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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:

MATERIALS SYNTHESIS AND PROCESSING

REWAS 2025: Sustainable Practices in Strategic and Critical Raw Materials: Exploring Supply Chain Resilience and Recycling Innovations



The technological and societal advancements require the use of advanced materials and the development of special alloys. Usually critical and strategic raw materials including metals, minerals, and natural materials are required. Strategic critical raw materials have economic importance, potential supply risk, complex production requirements and a fast growth in demand. Therefore, alternative sources are exploited, often called urban mining, to satisfy the need of critical metals, to reduce the risk of supply interference, facilitate industrial symbiosis and increase resource efficiency. The symposium seeks to highlight the exploitation of secondary sources for materials production and the utilization of those streams into production lines while meeting process and products requirements. Research focusing on understanding the fundamental mechanisms as well as the engineering aspects for the integration of secondary sources are encouraged. Special focus will be given on advanced extractive metallurgy methodologies, including sorting and separation. Articles focusing on life cycle analysis, materials flow and supply chain resilience analysis are encouraged.

ORGANIZERS

Mertol Gokelma, Izmir Institute of Technology; **Adamantia Lazou**, National Technical University of Athens; **Christina Meskers**, SINTEF; **Elsa Olivetti**, Massachusetts Institute of Technology

SYMPOSIUM SPONSORS

TMS Extraction & Processing Division, TMS Recycling and Environmental Technologies Committee

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QUESTIONS?

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