

Special Issue on  
**High- and Superhigh-Temperature Tribological Behavior  
of Tribological Materials and Coatings**

# CALL FOR PAPERS

The scope of materials can be very wide ranging from various ceramics to superalloys as well as composites. The coatings can be processed by various techniques such as thermal plasma spray, high velocity oxygen fuel (HVOF) spray, slurry dipping/sintering, and plasma transferred arc (PTA) hardfacing. The focus of research should be on wear and friction mechanisms and behavior of materials and coatings under high- and superhigh-temperature conditions, especially degradation mechanisms of contacting surfaces with variation of temperature, loading type and level effect, and duration time influence. The research methodologies can be analytical, numerical, and experimental approaches.

This special issue invites the research papers that present original research in investigation of wear mechanisms and improvement of tribological properties of high-temperature wear/corrosion resistant materials and surface coatings.

Potential topics include but are not limited to the following:

- ▶ High-temperature wear resistant alloys
- ▶ High-temperature composite materials
- ▶ Wear resistant surface coatings
- ▶ Wear mechanisms of materials at high temperatures
- ▶ Degradation mechanisms of contacting surfaces at high temperatures
- ▶ Variation of tribological behavior of materials with temperature
- ▶ Contact load effects on friction and wear loss of materials at high temperatures
- ▶ Duration time effects on friction and wear loss of materials at high temperatures
- ▶ High-temperature lubrication technologies
- ▶ Multiscale tribological behavior or wear at nano-, micro-, and macroscale

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/at/hstt/>.

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**Manuscript Due**

Friday, 25 November 2016

**First Round of Reviews**

Friday, 17 February 2017

**Publication Date**

Friday, 14 April 2017