

Paper Number part 1	Paper Number part 2	Session Number	Title	Authors
		IL	Invited Lectures	
999	501	IL	Deflagration to detonation transition in meta-stable systems.	N.N. Smirnov
999	502	IL	Co-firing biomass with coal in fluidized bed combustion systems	Nevin Selçuk, Zuhail Gogebakan
999	503	IL	Detailed Chemical Kinetic Mechanisms for Combustion	H. J. Curran
999	504	IL	Developments and applications of laser techniques for combustion diagnostics	Marcus Aldén
999	505	IL	Chemical Looping Combustion: One Answer to Sequestering Carbon Dioxide	J.S. Dennis
		PS1	Combustion Chemistry I	Wednesday, 15 April, 10:30 - 13:00
810	029	PS1	Numerical analysis of the flame propagation in wide tubes: influence of gravity and heat transfer inside the wall	Vadim N. Kurdyumov, Eduardo Fernández-Tarrazo
810	032	PS1	Discovery of Principle on Combustion Promotion by a Specific Wave Number at the Regime of Far Infrared Ray –The Challenge to Realization of High Energy Saving and Low Emission of CO2	Satoshi Okajima
810	045	PS1	Reduction of a detailed kinetic model for the ignition of natural gas mixtures under gas turbine conditions	I. Gy. Zsély, T. Nagy, J. M. Simmie, H. J. Curran
810	046	PS1	A Computational Study of Enols: $H\cdot / CH_3\cdot / C_2H_5\cdot + CH_2=CHX$ (where $X=H, CH_3, OH$)	John M. Simmie, Henry J. Curran
810	048	PS1	A Computational Study of the H-abstraction Reactions of n-Butanol with the HO2 Radical	Grainne Black, John M. Simmie, Henry J. Curran
810	050	PS1	Theoretical study of rate coefficients and branching fractions in the propene + OH reaction	Judit Zádor, Ahren W. Jasper, James A. Miller
810	069	PS1	Shock Tube and Theory Investigation of Cyclohexane and 1-Hexene Decomposition	J. H. Kiefer, K. S. Gupte, L. B. Harding, S. J. Klippenstein
810	095	PS1	Shock wave study of kinetics of carbon particle charging	Emelianov, A. Eremin, H. Jander, S. Bronin, A. Khrapak
810	104	PS1	Experimental and Modelling Study of a Lean Premixed Isobutene/Hydrogen/Oxygen/Argon Flame	Véronique Dias, Jacques Vandooren
810	105	PS1	Experimental and numerical investigation of OH* chemiluminescence in shock tubes: Reactions of highly diluted H2/O2 mixtures with various diluents	M. Bozkurt, M. Hartmann, T. Kathrotia, U. Riedel, M. Fikri, C. Schulz
810	110	PS1	High Temperature Kinetics of the Pyrolysis of 1,3 Butadiene and 2-Butyne	S. Peukert, M. Braun-Unkloff, C. Naumann
810	123	PS1	Global and comparative analysis of chemical kinetics models in the self-ignition problem	V. Bykov, U. Maas
810	127	PS1	Kinetics of isothermal catalytic ignition of lower alkanes/air mixtures on platinum	D. Oancea, O. Staicu, V. Munteanu
810	137	PS1	A Thermokinetic Theoretical Study of the Isomerization Processes in Toluene and o-Xylene Oxidation	Sebastien Canneaux, Florent Louis, Marc Ribaucour
810	139	PS1	C3H6 + OH and C3D6 + OH: Addition-Elimination vs. Abstraction Reaction	C. Kappler, F. Striebel, M. Olzmann
810	163	PS1	Experimental Autoignition of C4-C6 Saturated and Unsaturated Methyl and Ethyl Esters	H. Bennadji, J. Biet, L. Coniglio-Jaubert, F. Billaud, P.A. Glaude, F. Battin-Leclerc
810	173	PS1	Plasma Assisted Combustion Technologies	Matveev, S. Matveeva, E. Kirchuk

Paper Number part 1	Paper Number part 2	Session Number	Title	Authors
810	179	PS1	Formation of Carbon Black in Propane-Air Diffusion Flames	H.M.Heravi, K.Bashirmezhad, D.F.Heravi, M.Aminzadeh
		PS2	Combustion Chemistry II	Wednesday, 15 April, 15:45 - 18:00
810	180	PS2	Theoretical kinetic study of the low temperature oxidation of ethanol	R. Fournet, P.A. Glaude, R. Bounaceur, M. Molière
810	185	PS2	A theoretical investigation of iron thermochemistry in flames	S. Staude, B. Atakan
810	190	PS2	Numerical Simulations of Pyrolysis of Wet Charring Materials using a One-dimensional Enthalpy based model	S.R. Wasan, P. Rauwoens, J. Vierendeels, B. Merci
810	209	PS2	Experimental and Numerical study of the structure of n-decane counterflow diffusion flames : Effect of Carbon Dioxide as an Additive	E. Betbeder-rey, P.Scoufflaire, P. Desgroux, A. El Bakali, G. Vanhove, B. Fiorina, O. Gicquel, G. Moréac, N. Darabiha
810	235	PS2	Detailed Kinetic Model of Gasoline Surrogate Mixtures	M.Mehl, H.J. Curran, W.J. Pitz, C.K.Westbrook
810	243	PS2	Structure of H ₂ /O ₂ /N ₂ Flames at Atmospheric Pressure Studied By Molecular Beam Mass Spectrometry and Modeling	D.A. Knyazkov, O.P. Korobeinichev, A.G. Shmakov, I.V. Rybitskaya, T.A. Bolshova, A.A. Chernov, A.A.Konnov
810	251	PS2	Theoretical study of the C ₆ H ₇ Energy Surface	X. Lories, J. Vandooren, D. Peeters
810	267	PS2	Study on the new aspects in HTAC combustion technology with gaseous fuels	S.Werle, R.K.Wilk
810	268	PS2	Thermo-acoustic Transfer Function of a Bunsen Flame: Transition from Laminar to Turbulent Regime	M. Manohar, V.N. Kornilov, L. P. H. de Goey
810	299	PS2	The response of swirling premixed flames to velocity perturbations	P. Palies, D. Durox, T. Schuller, S.Candel
810	304	PS2	Determination of the stability map of a premix burner based on flame transfer functions computed with transient CFD	R. Kaess, T. Poinsot, W. Polifke
810	317	PS2	Numerical Investigation of Methane-Fueled, Catalytic Microreactor Start-up	S. Karagiannidis, J. Mantzaras
810	319	PS2	The hydrogen-air burning rate near the lean flammability limit	D. Fernández-Galisteo, A.L. Sánchez, A. Liñán, F.A. Williams
810	325	PS2	Shock-Tube Ignition Delay Time Measurements and Chemical Kinetics Modelling for Mixtures of Dimethyl Ether and Methane in Air	Z. Serinyel, C.M. Zinner, C.J. Aul, N.S. Donato, G. Bourque, E.L. Petersen, H.J. Curran
810	335	PS2	An experimental and kinetic modeling study of methyl formate oxidation	S. Dooley, M. Chaos, M.P. Burke, Y. Stein, F.L. Dryer, C.A. Daly, V.P. Zhukov, O. Finch, J.M. Simmie, H.J. Curran
810	346	PS2	Experimental and Theoretical Study of the Reactions C ₂ H ₅ CO + O ₂ and CH ₃ CHC(O)H + O ₂	R. Nádassdi, I. Szilágyi, G. L. Zügner, S. Dóbbé, J. Zádor, X. Song, B. Wang
810	347	PS2	n-Propylcyclohexane lean oxidation and autoignition at low temperatures and elevated pressures	M. Crochet, G. Vanhove, M. Ribaucour, R. Minetti
811	395	PS2	Kinetic Modeling of Cyclohexane Oxidation with PAH Formation	N. A. Slavinskaya, M. Wacker, M. Aigner
		PS3	Combustion Chemistry III	Thursday, 16 April, 10:30 - 13:00
810	030	PS3	Experimental study of NO reduction by Gas Reburning and Selective Non-Catalytic Reduction processes in a semi-industrial reactor.	D. Quang Dao, L. Gasnot, J.F. Pauwels
810	031	PS3	Influence of Inert Gas Dilution on Soot Formation in Laminar Non-Premixed Methane Flames Studied by Laser-Induced Incandescence (LII)	A. Flügel, J. Kiefer, A. Leipertz
810	096	PS3	Experimental and Kinetic Modelling Study of the Impact of NO and NO ₂ on the Oxidation of a Primary Reference Fuels Mixture	G. Dayma, P. Dagaut
810	136	PS3	Chemistry of NO _x decomposition at flame temperatures	E.N. Volkov, A.A. Konnov, M. Gula, K. Holtappels, A.A. Burluka
810	138	PS3	Shock-Tube Study of the Thermal Decomposition of NCN	A. Busch, M. Olzmann

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810	148	PS3	Effects of Co-firing Bosnian Coals with Wooden Biomass to the Emissions of NOx and SO2	A. Kazagic, I. Smajevic
810	158	PS3	NOx Formation by Synthesis Gas – Natural Gas Co-firing	K. Valler, Á. Wopera, Á. B. Palotás, K. J. Whitty
810	191	PS3	HCN oxidation in an O2/CO2 atmosphere	J. Giménez-López, A. Millera, R. Bilbao, M.U. Alzueta
810	202	PS3	Influence of the amount of ethanol added to acetylene on NO reduction during acetylene-ethanol mixtures oxidation	M. Abián, C. Esarte, A. Millera, R. Bilbao, M.U. Alzueta
810	210	PS3	Numerical and Experimental Study of NCN Mechanism: Contribution to Prompt-NO Formation	N. Lamoureux, S. Canneaux, A. El Bakali, F. Louis, J.F. Pauwels, P. Desgroux
810	220	PS3	Computations of Laminar Premixed Flames using Extended FPI Modeling	J. Savre, N. Bertier, Y. D'Angelo, D. Gaffié
810	248	PS3	Predicting NO Formation with Flamelet Generated Manifolds	J.A. van Oijen, L.P.H. de Goeij
810	282	PS3	Prompt-NO formation revisited: detecting NCN in low and atmospheric pressure flames	R.J.H. Klein-Douwel, N.J. Dam, J.J. ter Meulen
810	336	PS3	A Reduced Mechanism for Ethanol Oxidation	O. Röhl, N. Peters
811	429	PS3	The comprehensive modelling of n-heptane / iso-octane oxidation by a skeletal mechanism using the Chemistry Guided Reduction approach	L. Seidel, F. Bruhn, S. S. Ahmed, G. Moreác, T. Zeuch, F. Mauß
		PS4	Flames I	Wednesday, 15 April, 10:30 - 13:00
805	001	PS4	Computational and Experimental study of Laminar Non-Premixed Flames doped with Polycyclic Aromatic Hydrocarbons	L.M. Verhoeven, J.A. van Oijen, L.P.H. de Goeij
810	022	PS4	Measurement Of CO2 Emission And Stable Gas Species Concentrations Within A Natural Gas Diffusion Flame	J. C. Ofodu, H. I. Hart
810	051	PS4	Investigation of Hythane, LPG and DME Laminar Flame Speed by Ionization Current Method in a Constant Volume Bomb	Wu Xiaomin, Gao Zhongquan, Pi Min, Meng Xiangwen
810	068	PS4	Experimental Study of the Response Behaviour of Premixed Flames on the Excitation with Static as well as Transient Electric Fields	F. Altendorfner, S. Pfadler, F. Beyrau, A. Leipertz
810	118	PS4	Adiabatic laminar burning velocities of CH4 + H2 + air flames at low pressures	A.A. Konnov, R. Riemeijer, L.P.H. de Goeij
810	152	PS4	Effects of water vapor addition on the laminar burning velocity of methane oxygen-enhanced flames at atmospheric pressure	A. Mazas, D. Lacoste, B. Fiorina, T. Schuller
810	171	PS4	Characterisation of Lean Premixed Laminar Flames in High Pressure using PIV	D. F. Kurtuluş, C. Cohé, C. Chauveau, I. Gökalp
810	175	PS4	Three-Dimensional Detailed Simulation of Laminar Burners on Parallel Computers	Gábor Janiga, Dominique Thévenin
810	176	PS4	Temperature and Velocity Measurements in the Delft Jet-in-Hot-Coflow Burner	E. Oldenhof, M.J. Tummers, D.J.E.M. Roekaerts
810	184	PS4	Flame speed measurement in H2-N2O-Ar mixtures	R. Mével, F. Lafosse, N. Chaumeix, G. Dupré, C.-E. Paillard
810	197	PS4	Study of high pressure counter-flow methane flames	A. Matynia, L. Pillier, M. Idir, J.-L. Delfau, C. Chauveau, C. Vovelle
810	239	PS4	Dynamics of Premixed, Planar Pulsating Flame Fronts	J. Graña, A. Liñán
810	260	PS4	A novel multi-jet quartz burner for laminar near adiabatic calibration flames of temperatures and OH concentrations	B. Li, Yu Li, Z.-W. Sun, Z. S. Li, M. Aldén
810	261	PS4	Self-similar behavior of burned gases vitiated premixed flamelets including heat-loss	K. Wang, G. Ribert, P. Domingo, L. Vervisch
810	263	PS4	Structures and Burning Velocity of Biomass Derived Gas Flames	C. Liu, B. Yan, G. Chen, X.S. Bai
810	264	PS4	Structures and Stabilization of Low Calorific Value Gas Turbulent Partially Premixed Flames in a Conical Burner	B.B. Yan, B. Li, E. Baudoin, C.Y. Liu, Z.W. Sun, Z.S. Li, X.S. Bai, M. Aldén, G. Chen, M. Mansour

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810	266	PS4	Effects of a magnetic field on the stabilisation of a lifted diffusion flame	V. Gilard, P. Gillon, J.N. Blanchard
		PS5	Flames II	Wednesday, 15 April, 15:45 - 18:00
810	270	PS5	CFD Simulation of Methane Jet Burner	L. Perković, M. Baburić, P. Priesching, N. Duić
810	273	PS5	Laminar Burning Velocities of Typical Syngas Compositions	Eliseu Monteiro, Marc Bellenoue, Julien Sotton, Nuno Afonso Moreira, Salvador Malheiro
810	276	PS5	Adiabatic Burning Velocity of H ₂ -O ₂ Mixtures-Diluted With CO ₂ /N ₂ /Ar	V. Ratna Kishore, Ringkhang, Prathap C, Anjan Ray, M. R. Ravi
810	281	PS5	Nonlinearity of the Thermo-acoustic Flame Transfer Function Measurement and/or Modeling	V. Kornilov, R. Rook, P. De Goey
810	287	PS5	Experimental Study of Non-Premixed CH ₄ /Air Flame: Effect of CO ₂ Addition and Reactant Preheating	Jiesheng Min, Françoise Baillot, Aurélie Wyzgolik, Eric Domingues, Martine Talbaut, Béatrice Patte-Rouland, Cédric Galizzi
810	288	PS5	Unsteady response of premixed flames to acoustic pressure pulses under variation of the complexity of the reaction mechanism	H. Schmidt, C. Jiménez
810	330	PS5	Hybrid RANS/PDF simulations of Sydney Swirling Flames	R. De Meester, B.Merci, B.Naud
810	332	PS5	Investigation of turbulent premixed combustion near extinction by Raman scattering	F. Zieker, R. Schießl, U. Maas
810	337	PS5	Towards the mechanism of DC electric field effect on flat premixed flames	E.N. Volkov, A.V.Sepman, V.N. Kornilov, A.A. Konnov, Y.S. Shoshin, L.P.H. de Goey
810	358	PS5	Experimental study of performances and internal flow field of a meso-scale vortex-combustor	F. Cozzi, A. Coghe, Y. D'Angelo, B. Renou, M. Boukhalfa
810	359	PS5	Burning velocity of methane – air Bunsen flame tip measured by PIV	G. Garcia-Soriano, F. Higuera, J.L. Castillo, P.L. Garcia-Ybarra
811	374	PS5	Effects of Diluents on the Behavior of the Diluted Combustion Regime	Yuying LIU, Jean-Michel MOST
811	384	PS5	Scalar Characteristics of a Premixed Turbulent Stagnating Flame (butane-air)	M.S. Boulahlib, N. Baaliouamer, F. Gaci
811	394	PS5	Power spectra measurements for the density fluctuation in a jet flame using dual laser vibrometry	S. Köberl, F. Giuliani, F. Fontaneto, J. Woisetschläger
811	421	PS5	Dynamical motion of lean swirling premixed flame generated by change in gravitational orientation	Hiroshi Gotoda, Takaya Miyano, Ian G. Shepherd
811	427	PS5	Combustion of Jet Fuels and its Surrogates in Laminar Nonuniform Flows	S. Humer, U. Niemann, R. Seiser, K. Seshadri, E. Pucher
812	436	PS5	Numerical simulation of a strained laminar flame burner and comparison with the experiment	D. Davidenko, N. Bouvet, L. Pillier, C. Chauveau
		PS6	Flames III	Thursday, 16 April, 10:30 - 13:00
809	004	PS6	Lean Stratified Combustion: a Generic Premixed Jet Flame Series for Model Validation	F. Seffrin, F. Fuest, D. Geyer, A. Dreizler
810	018	PS6	Validation of Unsteady Flamelet / Progress Variable Methodology for Non-premixed Turbulent Partially Premixed Flames	S. K. Sadasivuni, W. Malalasekera, S. S. Ibrahim
810	020	PS6	Modeling of spiral counterflow heat recirculating combustors for MEMS application	Emre Özgül, Bayindir H. Saracoglu, Hasan Bedir
810	033	PS6	On the Influence of Mesh Generation and Manipulation Methods on the Quality of RANS-based Turbulent Combustion Simulations	D. Christ, D. Toporov, R. Kneer
810	038	PS6	Efficient NOCalculations in Turbulent Non-Premixed Flames Using PDF Methods	Michael A. Wild, Benjamin T. Zoller, Jonas Allegrini, Patrick Jenny

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810	039	PS6	A Joint Probability Density Function (PDF) Model for Turbulent Premixed Combustion	Mathias L. Hack, Julia Schmoker, Patrick Jenny
810	049	PS6	Accurate Integration of Particle Position and Velocity in PDF Simulations	Michael J. Hegetschweiler, Patrick Jenny
810	060	PS6	Transition from Gradient to Countergradient Scalar Transport in Developing Premixed Turbulent Flames	A.N. Lipatnikov
810	064	PS6	Modelling of non-unity Lewis number effects on scalar dissipation rate transport in turbulent premixed flames	N. Chakraborty, N. Swaminathan
810	071	PS6	Detailed kinetic models for the low-temperature auto-ignition of gasoline surrogates	R. Bounaceur, P.A. Glaude, R. Fournet, V. Warth, F. Battin-Leclerc
810	078	PS6	Computational modelling of swirling diffusion flame in air-staged burner	P. Bělohradský, Vít Kermes, Petr Stehlík
810	083	PS6	Scalar Dissipation rate transport modelling of partially premixed flames using Direct Numerical Simulations (DNS)	Sean P. Malkeson, N. Chakraborty
810	087	PS6	Intense Homogeneous and Isotropic Turbulence Generated by Multi-Scale Grids. Application to Premixed Combustion.	N. Mazellier, L. Danaila, B. Renou
810	088	PS6	Three-dimensional Direct Numerical Simulation of Premixed Hydrogen/Air Flame Dynamic in Microtubes.	G. Pizza, C.E. Frouzakis, J. Mantzaras, A.G. Tomboulides, K. Boulouchos
810	098	PS6	Modelling Study of the Low-Temperature Oxidation of Large Methyl Esters	J. Biet, V. Warth, O. Herbinet, P.A. Glaude, F. Battin-Leclerc
810	208	PS6	ALVA 20: A 20 kW Atmospheric Laboratory Combustion Facility to Investigate the Combustion Behaviour Under „Close-to-Reality“ Conditions	S. Tappe, H. J. Krautz
810	255	PS6	The Effect of Endplates on Rectangular Jets of Different Aspect Ratios	M. Alnahhal, Th. Panidis
810	362	PS6	Experimental Characterization of Combustion Instabilities in Double-Stage Swirl Chamber	Dener Silva de Almeida, Cristiane Aparecida Martins, Pedro Teixeira Lacava
810	366	PS6	Influence of strain and heat loss on flame stabilization in a non-adiabatic combustor	L. Tay Wo Chong, T. Komarek, M. Zellhuber, J. Lenz, C. Hirsch, W. Polifke
811	407	PS6	Experimental and Numerical Study of Thermocouple-Induced Perturbation of the Flame Structure	P.A. Skovorodko, O.P. Korobeinichev, A.G. Tereshchenko, D.A. Knyazkov, A.A. Paletsky
		PS7	Flames IV	Thursday, 16 April, 15:45 - 18:00
810	103	PS7	A hybrid transported PDF/CFD model for turbulent flames using REDIM	S. Lipp, F. Magagnato, U. Maas
810	106	PS7	Modelling of Turbulent Premixed Flames using Strained-Flamelets	H. Kolla, N. Swaminathan
810	112	PS7	Joint Scalar PDF Simulations of Bluff-Body Stabilised Flames with the REDIM Approach	B. Merci, B. Naud, D. Roekaerts, U. Maas
810	133	PS7	CFD-Simulation of supercritical LOX/GH2 combustion considering consistent real gas thermodynamics	M. Poschner, M. Pfitzner
810	140	PS7	A flamelet model to predict extinction and reignition in turbulent non-premixed flames based on the PSP mixing model	Benjamin T. Zoller, Patrick Jenny
810	142	PS7	DNS of Spark Ignition in Turbulent Droplet-laden Mixing Layers	A. Neophytou, E. Mastorakos, R.S. Cant
810	144	PS7	NO formation in flameless combustion: comparison of different modeling approaches	A. Parente, A. Cuoci, C. Galletti, A. Frassoldati, T. Faravelli, L. Tognotti
810	145	PS7	Kinetic and Fluid Dynamics Modelling of a Methane/Hydrogen Jet Flames in Diluted Coflow	A. Frassoldati, Pratyush Sharma, Albert Guoci, Tiziano Faravelli, Eliseo Ranzi
810	170	PS7	DES of a Premixed Methane-Air Flame using a DTF approach	B. Sainte-Rose, N. Bertier, S. Deck, F. Dupoirieux

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810	172	PS7	Automated Mechanism Generation and Kinetic Modeling for Partial Oxidation of Iso-Octane	G. Baldea, L. Maier, M. Hartmann, U. Riedel, O. Deutschmann
810	199	PS7	On the Mean Stretch Rate of Premixed Flames	Y.L. Shoshin, L.P.H. de Goey
810	200	PS7	Stochastic multiple mapping conditioning for scalar mixing in Sandia flame D	K. Vogiatzaki, S. Navarro-Martinez, A. Kronenburg, W. P. Jones
810	211	PS7	Testing of H ₂ -O ₂ kinetic schemes in CFD calculations	V.P. Zhukov
810	217	PS7	Multidimensional Flamelet Manifolds for hybrid combustion regimes	P.-D. Nguyen, V. Subramanian, P. Domingo, L. Vervisch
810	218	PS7	An LEM-LES Method for Incompressible Reacting Flows with Finite-Rate Chemistry	O.T. Stein, A.M. Kempf
810	231	PS7	Assessment of modeling approaches for the simulation of non-premixed and partially premixed turbulent combustion processes	Jan E. Anker, Kilian Claramunt, Charles Hirsch
810	236	PS7	Joint EulerLagrange Method for MultiScale Problems	M. W. A. Pettit, A. M. Kempf
810	246	PS7	Autoignition tabulation of N-Heptane in ECFM-3Z Combustion Model	M. Ban, P. Priesching, N. Duic
810	250	PS7	Investigation of Turbulence Models Capability in Predicting Mixing in the Near Field Region of Hydrogen Enriched Natural Gas Turbulent Non-premixed Air Flames	F. Tabet, A. Boland, H. Mlaouah, B. Sarh, I. Gökalp
810	271	PS7	A 3D geometrical substructure based on LEM	Sigurd Sannan, Torleif Weydahl, Alan R. Kerstein
		PS8	Turbulent Combustion - DNS & LES I	Wednesday, 15 April, 10:30 - 13:00
809	005	PS8	Coupling Imaging Diagnostics and Large Eddy Simulations in Turbulent Non-reacting Jets and Non-premixed Jet Flames	Jonathan H. Frank, Sebastian A. Kaiser, Joseph C. Oefelein
810	011	PS8	Evaluation of algebraic flame surface wrinkling model for bluff body stabilized flames and large-eddy simulation quality assessment for non-reacting and combusting flows	B. Manickam, S. P. R. Muppala, J. Franke, F. Dinkelacker
810	047	PS8	Numerical Simulations of Hydrogen Auto-ignition in a Turbulent Co-flow of Heated Air with a Conditional Moment Closure	I. Stanković, A. Triantafyllidis, E. Mastorakos, C. Lacor, B. Merci
810	075	PS8	Experimentally based a-priori tests of subgrid-scale models for large-eddy simulations in turbulent premixed flames	J. Kerl, S. Pfadler, F. Beyrau, A. Leipertz, J. Scheuerlein, F. Dinkelacker
810	195	PS8	Large Eddy Simulation of Spray Atomisation with Stochastic Modelling of Breakup	W. P. Jones, C. Lettieri, A. J. Marquis
810	219	PS8	On the Limitations of Constant Prandtl and Schmidt Numbers Assumption in LES Simulations of Reacting Buoyant Plumes	T. Beji, J.P. Zhang, W. Yao, M. Delichatsios
810	221	PS8	Large Eddy Simulation of Evaporating Kerosene Sprays	W. P. Jones, S. Lyra, A. J. Marquis
810	222	PS8	Large Eddy Simulation of a piloted methane jet flame with high levels of extinction (Sandia Flame E) using the Eulerian stochastic field method	W.P.Jones, V.N.Prasad
810	234	PS8	Large Eddy Simulation of a Turbulent Lifted Flame via Rate-Controlled Constrained Equilibrium	S. Rigopoulos, S. Navarro-Martinez
810	292	PS8	Optimization of DNS/LES explicit solvers for combustor simulations using local time-stepping	O. Esnault, R. Vicquelin, M. Boileau, B. Fiorina, O. Gicquel
810	297	PS8	Sensitivities of an isothermal and reacting bluff body configuration in terms of artificial inflow turbulence and mixture fraction PDF modelling	J. Kuehne, C. Klewer, J. Janicka
		PS9	Turbulent Combustion - DNS & LES II	Wednesday, 15 April, 15:45 - 18:00
810	314	PS9	Numerical Study of Turbulent Non-Premixed Jet Flame Stability	S. Navarro-Martinez, A. Kronenburg

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810	318	PS9	Fractal scaling in turbulent premixed flame fronts and implications for LES modeling	G.Troiani, F. Picano, S. Giammartini, C.M. Casciola
810	341	PS9	Mixing Models for the Simulation of Stratified Combustion	O. R. Darbyshire, N. Swaminathan, S. Hochgreb
810	345	PS9	Flow-Controlled Chemistry Tabulation (FCCT) for Large-Eddy Simulation of turbulent combustion with detailed chemistry	N. Enjalbert, P. Domingo, L. Vervisch
810	352	PS9	Linear Eddy Modelling of the Sub-grid Scalar Mixing	J. S. Ochoa, N. Fueyo
810	369	PS9	Linear and non-linear evolution of propagating lean H ₂ /air premixed flames	C. Altantzis, C. E. Frouzakis, A.G. Tomboulides, K. Boulouchos
810	370	PS9	Autoignition of a diluted hydrogen jet in a heated 2-D turbulent air flow	S.G. Kerkemeier, C.E. Frouzakis, A.G. Tomboulides, E. Mastorakos, K. Boulouchos
811	372	PS9	Effects of Evaporating Drops on Conditional Moment Closure for Turbulent Multiphase Combustion	J. Xia, K. H. Luo
811	386	PS9	Experiments and Large Eddy Simulation of Underventilated Pool Fires	S. E. Yakush, G. M. Makhviladze, A.V. Chamchine, P. Oleszczak
811	389	PS9	Flame Response to a Pulsating Pilot Jet in an Unconfined Double-Concentric Swirl Burner	P. Wang, S.K.M. Ayyash, J. Fröhlich
811	412	PS9	Numerical Simulation of Confined Flares	Francesco Saverio Marra, Gaetano Continillo
		PS10	Heterogeneous Combustion & Gasification	Wednesday, 15 April, 10:30 - 13:00
810	122	PS10	Advantage of using water-emulsified fuel on combustion and emission characteristics	T. Yatsufusa, T. Kumura, Y. Nakagawa, Y. Kidoguchi
810	128	PS10	Simplified method of solid fuels characterization and its application for modelling of fixed bed combustion	Radovan Nosek, Andrzej Szlek, Jozef Jandacka
810	153	PS10	Co-firing Cynara biomass residues with two coals in a PF furnace	A. Gil, C. Bartolomé, I. Ramos
810	157	PS10	Characterization of the Combustion Properties of Solid Biofuels	K. Szemmelweis, I. Szűcs, Á. B. Palotás, B. Juhász
810	212	PS10	To the Porous Carbon Particle Combustion in Oxygen	V. M. Greymachkin, A. S. Efimov
810	254	PS10	Kinetics of Coal Char Combustion under Oxygen-Enhanced Conditions	T. Czakiert, W. Nowak
810	275	PS10	Fragmentation of Biomass Particles under Severe Heating Conditions	O. Senneca, R. Chirone
810	279	PS10	An Euler-Lagrange modeling approach for the simulation of wood gasification in fluidized beds	S. Gerber, F. Behrendt, M. Oevermann
810	284	PS10	Development of a Semi-Empirical Model for the Combustion of Low-Density Biomass Briquettes for use in the Simulation of Cookstoves	J. Chaney, R. Wilson, M. J. Clifford
810	300	PS10	Experimental research on coal reburning process for NO _x reduction	Z.H. Wang, Z.J. Zhou, J.H. Zhou, K.F. Cen
810	315	PS10	Comparative study of ash deposition under air and oxyfuel combustion of coal/biomass blends	L. Fryda, C. Sobrino, M.Cieplik, C. Bertrand, W. de Jong, W. L. van de Kamp
810	316	PS10	Flame Investigation of Burning Titanium Powder	S. Kelzenberg, S. Knapp, V. Weiser, E. Roth, O. Schulz, N. Eisenreich
810	367	PS10	Hydrogen Energy Production Using Hydrothermal Process	P. Escot Bocanegra, C. Reverte, C. Aymonier, A. Loppinet-Serani, M.M. Barsan, I.S. Butler, J.A. Kozinski, I. Gökalp
811	378	PS10	Ignition and Combustion Phenomena of Silicon Particles in the Scope to Use it as a Green Fuel in Coal Power Plants	V. Weiser, E. Roth, A. Raab, O. Schulz
811	420	PS10	Numerical Analysis of Mass Transfer around a Single Pulverized Coal Particle during Combustion	Y. Matsushita, K. Yoshida, H. Aoki, T. Miura
812	434	PS10	The Role of Slag Formation on Late Carbon Conversion in Entrained Flow Gasification of Coal	Fabio Montagnaro, Piero Salatino

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812	435	PS10	A Novel Concept of Looping Combustion/Gasification of Carbon	Piero Salatino, Osvalda Senneca
		PS11	Soot, Nanoparticles and Material Synthesis	Wednesday, 15 April, 15:45 - 18:00
810	058	PS11	Soot measurements in laminar flames of gaseous and (prevaporized) liquid fuels	M. H. de Andrade Oliveira, C.C.M. Luijten, L.P.H. de Goeij
810	111	PS11	Automatic optimization of kinetic parameters for PAH and soot formation	M. Fischer, U. Riedel
810	165	PS11	Sooting Behavior of Oxygenated Fuels in a Diffusion Burner	M.D. Boot, C.C.M Luijten, R.S.G. Baert, R. Edenhofer, H. Dirks, K. Lucka, H. Köhne
810	182	PS11	3-Dimensional temperature imaging in a low-pressure flame reactor for nano-particle synthesis using tomographic tunable diode laser absorption and multi-line nitric-oxide laser-induced fluorescence imaging	H. Yang, C. Hecht, T. Dreier, H. Wiggers, C. Schulz
810	198	PS11	Influence of different concentrations of ethanol on the pyrolysis of acetylene	C. Esarte, A. Callejas, A. Millera, R. Bilbao, M.U. Alzueta
810	215	PS11	Measurements of Soot Volume Fraction, Specific Aromatic Species and temperature in Low-Pressure Sooting Methane Flames	M. Wartel, I. Burns, A. Faccinetto, J.-F. Pauwels, X. Mercier, P. Desgroux
810	265	PS11	High pressure interaction between C ₂ H ₄ and NO	J. Giménez, M.U. Alzueta, C.L. Rasmussen, P. Glarborg
810	277	PS11	Measurement and simulation of Fe-atom concentrations in premixed Fe(CO) ₅ -doped low-pressure H ₂ /O ₂ flames	I. Wlokas, S. Staude, C. Hecht, B. Atakan, C. Schulz
810	283	PS11	The effect of hydrogen addition to rich stabilized methane/air flames	A.V. Mokhov, S.Gersen, H.B. Levinsky
810	285	PS11	A simple approach of laminar soot modeling calibrated by nonsmoking, incipient-smoking and smoking ethylene diffusion flames	Wei Yao, Michael Delichatsios, Tarek Beji, Jianping Zhang
810	302	PS11	Modeling study of the soot formation process from toluene pyrolysis behind reflected shock-waves	O. Mathieu, J. Z. Wen, N. Djebaili-Chaumeix, C.-E. Paillard, M. J. Thomson
810	331	PS11	An experimental and modelling study of soot formation in a shock tube for kerosene and surrogate fuel at low concentration	U. Steil, C. Wahl, M. Aigner
811	390	PS11	Temperature effect on soot size distribution of sooting premixed flames	M. Alfè, B. Apicella, R. Barbella, A. Tregrossi, A. Ciajolo
811	392	PS11	A Two-Equation Soot Model Applied To The Oxidation Of Aliphatic And Aromatic Fuels in Shock Tubes	A. Marquetand, U. Riedel
811	396	PS11	Nanoparticles Formation during High Temperature Pulverized Coal Combustion	F. Carbone, F. Beretta, A. D'Anna
811	400	PS11	Thermomechanical Stability of the Reaction Front in the Technology Conditions	Knyazeva AG
811	402	PS11	Effect of H Addition on Soot and Nanoparticles Formation 2 for Rich Premixed Ethylene/Air Flames	F. Migliorini, S. De Iullis, F. Cignoli, G. Zizak, M. Sirignano, A. D'Anna
811	403	PS11	Experimental and Modeling Study on Soot Inception in Rich Premixed Aliphatic and Aromatic Flames	P. Minutolo, M. Commodo, M. Sirignano, A. D'Anna
		PS12/1	Spray and Droplet Combustion	Thursday, 16 April, 10:30 - 13:00
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810	063	PS12/1	Experimental and numerical study of a two-phase turbulent flame.	C. Letty, S. Saengkaew, B. Renou, G. Gréhan, J. Réveillon
810	072	PS12/1	Near-Field Thermal and Momentum Effects in Counterflow Spray Diffusion Flames	S. Lerman, A. Dvorjetski, J.B. Greenberg

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810	082	PS12/1	Mixture Fraction PDF and Dissipation in Dense Sprays	M.R.G. Zoby, S. Navarro-Martinez, A. Kronenburg
810	085	PS12/1	Propagation of Lean Premixed Spray Flames	L.S. Kagan, J.B. Greenberg, G.I. Sivashinsky
810	130	PS12/1	Numerical Modeling of Diesel Spray Formation and Combustion	C. Bekdemir, L.M.T. Somers, L.P.H. de Goeij
810	166	PS12/1	Two phase autoignition considering complex chemistry: evaporating droplet mass and heat transfer influence	Z. Bouali, C. Pera, J. Réveillon
810	322	PS12/1	The Boundary-Layer Structure of a Vaporizing Fuel Spray	J. Arrieta-Sanagustín, A.L. Sánchez, A. Liñán
		PS12/2	Fire Research and Heat Transfer Process	Thursday, 16 April, 10:30 - 13:00
810	007	PS12/2	Investigation of a Micro Combustion Chamber for a Thermoelectric Energy Converter	Thomas Kania, Andreas Dreizler
810	015	PS12/2	Evaluation of the Fractional Pressure Rise with Mass Fraction Burned in a Closed Vessel Combustion	Khizer Saeed
810	066	PS12/2	Ignition of Hydrogen/Air Mixtures by Streamer Discharges	Langer, T., Markus, D., Lienesch, F., Maas, U.
810	099	PS12/2	Numerical Simulation of Flame Acceleration and Deflagration to Detonation Transition with a Detailed Reaction Mechanism	F. Ettner, K.G. Vollmer, T. Sattelmayer
810	126	PS12/2	Critical properties for ignition and quenching of flammable n-butane-air mixture with variation of the initial pressure	N.G. Musat, V. Munteanu, D. Razus, D. Oancea
810	186	PS12/2	Modeling of an arc welding process using high temperature transport properties	T. Hoffmann, U. Riedel
810	204	PS12/2	Numerical study of the smoke plume for fire in an atrium	N. Tilley, B. Merci
810	224	PS12/2	A study on forest fuel combustion dynamics using the Fire Propagation Apparatus	P. Bartoli, A. Simeoni, P. Reszka, J.L. Torero, P.A. Santoni
810	351	PS12/2	Determination of ignition risk of unburnt gases in the extraction duct of an underventilated compartment fire	J. Lassus, E. Studer, P. Aine, J.P. Garo, J.P. Vantelon
810	353	PS12/2	Radiative Characteristics of Large Pool Fires of Organic Peroxides	Kirti Bhushan Mishra, K. D. Wehrstedt, A. Schönbucher
		PS13	Detonations and Explosions	Thursday, 16 April, 10:30 - 13:00
809	003	PS13	The Effects of Natural Convection and the Consumption of Reactant on the Occurrence of Thermal Explosion in a Reacting Gas Contained inside a Closed Spherical Vessel	T.-Y. Liu, A. N. Campbell, S. S. S. Cardoso, A. N. Hayhurst
810	008	PS13	Cellular Structure of Detonation Wave for Hydrogen-Methane-Air Mixtures	R. Porowski, A. Teodorczyk
810	023	PS13	Vented Explosions with a Vent Duct of Twice the Diameter of the Vent in a Vessel with an L/D of 2: Extremely Fast Turbulent Flames and High Overpressures in the Vent Duct.	R.M. Kasmani, G.E. Andrews, H.N. Phylaktou, S.K. Willacy
810	044	PS13	Detonation Onset in Non-uniform Dispersed Mixtures	J. Khadem
810	055	PS13	Detonation Wave Driven by Condensation	A. Emelianov, A. Eremin, V. Fortov, A. Makeich, H. Jander, J. Deppe
810	057	PS13	Ammonia: Detonation Hazards, Multi-Structure	A. Vasil'ev, V. Vasiliev
810	120	PS13	Detonation Diffraction from Tube to Space via Frontal Disk-Shape Obstacle	A. Smolinska, B. Khasainov, F. Viot, D. Desbordes, H.-N. Presles, A.A. Vasil'ev, A.V. Trotsyuk, P.A. Fomin, V.A. Vasiliev
810	167	PS13	Detonation characteristics of H ₂ /Natural Gas with Air mixture at various equivalence ratio and molar fraction of hydrogen	O. Bozier, R. Sorin, R. Zitoun, D. Desbordes
810	183	PS13	Experimental and numerical detonation cell in H ₂ -N ₂ O-Ar mixtures	R. Mével, D. Davidenko, F. Lafosse, G. Dupré, C.-E. Paillard
810	223	PS13	Reduced kinetic scheme for the simulation of detonation in H ₂ -N ₂ O-Ar mixtures	D. Davidenko, R. Mével, G. Dupré
810	232	PS13	Autoignitions of Diesel Fuel/Air Mixtures Behind Reflected Shock Waves	O.G. Penyazkov, K.L. Sevrouk, V. Tangirala, N. Joshi

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810	233	PS13	Autoignition of Hydrogen-Air Mixture at Nonuniform Flow and Boundary Conditions	O.G. Penyazkov, K.L. Sevruck, K. Alhussan
810	324	PS13	Viscous gas detonation waves: multifront structure and propagation conditions	A.V. Trotsyuk, M. S. Ivanov
811	375	PS13	Stabilization of detonation combustion of hydrogen-oxygen mixture in a supersonic nozzle	O.P. Shatalov, Yu.V. Tunik
811	376	PS13	Analysis of the Kinetic Data Described Oxygen-Hydrogen Mixtures Combustion	O.P. Shatalov, L.B. Ibraguimova, V.A. Pavlov, G.D. Smekhov, Yu.V. Tunik
		PS14/1	Stationary Combustion - Fluidised Beds and Gasifiers	Thursday, 16 April, 15:45 - 18:00
810	014	PS14/1	Gasification of Ethylene Glycol as Model Substance for Biomass Based Pyrolysis Oil: Detailed Reaction Mechanism Development and CFD Simulation	A. Rashidi, S. Hafner, U. Riedel
810	024	PS14/1	Wood Gasification in a Lab-scale Bubbling Fluidized Bed: Experiment and Simulation	L.He, E. Schotte, S. Thomas, A. Schlinkert, A. Herrmann, V. Mosch, V. Rajendran, S. Heinrich
810	213	PS14/1	Numerical simulation of wood gasification in a fluidized bed reactor using Euler-Euler modeling	M. Oevermann, S. Gerber, F. Behrendt
810	245	PS14/1	Steam Gasification of Low Rank Fuel – Biomass, Coal, and Sludge Mixture in A Small Scale Fluidized Bed	K.H. Ji, B.H. Song, Y.J. Kim, B.S. Kim, W. Yang, Y.T. Choi, S.D. Kim
810	252	PS14/1	Ash Attrition during Circulating Fluidized Bed Combustion of Dried Sewage Sludge	Tadaaki Shimizu, Yuuki Kubota, Masanori Toyono
810	290	PS14/1	Experimental evaluation of thermochemical use of two promising biomass fuels	Kyriakos D. Panopoulos, Despina Vamvuka
811	377	PS14/1	Numerical simulation of the post combustion zone of biomass firing systems	C. Maier, C. Jordan, M. Harasek
811	397	PS14/1	Quantifying of Flow Regime Probability in a Gas-Solid Fluidized Bed	M. Aghabarannejad, R. Sotudeh-Gharebagh, N. Mostoufi
811	399	PS14/1	Investigation of the start up procedure of a circulating fluidized bed test unit using a commercial steady state simulation tool	David Wöß, Werner Höttl, Tobias Pröll, Hermann Hofbauer
811	428	PS14/1	Sulphation of Gaseous KCl in a Biomass Fired CFB Boiler	Håkan Kassman, Linda Bäfver, Lars-Erik Åmand
		PS14/2	Stationary Combustion - Oxyfuel, CCS and CLS	Thursday, 16 April, 15:45 - 18:00
810	010	PS14/2	Enriched Oxygen Combustion Simulation for Rotary Kiln Application	B. Manickam, F. Dinkelacker, T. Lobe, M. Tertychnyy
810	013	PS14/2	Behaviour of Ilmenite as Oxygen Carrier in Chemical Looping Combustion	Ana Cuadrat, Alberto Abad, Juan Adánez, Luis de Diego, Francisco García-Labiano, Pilar Gayán
810	025	PS14/2	Chemical Looping Combustion Process applied to liquid fuels	A. Forret, A. Hoteit, T. Gauthier
810	062	PS14/2	Concept study of a 10MWth Chemical Looping Combustor for Power Generation	Johannes Bolhar-Nordenkamp, Tobias Pröll, Philipp Kolbitsch, Hermann Hofbauer
810	196	PS14/2	Coupling of oxygen-enhanced combustion and CO2 capture by membrane processes	L. Pillier, S. de Persis, G. Cabot, M. Boukhalfa, J.M. Most, I. Gokalp, R. Bounaceur, E. Favre
810	323	PS14/2	Active control of natural gas-oxygen flames by transversal jet actuators	T. Boushaki, JC. Sautet, B. Labégorre
811	385	PS14/2	Carbon Capture from Fossil Fuel Fired Power Plants without Efficiency Loss	R. Leithner, S. Magda, B. Apascarietei

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811	398	PS14/2	Oxyfuel combustion of alternative fuels in a circulating fluidized bed combustor – design of a 100 kW test unit	Werner Höttl, Tobias Pröll, Joachim Rohovec, Bernhard Kromberger, Hermann Hofbauer
811	410	PS14/2	The Comparison of a convectional TBK-Combustion to Oxyfuel TBK Combustion based on investigations into Nitrogen Oxide (NO) formation and respectively the reduction reactions in a 50 kW Pulverized Coal Combustion Test Facility	R. Wilhelm, S. Weigl, M. Beckmann
811	411	PS14/2	Comparative Analysis of the Regular Greenhouse Gas Emission of the Second National Distribution Plan and Ózd Steelworks Ltd.	K. Dóduj, M. Czilik, Á. Wopera, O. Grega, M. Hudákné Nagy
		PS15	Stationary Combustion - Burners and Furnaces	Friday, 17 April, 10:30 - 13:00
810	026	PS15	Particle Collection by an Electrostatic Precipitator from the Exhaust Gas of a Wood Combustion Stove	A. Bologa, H.-R. Paur, H. Seifert, K. Woletz
810	034	PS15	Formation of lean premixed flat flame using cylindrical porous metal plate burner	Pil Hyong Lee, Jae Young Lee, Sang Seok Han, Chang Soo Park, Sang Soon Hwang
810	035	PS15	Co-combustion of coal and SRF in an entrained flow reactor: a preliminary study	H. Wu, P. Glarborg, F. J. Frandsen, K. Dam-Johansen, P. A. Jensen, B. Sander
810	036	PS15	PyrlInno: Practical results of a small scale burner development	J. vom Schloss, L. Paesler, K. Lucka, H. Koehne, L. Kulisiewicz, A. Delgado
810	077	PS15	Comparative Study between Diesel Fuel and Hydrated Ethanol in Direct Burning	Edgar P. Paz, João A. Carvalho Jr, Luiz R. Carrocci, Ely V. Cortez, Marco A. Ferreira
810	081	PS15	Thermal Power Plant Boiler Misoperation - Case Study Using CFD	Indrusiak, M. L. S., Beskow A. B., Da Silva, C. V.
810	092	PS15	Experimental study on the influence of the pore size of SiSiC sponge on the flame stabilization in a porous burner	N. Djordjevic, P. Habisreuther, N. Zarzalis
810	109	PS15	Combustion Characteristics of Gaseous Fuels with Low Calorific Value in a Porous Burner	R. W. Francisco Jr., F. Rua, M. Costa, R. C. Catapan, A. A. M. Oliveira
810	113	PS15	Emission Measurements in a Multi-Burner FLOX® Furnace	B. Danon, E.-S. Cho, L. Arteaga Mendez, W. de Jong, D.J.E.M. Roekaerts
810	156	PS15	Mathematical Modeling of Mass and Heat Transport Processes Occurring within the Heat Exchanger System of Alumina Rotary Kilns	Viktor Zs. Baranyai, István Szűcs
810	162	PS15	Thermal processing for Heavy Metal Removal of Municipal Solid Waste Fly Ash	B. Nowak, A. Pessl, P. Aschenbrenner, H. Mattenberger, A. Friebert, H. Rechberger, L. Hermann, F. Winter
810	193	PS15	Silicon carbide based ceramics for high temperature applications	N. Popovska
810	240	PS15	Low Heating Value Gas Combustion in Reciprocal Porous Media System with Heat Recirculation	L. M. Cheng, G. Q. Wang, C. Yang, Z. Y. Luo, K. F. Cen
810	291	PS15	Mercury and heavy metals emissions from a lignite-fired power plant with FGD	Sofia Toulidou, Stavros M. Spyrakis, Kyriakos D. Panopoulos, Panagiotis Vourliotis, Nikolaos Koukouzas
811	413	PS15	Tests of Combustion of Rapeseed and Mineral Oils Mixtures	A. Zajdel, A. Krzak
		PS16	IC Engines & Gas Turbines I	Thursday, 16 April, 15:45 - 18:00
810	028	PS16	Estimation of the Oxides of Nitrogen Formation inside HCCI Engine Cylinder Using a Novel Multizones Model	K.Saeed, W. Abdelghaffar
810	040	PS16	Auto-ignition of toluene-doped n-heptane and iso-octane/air mixtures: High-pressure shock-tube experiments and kinetic modeling	M. Hartmann, I. Gushterova, R. Schießl, U. Maas, C. Schulz
810	052	PS16	Combustion and Emission Characteristics of Gasoline Blended with Alcohols	Liu Shenghua, Li Yi, Li Guangle, Chi Lei
810	054	PS16	Simulated impact of the addition of reformat on n-heptane oxidation under engine conditions	H. Ramirez-Lancheros, A. Darmon, G. Moréac

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810	061	PS16	A model of flame quenching in non-isothermal initial conditions	B. Boust, L. Bernard, J. Sotton, S. Labuda, M. Bellenoue
810	076	PS16	Simulation of the impact of N2-doped intake air on both NOx emissions and combustion efficiency for n-heptane oxidation in Diesel engine conditions.	F. Lagrèze, G. Moréac, L. Unger, H. Duval, J.B. Guillot
810	080	PS16	Crank angle resolved flow field characterization of a Heavy-Duty (PCCI) Engine	R.P.C. Zegers, T.J. van der Meyden, C.C.M. Luijten, N.J. Dam, R.S.G. Baert, L.P.H. de Goey
810	090	PS16	Reduction of Charge Exchange Work as a Way to Improve Efficiency of Internal Combustion Engine in Part Load	S. Postrzednik, Z. Zmudka
810	091	PS16	Ecological and Energy Aspects of Catalytic Converter Operation in Internal Combustion Engines	Z. Zmudka, S. Postrzednik
810	101	PS16	Temperature Development of Pre-combustion Processes in a High Pressure Cell	M. Yu, C.C.M. Luijten, R.J.M. Bastiaans, M. Ald'en, R.S.G. Baert, L.P.H. de Goey
810	134	PS16	Imaging of formaldehyde in a transient reacting free fuel jet	C. Pfeifer, D. Kuhn, H. Haessler, H. Bockhorn
810	155	PS16	Quantitative LIF Measurements of Formaldehyde in a Heavy-Duty Diesel Engine	A.J. Donkerbroek, J. Mannekutla, A.P. van Vliet, R.J.H. Klein-Douwel, N.J. Dam, L.M.T. Somers, J.J. ter Meulen
810	177	PS16	Analysis of the relation between thermal decomposition and PM reduction of bio-diesel mixed fuels in diesel combustion atmosphere	H.Noge, Y. Kidoguchi
810	181	PS16	Progress towards a method for ranking gases for knock resistance using ignition delay times	H.B. Levinsky, S.Gersen, M.H. Rothink, G.H.J. van Dijk
810	189	PS16	Investigation of Direct-Injection via Micro-Porous Injector Nozzle	J.J.E. Reijnders, C. Bekdemir, M.D. Boof, C.C.M. Luijten, L.M.T. Somers, L.P.H. de Goey
810	194	PS16	Use of ammonia as a Fuel for SI Engine	C. Duynslaegher, H. Jeanmart, J. Vandooen
810	253	PS16	Stabilization of Autoignition of Propane/Air Mixtures by Electrical Discharge	J.Sotton, S.Labuda, M.Bellenoue, V.Prevost
810	269	PS16	Two-Stage Combustion Mechanism for Reduction of CO2 Emissions with Simultaneous Rise of SI Engine Characteristics	R. Mehdiyev, P. Wolanski, H. Arslan
		PS17	IC Engines & Gas Turbines II	Friday, 17 April, 10:30 - 13:00
811	012	PS17	Thermal-Fluid-dynamic analysis of a premixed flame behavior due to various fuel load conditions	C. Mongiello, G. Calchetti, A. Di Nardo, S. Giammartini, M. Rufoloni
810	042	PS17	CFD Modelling of an Experimental Scaled Model of a Trapped Vortex Combustor	A. Di Nardo, G. Calchetti, C. Mongiello, S. Giammartini, M. Rufoloni
810	174	PS17	Experimental Analysis of the Combustion Behaviour of Syngas Mixtures in a Gas Turbine Model Combustor Under Elevated Pressure	Peter Kutne, Rajesh Sadanandan, Wolfgang Meier
810	274	PS17	Combustion Optimization of a Diesel Engine with EGR system using 1D and 3D simulation tools	Ivan Trindade, Celso Argachoy, Vinicius Peixoto, Marcelo Airoidi
810	289	PS17	Influence of a repetitively pulsed plasma on the flame stability domain of a lab-scale gas turbine combustor	S. Barbosa, G. Pilla, D. Lacoste, P. Scoufflaire, S. Ducruix, C. Laux, D. Veynante
810	293	PS17	Ignition properties of n-butane/iso-butane/methane mixtures in a RCM	S. Gersen, A.V. Mokhov, H.B. Levinsky
810	307	PS17	Premixed Combustion for Acetylene-Hydrogen Fuel Mixtures used in a Constant Volume Combustion Vessel for Thermodynamic State Generation	S. Johnson, J. Nesbitt, S.-Y. Lee, J.D. Naber
810	333	PS17	Exploring cyclic variability in a spark-ignition engine using experimental techniques, system simulation and Large-Eddy Simulation	C. Lacour, C. Pera, B. Enaux, O. Vermorel, C. Angelberger, T. Poinot

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810	343	PS17	A Study of n-Heptane/Ethanol HCCI Combustion Characteristics by Experiment and Detailed Chemical Kinetics Simulation	P. Saisirirat, F. Foucher, S. Chanchaona, C. Mounaïm-Rousselle
810	344	PS17	NOx emissions prediction for natural gas engines with fuel quality variations	G. Peureux, S. Carpentier, G. Lartigue
810	350	PS17	Natural Gas: a Study of the Autoignition of C1 – C5 Blends	D. Healy, H. J. Curran, C. Zinner, D. M. Kalitan, J. de Vries, C. J. Aul, E. L. Petersen, G. Bourque
810	361	PS17	Numerical study on the impact of stable intermediate chemical species on engine combustion	M. Magar, H. Wirbser, R. Schießl, U. Maas
811	383	PS17	Investigation of Utilization of Low Heating Value Gaseous Fuels in Gas Engine	V. Kovács, A. Meggyes
811	387	PS17	Soot modeling in automotive engines	C. Marchal, G. Moréac, C.Vovelle, C. Mounaïm-Rousselle, F. Mauss
811	414	PS17	Parameterised Mixing Time Model for Diesel Engines Simulation	M. Pasternak, F. Mauss, H. Bensler
811	422	PS17	Analysis of spray combustion of liquid biomass comparing with kerosene	A. Penninger, T. Laza
811	423	PS17	Influence of higher alcohols on the emissions of diesel engine operated with rape seed oil	Á. Bereczky, T. Laza
		PS18	Combustion Diagnostics, Instabilities & Oscillations I	Thursday, 16 April, 15:45 - 18:00
809	002	PS18	A Numerical Study on the Relation of OH*, CH*, and C2* Chemiluminescence and Heat Release in Premixed Methane Flames	T. Kathrotia, U. Riedel, J. Warnatz
810	065	PS18	High Repetition Rate Simultaneous Laser Diagnostics applied to Understanding In-Nozzle Mechanisms Controlling Flashback in Lean Premixed Swirled Combustors	C. Heeger, R.L. Gordon, M.J. Tummers, A. Dreizler
810	070	PS18	Basic principles of two emission spectroscopy techniques for soot volume fraction and temperature diagnostics in flames.	F. André, C. Galizzi, R. Vaillon, D. Escudié
810	093	PS18	A Novel Approach to Determine the Acoustic Transfer Matrices of Laminar Flat Flames	U. Neunert, C. Hirsch, T. Sattelmayer
810	097	PS18	Fluoranthene Laser-Induced Fluorescence with Applications for Imaging Temperature and Concentration in a Rapid Compression Machine	M. Kühni, C. Morin, P. Guibert
810	117	PS18	Spectroscopic Detection of OH in Rich Premixed Methane/Air, Hydrogen/Air and Methane/Oxygen Flames	J. Kiefer, A. Meyerhoefer, T. Seeger, A. Leipertz, Z.S. Li, M. Aldén
810	119	PS18	Advanced laser based measurements in porous media combustion	M.C. Weigl, T. Seeger, F. Beyrau, A. Leipertz, S.A. Tedder
810	159	PS18	Emission Measurements in Natural Gas Flames	L. Winkler, B. Gyarmati, Zs. Dobó, Á. B. Palotás
810	161	PS18	Measurement of laminar burning velocity – A new PIV approach	S. Balusamy, A. Cessou, B. Lecordier
810	178	PS18	Measurement of Instantaneous 3D-Distribution of Local Burning Velocity on a Turbulent Premixed Flame by Non-Scanning 3D-CT Reconstruction	Y. Ishino, K. Takeuchi, S. Shiga, N. Ohiwa
810	188	PS18	Particle Image Velocimetry for the Determination of Fundamental Flame Velocities: Methodology Validation and Application to Methane-Air Mixtures	N. Bouvet, L. Pillier, D. Davidenko, C. Chauveau, I. Gökalp
810	192	PS18	Premixed Flames as Gasdynamic Discontinuities: Integral Momentum Analysis	C. Bruzzese, H. Dirks, A.G. Class

Paper Number part 1	Paper Number part 2	Session Number	Title	Authors
810	225	PS18	Role of Intramolecular Interaction in CARS thermometry	M. Marrocco
810	238	PS18	Development of endoscopic Particle Image Velocimetry for application in high temperature furnace	D. Honoré, C. Rottier, G. Godard, F. Corbin, A.M. Boukhalfa
810	256	PS18	Simultaneous OH/fuel PLIF Imaging of a partially premixed jet flame inside the Quartz Cone of a Conical Burner	B. Li, B. Yan, E. Baudoin, Z.W. Sun, C. Liu, Z.S. Li, X.S. Bai, M. Alden, M.S. Mansour
810	257	PS18	Detection of C ₂ H ₂ and HCl using mid-infrared degenerated four-wave mixing with a novel beam arrangements: Towards practical in situ trace molecular species sensing	Z.-W. Sun, Z. S. Li, B. Li, M. Aldén
810	258	PS18	In situ detection of HCN and HCl as products from burning polymers with spatially resolved mid-infrared polarization spectroscopy (IRPS)	Z.-W. Sun, M. Försth, Z. S. Li, B. Li, M. Aldén
810	259	PS18	Turbulence and Combustion Interaction: High Resolution Local Flame Front Structure Visualization with Simultaneous Singleshot PLIF of CH and CH ₂ O in a Piloted Premixed Jet Flame	Z.S. Li, B. Li, Z.W. Sun, X.-S. Bai, M. Aldén
		PS19	Combustion Diagnostics, Instabilities & Oscillations II	Friday, 17 April, 10:30 - 13:00
810	009	PS19	Modelling and Simulation of Two-Component Lean Fuel/Air Flames using Local Burning Velocity and Leading Edge Concept	B. Manickam, S. P. R. Muppala, F. Dinkelacker
810	037	PS19	Excitation of the Micro-Structures of Physical Fields and Phenomenon of Negative Erosion During the Unsteady Combustion of Energetic Materials	A. N. Lukin
810	089	PS19	Impact of H ₂ addition on flame stability and pollutant emissions for an atmospheric kerosene/air swirled flame.	J-P. Frenillot, G. Cabot, M. Cazalens, B. Renou, M. Boukhalfa
810	131	PS19	Thermoacoustic instabilities in non zero Mach number mean flow configurations	K. Wieczorek, F. Nicoud
810	294	PS19	Numerical Investigations of Highly Diluted Lean CH ₄ /Air Oscillations at Low Temperatures	T. Wada, G. Paczko, N. Peters
810	296	PS19	Infrared Imaging of Uninhibited Cup-Burner Flame	V. Nevrlý, P. Bitala, M. Střížík, Z. Zelinger, P. Danihelka, T. Kollárik, E. Grigorová, L. Jánošík, R. Jelínková, A. Mikoczy
810	303	PS19	Experimental and Modeling study of cyclohexane oxidation under engine relevant conditions	T. Dubois, N. Chaumeix, A. Barret, C.E. Paillard
810	308	PS19	Chemiluminescence emission and laser-based species concentration and temperature imaging in counter-flow diffusion flames	A. Khartabil, M. Leschowski, C. Hecht, T. Dreier, C. Schulz
810	312	PS19	Premixed and Stratified Flame Diagnostics Based on 3D Flame Orientation	Mark Sweeney, Oliver Darbyshire, Simone Hochgreb, Robert Barlow
810	313	PS19	A-priori testing of an eddy viscosity model for the density weighted subgrid scale stress tensor in turbulent premixed flames	S. Pfadler, F. Beyrau, F. Dinkelacker, J. Scheuerlein, A. Leipertz
810	320	PS19	Effect of Electric Field on Flame Stability	M. Belhi, P. Domingo, P. Vervisch
810	321	PS19	Numerical investigation of combustion induced flame flashback in a premixed combustion system	T. Voigt, P. Habisreuther, N. Zarzalis
810	328	PS19	Endoscopic imaging LIF diagnostics in IC engines	C. Gessenhardt, F. Zimmermann, R. Reichle, C. Pruss, W. Osten, C. Schulz
810	329	PS19	Investigations of the Blue Emitting Phosphor BaMg ₂ Al ₁₀ O ₁₇ :Eu for Thermometry	J. Lindén, G. Särner, M. Richter, M. Aldén
810	365	PS19	Computed Tomography of Chemiluminescence (CTC): Instantaneous Measurements of a Matrix Burner	J. Floyd, A. L. Heyes, A. Kempf

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811	371	PS19	Examination of Eu-doped Thermographic Phosphors for Surface Temperature Measurements	A. Rabhiou, A. Kempf, A.L. Heyes
811	425	PS19	Fast Infrared Imaging to Study Industrial Burner Combustion	C. Allouis, F. Beretta, A. Ferrante, A. Saponaro
		PS20	Fuel Cells, Catalytic Combustion, Mild Combustion & Cool Flames	Friday, 17 April, 10:30 - 13:00
810	043	PS20	Development of stability diagrams of flame in diluted combustion	E. Sezgin, D. Lupant, B. Pesenti, P. Lybaert
810	073	PS20	Catalytic and environmental-friendly burners for natural gas combustion	S. Specchia, G. Toniato, V. Specchia
810	074	PS20	Catalytic combustion of CH ₄ /H ₂ /air mixtures in honeycomb micro-reactor	S. Burelli, L.D. Vella, S. Specchia, V. Specchia
810	100	PS20	Nonlinear effects of stretch on the flame front propagation	T. Tahtouh, F. Halter, C. Caillol, F. Foucher, C. Mounaïm-Rousselle
810	115	PS20	On the effect of air temperature on mild flameless combustion regime of high temperature furnace	C. Rottier, C. Lacour, G. Godard, B. Taupin, L. Porcheron, R. Hauguel, S.Carpentier, A.M. Boukhalfa, D. Honoré
810	135	PS20	Vaporisation of heating oil and diesel at high pressure using cool flame phenomena	H. Pohland vom Schloß, G. Niu, K. Lucka, H. Köhne
810	154	PS20	Sensitivity study of the low temperature oxidation	A. Medeiros, R.T.E. Hermanns, R. Edenhofer, K. Lucka, H. Köhne
810	227	PS20	Scrutinizing Alternative Spray Modelling Approaches for the Simulation of Diesel Oil "Stabilized Cool Flame" Reactors	D.I. Kolaitis, M.A. Founti
810	229	PS20	Detailed Kinetic Modelling of Hydrogen Production from Ethanol Reforming for Use in Fuel Cell Power Systems	G. Vourliotakis, G. Skevis, M.A. Founti
810	327	PS20	Experimental Analysis and Mathematical Interpretation of Spontaneous Ignition in an n-Heptane Cool Flame Reactor	D. Diarra, J. Lukito, K. Lucka, H. Köhne
810	338	PS20	Development and Investigations of a Compact, Wide Modulating Hydrogen-Air Premixed Combustion System For Ht-Pem Systems	S. Voss, E. Schiesswohl, R. Steinbrück, H. Turner, J. tom Felde, J. Volkert, D. Trimis
810	339	PS20	Comparison of Experimental and Numerical Results of Ultra-Lean H ₂ /CO Combustion within Inert Porous Media	S. Voss, M. Mendes, J. C. Pereira, D. Trimis
810	340	PS20	Parametric Experimental Investigation of a Small Scale Packed Bed Reactor for Thermal Partial Oxidation	A. Loukou, S. Voss, M. Mendes, A. Raimondi, D. Trimis
810	354	PS20	Simulation of Ignition Characteristics of Various Fuels in a Catalytic Microreactor	Vikram Seshadri, Niket. S. Kaisare
811	426	PS20	PAH/VOC Abatement Assisted by H ₂ O and H ₂ in Mild Combustion Condition	P. Sabia, G. Cardone, M. de Joannon, R. Ragucci, A. Cavaliere