Posters 1

Eric Bach Pressure gain combustion for next

generation aero engines

Isaac Boxx Combustion and emission characteristics

of Diethoxymethane and Ethyl acetate at RCCI conditions, measured via two-photon

laser-induced fluorescence

Stefan Bube Power-based SAF production – A technical

comparison of competing synthesis

pathways

Nils Bullerdiek A system analysis of cost-efficient SAF

deployment pathways under climate-

target consistent conditions

Steffen Cramer & Sustainable Aviation Fuels from Olefin

Christopher Zschiesche Oligomerization

Rebecca Dischl Inflight measurements of particle

emissions from an Airbus A350-900 using

100% sustainable aviation fuel

Jan Donndorf Development of a minimal-fidelity model

of a turbofan engine running on SAFs

Bogdan Dorneanu Towards an innovative process for the

production of sustainable aviation fuels

from biogenic raw materials

Florent Dubray Production of Jet-Fuel-Range Olefins via

Catalytic Conversion of Pentene and Hexene over Mesoporous Al-SBA-15

Catalyst

Philipp Eiden Fluidized bed gasification in a 1 MWth

pilot plant for sustainable production of

biofuels

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Rabia Elbuga-Ilica Operando X-ray absorption spectroscopy

as a first step towards a knowledge-based optimization of Fischer-Tropsch catalysts

Ali Elwalily Methanol-to-JetFuel Pilot Plant – SAFari

Research Project

Aleksandr Fedorov Extracting Knowledge from Literature by

Data Science for Development of Highly-Selective CO₂ Fischer-Tropsch Catalysts

Nina Gaiser Insights into SAF Combustion: Molecular-

Beam Mass Spectrometry Experiments at DLR's Institute of Combustion Technology

Cherie Hsu Mixed metal (Mn, Al, Ti) cobalt oxide

model systems for optimizing sustainable aviation fuel production via Fischer-

Tropsch synthesis

Catalina E. Jiménez Multi-scale holistic approach at the BESSY

Il synchrotron light source for

investigating Fischer-Tropsch catalysts

Haisol Kim Liquid fuel-based FLOX® burner

development and spray characterization of

various injectors

Federico Lo Presti Reduced order modeling of

turbocomponents for future short/medium

range civil engines

Hannes Lüdtke Comprehensive two-dimensional gas

chromatography for prescreening and

optimization of sustainable fuels