

THE WORLD COMES HERE.
TMS 2023
152nd Annual Meeting & Exhibition

MARCH 19–23, 2023
SAN DIEGO CONVENTION CENTER &
HILTON SAN DIEGO BAYFRONT
SAN DIEGO, CALIFORNIA, USA
#TMSANNUALMEETING



SUBMIT AN ABSTRACT BY JULY 1 FOR THE FOLLOWING TMS2023 SYMPOSIUM:

CHARACTERIZATION

Characterization of Minerals, Metals and Materials

The symposium focuses on the advancements of characterization of the minerals, metals, and materials and the applications of characterization results on the processing of these materials. Subjects include, but not limited to, extraction & processing of various types of minerals, process-structure-property relationship of metal alloys, glasses, ceramics, polymers, composites, semiconductors, and carbon using as functional and structural materials. Advanced characterization methods, techniques, and new instruments are emphasized.

Areas of interest include, but are not limited to:

- Novel methods and techniques for characterizing materials across a spectrum of systems and processes
- Characterization of mechanical, thermal, electrical, optical, dielectric, magnetic, physical, and other properties of metals, polymers, ceramics including battery materials.
- Characterization of structural, morphological, and topographical natures of materials at micro- and nanoscales.
- Characterization of extraction and processing including process development and analysis
- Advances in instrument developments for microstructure analysis and performance evaluation of materials, such as computer tomography (CT), X-ray and neutron diffraction, electron microscopy (SEM, FIB, and TEM etc.), spectroscopy (EDS, WDS, EBSD) techniques, etc.
- 2D and 3D modelling for materials characterization

Symposium Dynamics: This symposium encourages, but does not require, accompanying proceedings papers for each oral presentation. Awards will be presented for individuals who provide the best combination of oral presentation and written proceedings paper. In addition, a poster session will be organized at this symposium with awards for best posters.

ORGANIZERS

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SYMPOSIUM SPONSORS

TMS Extraction & Processing Division
TMS Materials Characterization Committee

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QUESTIONS?
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