



22 JUNE 2026, 11:00 AM
SEMINAR ROOM - POLO FERRARI 2

Strong electric fields and electric currents can significantly accelerate the high-temperature processing of ceramic materials.

This seminar will present recent advances in current-assisted ceramic processing, with particular focus on **flash sintering** and its effects on microstructure evolution, grain growth, and deformation.

Experimental results on zirconia ceramics will be discussed, to highlight the role of electric field and current-induced mechanisms beyond conventional thermal effects.



Speaker: Koji Morita
National Institute for Materials Science, Japan

His research focuses on advanced oxide ceramics, transparent ceramics, spark plasma sintering (SPS), and electric field-assisted processing. He has published around 200 scientific papers and is internationally recognized for his contributions to ceramic materials science.

Effect of electric fields and current on ceramic processing

DII SEMINAR

