

# JOM Call for papers

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## ***Quantifying Rate Sensitive Deformation Measured from Continuous Indentation***

For over half a century, materials scientists have employed instrumented indentation as a way of characterizing rate sensitive deformation. They have experimented with a variety of indenters including cones, cylindrical punches, spheres, and pyramids, all of which provide different information; and they have used the methods to measure high-temperature creep and low-temperature creep, and viscoplasticity and viscoelasticity in polymers. Experimental methods and theoretical treatments have steadily improved to the point where it is possible to generate the equivalent of (uniaxial) flow stress-strain rate data from sub-micrometer volumes using indentation across a wide range of strain rate and temperature.

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:** Mechanical Properties; Modeling and Simulation; Nanoindentation; Rate Sensitive Deformation

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