Call for papers

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Localized Materials Assessment of Fusion Relevant Materials

Nuclear fusion is carrying the promise of plentiful energy for humankind without producing long lived radioactive waste. One of the key challenges enabling nuclear fusion is the materials involved exposed to high temperatures, cryo- temperatures, magnetic fields, corrosion, and of course radiation. Small scale mechanical testing in harsh environments enables fast and detailed research to understand the materials degradation on a local and global scale. Original research articles utilizing small scale mechanical testing on fusion relevant materials and for fusion relevant applications to assess the materials property changes under these conditions are welcome.

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: Experimental Methods; High-Temperature Materials; Mechanical Properties; Nuclear Materials; Superconductivity

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Committee Sponsor(s): Nanomechanical Materials Behavior; Nuclear Materials

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