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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:

MATERIALS DESIGN

Hume-Rothery Symposium on First-Principles Materials Design

This symposium will bring together experts in the application of first principles calculations of complex and functional materials, to assess the current state of the art in their application to ab-initio and data-driven materials discovery and design. Topics will cover, but are not limited to, high throughput materials discovery, first principles-based phase diagram constructions, thermodynamic and kinetic properties of multi-component materials, and the use of ab-initio methods to understand the synthesis of materials. It will survey recent progress in method and theory developments that are driven by the materials genome initiatives, with a particular emphasis on development of computational and machine-learning methods and autonomous experimentation to guide materials synthesis, characterization, and new functionality. Sessions will include talks by experts in computational methods and applications, as well as experimenting working at the forefront of data-driven synthesis and characterization.

The session is by invitation only.

ORGANIZERS

Bin Ouyang, Florida State University
Mark Asta, University of California, Berkeley
Geoffroy Hautier, Dartmouth College
Wei Xiong, University of Pittsburgh
Anton Van der Ven, University of California, Santa Barbara

SYMPOSIUM SPONSORS

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