

THE WORLD COMES HERE.
TMS 2025
154th Annual Meeting & Exhibition



March 23–27, 2025
MGM Grand Las Vegas
Hotel & Casino
Las Vegas, Nevada, USA
#TMSAnnualMeeting



SUBMIT AN ABSTRACT FOR THE FOLLOWING TMS2025 SYMPOSIUM:

ADDITIVE MANUFACTURING

Nano and Micro Additive Manufacturing

Additive manufacturing has immense potential for design flexibility and simplified processing for precision, high resolution structures with robust mechanical properties. This symposium will focus on novel techniques, feedstock materials, characterization, and predictive simulations for additive manufacturing of structures with nano to microscale dimensions, as well as bulk structures with tailored internal nano/microscale features. A designated focus will be the description and validation of materials performance, in particular, the mechanical behaviour of manufactured structures. Topics of interest include additive techniques based on (but not limited to) multiphoton lithography, laser or e-beam sintering/melting, cold spray, aerosol deposition, inkjet, electrodeposition and hybrid methods, and material systems including polymers, metals, ceramics, and nanocomposites. The functional properties, mechanical behaviour and lifetime of nano and micro additively manufactured materials and structures are also of high interest in this symposium.

ORGANIZERS

Alain Reiser, KTH Royal Institute of Technology; **Wendy Gu**, Stanford University; **Yu Zou**, University of Toronto; **Mostafa Hassani**, Cornell University; **Ming Chen**, Northwestern University

SYMPOSIUM SPONSORS

TMS Materials Processing & Manufacturing Division, TMS Structural Materials Division, TMS Additive Manufacturing Committee, TMS Electronic Packaging and Interconnection Materials Committee, TMS Nanomechanical Materials Behavior Committee

www.tms.org/TMS2025

QUESTIONS?

Contact programming@tms.org