

Intl. Symposium on Green Processing for Advanced Ceramics, Ise-Shima, Japan

Department of Functional Materials presented (besides others) thickest powder aerosol deposited film reported ever: 4 mm

Almost all global research players for aerosol deposition and other “cold” ceramic processes met on the Intl. Symposium on Green Processing for Advanced Ceramics (IGPAC) in Ise-Shima, Japan. It was initiated and greatly organized by Dr. Jun Akedo, the driver for the powder aerosol deposition technology. 160 participants from all over the world attended IGPAC in beautiful Ise-Shima in Japan from Oct. 5 - 10, 2025.

In his invited talk, Daniel Paulus presented a 4 mm thick dense ceramic device manufactured at room temperature using powder aerosol deposition. This is the thickest reported “film” ever.



How to anneal films very time and energy efficiently to restore fully the electrical properties at mild temperatures with very low energy input was shown by Jürgen Schneider. Prof. Ralf Moos gave an overview on our battery activities and Daniel Paulus showed how synchrotron radiation may help to evaluate the deposition mechanism.

Both, Daniel Paulus and Jürgen Schneider received the young scientist award for their great work. The picture shows all awardees during the banquet ceremony, together with Dr. Akedo, Prof. Clive Randall, and Prof. Ralf Moos who were co-organizers.

