanical testing has become a mature and well-established field of research. Nevertheless, the methodologies themselves and the materials under study continuously evolve due to exciting new possibilities in instrumentation and high-performance computing. Specifically, combinations of advanced small-scale mechanical testing, high-resolution 3D-imaging, cutting-edge in-situ and operando techniques, data-driven mechanics, advanced multi-scale modelling, and artificial-intelligence algorithms allow new insights into the deformation behaviour of materials. This topic aims at bringing together these fast-growing research communities to support interdisciplinary approaches in micro- and nanomechanics with the objective of gaining insights into small-scale behaviour across all material classes.

Original research papers should be 3,000-9,000 words with up to 12 figures maximum; review papers should be 6,000-11,000 words with up to 20 figures maximum.

Detailed author instructions are available at:
<http://www.tms.org/AuthorTools/>

Keywords for this topic: Characterization; Computational Materials Science & Engineering; Experimental Methods; Mechanical Properties; Modeling and Simulation; Small Scale Mechanics

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