Our annual International Conference on “Fuel Science – From Production to Propulsion” organized by the Cluster of Excellence “The Fuel Science Center”
The Fuel Science Center (EXC 2186: The Fuel Science Center ID: 390919832) aims at the generation of fundamental knowledge and novel scientific methods for the development of sustainable technical solutions to valorize renewable electricity and alternative carbon feedstocks into liquid energy carriers for CO₂-neutral and near-to-zero pollutant emission propulsion systems. In order to enable highly efficient and clean combustion, the FSC creates the basis for the integrated conversion of renewable electricity with biomass-based raw materials and CO₂ into liquid energy sources with high energy density, so called “Bio-hybrid Fuels”.

Adaptive Conversion Systems

- Scalability
- Hybridizability
- Variability

Closed Carbon Cycle
Near-to-zero Pollutant Emissions

Bio-hybrid Fuels

Adaptive Conversion Systems

CO₂

H₂

e⁻