

JOM Call for papers

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Alloy Microstructural Design for Wear Resistance

The onset and progression of plastic deformation is an important precursor towards the eventual ejection of media during severe wear of metallic functional surfaces. The focus of this special topic is study of microstructural features and mechanisms that control metal-metal and metal-media interactions during severe wear in advanced metallic alloys. Of particular interest is research focusing on tailoring composition and microstructure for reducing wear rates. Also welcome are fundamental studies exploring the influence that the surface exerts, along with simultaneously occurring intrinsic and extrinsic length-scale effects, on microstructure evolution trajectories that eventually produce surface damage during wear. Theoretical, computational, as well as empirical studies are encouraged.

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: **Additive Manufacturing; Advanced Materials; Characterization; Mechanical Properties; Modeling and Simulation**

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Committee Sponsor(s): **Mechanical Behavior of Materials; Advanced Characterization, Testing, and Simulation**

If you are interested in submitting a paper, upload your manuscript at
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Please note that all submissions will be subject to peer review. Submission does not guarantee acceptance.

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