



Contribution ID: 6

Type: Vortrag

In situ X-ray absorption spectroscopy to spatially resolve iron oxide phases in iron dust flames of Bunsen-type: Impact of flame conditions on phase evolution

Tuesday, September 16, 2025 11:50 AM (20 minutes)

Primary author: Dr HAGEN, Fabian (Karlsruhe Institute of Technology (KIT), Engler-Bunte-Institute (EBI), Combustion Technology)

Co-authors: Mr BRAUN, Lukas (Karlsruhe Institute of Technology (KIT), Institute for Chemical Technology and Polymer Chemistry & Institute of Catalysis Research and Technology); Dr DORONKIN, Dmitry (Karlsruhe Institute of Technology (KIT), Institute for Chemical Technology and Polymer Chemistry & Institute of Catalysis Research and Technology); Mr FEDORYK, Michal (Karlsruhe Institute of Technology (KIT), Engler-Bunte-Institute (EBI), Combustion Technology); Mr SEITZ, Malte (Karlsruhe Institute of Technology (KIT), Engler-Bunte-Institute (EBI), Combustion Technology); Mr MÜLLER, Jonas (Karlsruhe Institute of Technology (KIT), Engler-Bunte-Institute (EBI), Combustion Technology); Dr STELZNER, Björn (Karlsruhe Institute of Technology (KIT), Engler-Bunte-Institute (EBI), Combustion Technology); Prof. GRUNWALDT, Jan-Dierk (Karlsruhe Institute of Technology (KIT), Institute for Chemical Technology and Polymer Chemistry & Institute of Catalysis Research and Technology); Prof. TRIMIS, Dimosthenis (Karlsruhe Institute of Technology (KIT), Engler-Bunte-Institute (EBI), Combustion Technology)

Presenter: Dr HAGEN, Fabian (Karlsruhe Institute of Technology (KIT), Engler-Bunte-Institute (EBI), Combustion Technology)

Session Classification: Session 2

Track Classification: Experimentelle Grundlagenuntersuchungen