

# JOM Call for papers

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**Manuscript Deadline:** *September 1, 2023*

## ***Electrical Steels***

This special topic covers (a) Microstructure and texture control of electrical steels; (b) alloy design for high silicon electrical steels with improved formability; (c) casting and thermomechanical processing of high silicon electrical steels; (d) theoretical investigation of the evolution of texture and microstructure during electrical steel production; (e) alternative manufacturing methods to produce electrical steel sheets (f) effect of manufacturing processes on the energy losses of electrical steel laminates (g) novel characterization methods and tools to evaluate the microstructure, texture and magnetic properties of electrical steels; and other electrical steel related topics. Also covered are other properties of electrical steels, e.g., chemical, physical, mechanical, and electrical.

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:** **Advanced Processing; Energy Conversion and Storage; Iron and Steel; Magnetic Materials; Modeling and Simulation; Core Loss; Magnetic Flux Density; Crystallographic Texture; Grain Size; Recrystallization; Rolling**

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**Committee Sponsor(s):** **Steels**

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