

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:

MATERIALS PROCESSING

Rare Metal Extraction & Processing

This symposium will cover extraction of rare metals from primary and secondary materials and residues and recycling of rare metals, as well as rare extraction processing techniques used in metal production. The focus of this symposium will be on rare metals—less common metals or minor metals (those that are not covered by other TMS symposia)—such as antimony, bismuth, barium, beryllium, boron, calcium, chromium, gallium, germanium, hafnium, indium, manganese, molybdenum, platinum group metals, rare earth metals, rhenium, scandium, selenium, sodium, strontium, tantalum, tellurium, and tungsten.

Rare metal processing will cover bio-metallurgy, hydro-metallurgy, and electro-metallurgy. Novel high-temperature processes such as microwave heating, solar-thermal reaction synthesis, and cold crucible synthesis of rare metals will be included. Design of extraction equipment used in these processes will be included from suppliers, as well as laboratory and pilot plant studies.

ORGANIZERS

Takanari Ouchi, University of Tokyo
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SYMPOSIUM SPONSORS

TMS Extraction & Processing Division
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TMS Recycling and Environmental Technologies Committee

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QUESTIONS?
Contact programming@tms.org