

MARCH 3–7, 2024 HYATT REGENCY ORLANDO ORLANDO, FLORIDA, USA #TMSAnnualMeeting



## SUBMIT AN ABSTRACT FOR THE FOLLOWING TMS2024 SYMPOSIUM:

### MATERIALS SYNTHESIS AND PROCESSING

# Materials Processing and Kinetic Phenomena: From Thin Films and Micro/Nano Systems to Advanced Manufacturing

Materials processing plays a key role in a wide variety of critical and emerging technologies, including thin film processing, micro/nano manufacturing, quantum technologies, and additive manufacturing. To go beyond empirical process development and recipe optimization, a critical and in-depth understanding of the processing science and underlying kinetic phenomena is instrumental.

This symposium aims to bring together a wealth of researchers and leaders to discuss how materials processing science has been and is being applied to address the pressing needs in thin film processing and micro/nano manufacturing. It also aims to provide a platform to discuss how processing science and kinetics can best benefit emerging fields, such as additive manufacturing.

Topics of interests include:

- kinetic phenomena at the micro/nanoscale: e.g., dewetting and pattern formation
- thin film processing: stress/microstructure/phase evolution
- processing science and kinetic phenomena underlying advanced manufacturing
- Integration of AI and data-driven approaches with materials processing science.

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#### SYMPOSIUM SPONSORS

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## QUESTIONS? Contact programming@tms.org