

Deutscher Flammentag 2025

Wednesday, September 17, 2025

Poster Session B: Poster-Vorstellung - L1 (9:50 AM - 10:00 AM)

-Conveners: Heinz Pitsch

Poster Session B: Poster Session B - L - Foyer (10:00 AM - 11:00 AM)

time	[id] title	presenter
10:00 AM	[132] Einfluss der Ionenbildung auf die Verbrennungsprozesse in laminaren Flammen eines potenziellen Surrogatbrennstoffes	KEKSEL, Ewald
10:00 AM	[21] Investigation of Laminar Burning Velocity in Ammonia-Based Fuel Mixtures with Biogas and Hydrogen Addition	ECKART, Sven
10:00 AM	[48] Combustion Control of Hydrogen-Natural Gas Mixtures and Inline Gas Analysis with Ultrasonic Time-of-Flight Measurements	Dr ECKART, Sven
10:00 AM	[113] Phosphine induced flame inhibition of hydrogen/ammonia combustion	Mr DEWERTH, Mats-Ole
10:00 AM	[86] Investigation of Hydrogen Flame Effects and Long-Term Aging in a Hydrogen Atmosphere on Additive Manufactured Ceramics	THOTA, Deepak Varma
10:00 AM	[142] Flammentemperaturmessung mittels thermischer Trägheit von Thermoelementen – Dynamische Methode	WORTMEIER, Andreas
10:00 AM	[103] Experimental Investigation of CH ₄ /O ₂ /CO ₂ /H ₂ O Mixtures in a Single-Cylinder Spark Ignition Engine	ASGARZADE, Rufat
10:00 AM	[64] Pollutant emissions and flame stability limits of a fuel-flexible combustor for H ₂ and Jet-A1	SINGH, Samarjeet
10:00 AM	[139] Semi-empirical correlation models for NO _x and soot prediction in aircraft engines fueled with alternative fuels	Mr GIRHE, Sanket
10:00 AM	[72] Generic Design of a Sequential Combustion System for CH ₄ /H ₂ Gas Turbines	GOSSRAU, Christian
10:00 AM	[111] Fuel–air mixing investigation in a direct-injection hydrogen engine using tracer LIF	Dr DERAFAHSHAN, Saeed
10:00 AM	[68] Development and Application of an Adjoint-Based Framework for Hydrogen Burner Optimization	NERZAK, Svenja
10:00 AM	[148] Analyse und Modellierung des Einflusses thermodynamischer Instabilitäten in Turbulente H ₂ Flammen mithilfe von GPU-basierter DNS	Dr NICOLAI, Hendrik
10:00 AM	[98] Nanoparticle Deposition in Iron Powder Combustion – Effects of Thermophoresis on Deposition Efficiencies	HARTMANN, Nils
10:00 AM	[101] Numerical and experimental characterization of hydrogen-oxygen micro-cone flames	Dr ECKART, Sven
10:00 AM	[108] Experimentelle Untersuchungen und Modellierung transienter überkritischer Gasausströmungen aus einem Druckkessel	Ms RYLL, Fabienne
10:00 AM	[67] New Extension of a semi-detailed chemical kinetic model for Sustainable Aviation Fuels: A study on C ₈ -iso-alkanes	IHM, Ramona

10:00 AM	[110] Evaluating Adjoint-Based Data Assimilation Strategies for Shape Optimization in Hydrogen Combustion Stability Enhancement	SONG, Xiuyang
10:00 AM	[134] FexOy Nanoparticles Spray Flame Synthesis: Impact of Equivalence Ratio on Particle Evolution and Characteristics	MASSOPO, Orlando
10:00 AM	[28] Investigation of Combustion and Emissions Characteristics in a Methane-Fueled Engine: The Role of Spark Timing and Hydrogen Enrichment Using AVL Cruise M Simulation	NAVID, Ali
10:00 AM	[120] Optimization of Oxyfuel Biogas Combustion in Combined Heat and Power Plants: A Multi-Criteria Study	FRANKEN, Tim
10:00 AM	[84] Impact of Increasing the Reformer Gas Proportion on Combustion and Emissions in a Dual-Fuel Marine Engine	ARMIN, Mahbod
10:00 AM	[32] Zeitlich hochaufgelöste Emissionsmessungen an einem mit Wasserstoff betriebenen Vollringprüfstand	BONARENS, Matthias
10:00 AM	[136] Influence of Wall Destruction Reactions on Hydrogen Ignition Limits Under Varying Equivalence Ratios	EL HARRAB, Hayat
10:00 AM	[135] A Chemical Kinetic Study on Diesel/Ammonia Dual-Fuel Ignition and Emission Formation	Ms SLAVINSKAYA, Nadezda
10:00 AM	[73] Predicting emissions from oxygenated fuel combustion in marine diesel engines using a two-zone model	BAYKAL, Salih
10:00 AM	[82] Pyrolyse von Polypropylen-Partikeln unter überkritischen Bedingungen	THEVENIN, Dominique
10:00 AM	[76] Pilot stage design of a hydrogen jet burner - Numerical and experimental analysis of a mixing insert inside the pilot plenum	HILKEN, Felix Daniel