Thomas Sattelmayer

List of Publications by Year
in descending order

305	4,814	109321	161849
papers	citations	35 h-index	54 g-index

307	307	307	1809
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical Equivalence Ratio Measurement of a Dual Fuel Burner for Natural Gas and Kerosene. Fluids, 2022, 7, 43.	1.7	2
2	On the convective wave equation for the investigation of combustor stability using FEM-methods. International Journal of Spray and Combustion Dynamics, 2022, 14, 55-71.	1.0	2
3	Observation of reactive shear layer modulation associated with high-frequency transverse thermoacoustic oscillations in a gas turbine reheat combustor experiment. International Journal of Spray and Combustion Dynamics, 2022, 14, 131-142.	1.0	1
4	Comparison of the flame dynamics of a premixed dual fuel burner for kerosene and natural gas. International Journal of Spray and Combustion Dynamics, 2022, 14, 176-185.	1.0	2
5	Ignition and combustion characteristics of diesel piloted ammonia injections. Fuel Communications, 2022, 11, 100068.	5.2	23
6	Energetically Consistent Computation of Combustor Stability With a Model Consisting of a Helmholtz Finite Element Method Domain and a Low-Order Network. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	2
7	Deflagration-to-detonation transition in H2-CO-Air mixtures in a partially obstructed channel. International Journal of Hydrogen Energy, 2021, 46, 12372-12383.	7.1	10
8	Experimental investigation of equivalence ratio fluctuations in a lean premixed kerosene combustor. Experiments in Fluids, 2021, 62, 1.	2.4	15
9	Assessment of condensation and thermal control in a photovoltaic panel by PV/T and ground heat exchanger. Solar Energy, 2021, 221, 502-511.	6.1	8
10	Efficient simulation of flame acceleration and deflagration-to-detonation transition in smooth pipes. Journal of Loss Prevention in the Process Industries, 2021, 71, 104504.	3.3	7
11	Impact of local flame quenching on the flame acceleration in H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e752" altimg="si5.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>-CO-air mixtures in obstructed channels. Journal of Loss Prevention in the Process Industries, 2021, 71, 104491.	3.3	7
12	Influence of geometry on flame acceleration and DDT in H2-CO-air mixtures in a partially obstructed channel. Journal of Loss Prevention in the Process Industries, 2021, 71, 104493.	3.3	3
13	Impact of pulsating flows on particle deposition in forward osmosis with spacers. Journal of Membrane Science, 2021, 635, 119444.	8.2	7
14	Influence of Hole-To-Hole Interaction On the Acoustic Behavior of Multi-Orifice Perforated Plates. Journal of Engineering for Gas Turbines and Power, 2021, , .	1.1	0
15	Particle counting and tracking: Zooming on deposition and flow paths during initial stages of cake formation in forward osmosis with spacers. Journal of Membrane Science, 2020, 597, 117619.	8.2	5
16	Hydrogen storage using liquid organic carriers: Equilibrium simulation and dehydrogenation reactor design. International Journal of Hydrogen Energy, 2020, 45, 24902-24916.	7.1	27
17	Where, when and why? Quantifying the relation of particle deposition to crossflow velocity and permeate water flux in forward osmosis. Journal of Membrane Science, 2020, 604, 118055.	8.2	4
18	Impact of Hydrodynamics on the First Stages of Biofilm Formation in Forward Osmosis with Spacers. Environmental Science & Technology, 2020, 54, 5279-5287.	10.0	11

#	Article	IF	Citations
19	ANALYSIS OF GROUND THERMAL CONTROL SYSTEMS FOR SOLAR PHOTOVOLTAIC PERFORMANCE ENHANCEMENT. , 2020, , .		3
20	Canonical Validation of a Modeling Strategy for Carbon Monoxide Emissions in Staged Operation of Gas Turbine Combustors. Journal of the Global Power and Propulsion Society, 2020, 4, 161-175.	0.8	0
21	Modification of Eigenmodes in a Cold-Flow Rocket Combustion Chamber by Acoustic Resonators. Journal of Propulsion and Power, 2019, 35, 765-779.	2.2	1
22	Local measurements on vertical subcooled flow boiling of refrigerant Novec 649. International Journal of Multiphase Flow, 2019, 119, 108-122.	3.4	8
23	Membrane scaling in Vacuum Membrane Distillation - Part 2: Crystallization kinetics and process performance. Journal of Membrane Science, 2019, 590, 117293.	8.2	6
24	Membrane scaling in Vacuum Membrane Distillation - Part 1: In-situ observation of crystal growth and membrane wetting. Journal of Membrane Science, 2019, 590, 117294.	8.2	14
25	Fundamental Study of Diesel-Piloted Natural Gas Direct Injection Under Different Operating Conditions. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	9
26	Experimental Investigation of Temperature and Condensation Control of Photovoltaic Panels. , 2019, , .		0
27	Numerical Investigation of Pressure Influence on the Confined Turbulent Boundary Layer Flashback Process. Fluids, 2019, 4, 146.	1.7	14
28	Identification of universal heat transfer characteristics along the boiling curve for vertical subcooled flow boiling of refrigerant Novec 649. Heat and Mass Transfer, 2019, 55, 3493-3507.	2.1	3
29	Experimental Study on Low Load Operation Range Extension by Autothermal On-Board Syngas Generation. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	0
30	Ignition of Diesel Pilot Fuel in Dual-Fuel Engines. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	8
31	Grundlagen der Verbrennung in stationÃren Gasturbinen. VDI-Buch, 2019, , 241-272.	0.1	0
32	Boundary Layer Flashback in Premixed Hydrogenâ€“Air Flames With Acoustic Excitation. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	15
33	Thermoacoustic Damping Rate Determination From Combustion Noise Using Bayesian Statistics. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	3
34	Comparison of Two Methods to Predict Boundary Layer Flashback Limits of Turbulent Hydrogen-Air Jet Flames. Flow, Turbulence and Combustion, 2018, 100, 849-873.	2.6	4
35	Multi-Effect Vacuum Membrane Distillation systems: Model derivation and calibration. Desalination, 2018, 438, 97-111.	8.2	15
36	Reduced order modelling of flow and mixing in an automobile HVAC system using proper orthogonal decomposition. Applied Thermal Engineering, 2018, 133, 211-223.	6.0	5

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37	Numerical Investigation of Reacting Flow in a Methane Rocket Combustor: Turbulence Modeling. Journal of Propulsion and Power, 2018, 34, 864-877.	2.2	28
38	NOx-Formation and CO-Burnout in Water-Injected, Premixed Natural Gas Flames at Typical Gas Turbine Combustor Residence Times. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	4
39	Prediction of Combustion Noise in a Model Combustor Using a Network Model and a LNSE Approach. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	2
40	Combustion Noise Prediction Using Linearized Navierâ€“Stokes Equations and Large-Eddy Simulation Sources. Journal of Propulsion and Power, 2018, 34, 198-212.	2.2	7
41	Low Load Operation Range Extension by Autothermal On-Board Syngas Generation. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	1
42	Pulsation-Amplitude-Dependent Flame Dynamics of High-Frequency Thermoacoustic Oscillations in Lean-Premixed Gas Turbine Combustors. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	11
43	Extraction of Linear Growth and Damping Rates of High-Frequency Thermoacoustic Oscillations From Time Domain Data. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	6
44	A Novel Reheat Combustor Experiment for the Analysis of High-Frequency Flame Dynamics: Concept and Experimental Validation. , 2018, , .		5
45	Local data of heat flux, wall temperature and the void phase along the boiling curve during vertical subcooled flow boiling of refrigerant Novec 649 at a copper wall. Data in Brief, 2018, 21, 1415-1429.	1.0	5
46	Large Eddy simulation of confined turbulent boundary layer flashback of premixed hydrogen-air flames. International Journal of Heat and Fluid Flow, 2018, 72, 151-160.	2.4	11
47	Influence of the Spatial and Temporal Interaction Between Diesel Pilot and Directly Injected Natural Gas Jet on Ignition and Combustion Characteristics. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	15
48	Influence of Injection Parameters and Operating Conditions on Ignition and Combustion in Dual-Fuel Engines. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	13
49	Modification of Eigenmodes in a Rocket Combustion Chamber by Acoustic Resonators under Non-Reacting Conditions. , 2018, , .		2
50	Fundamental Technologies for the Development of Future Space Transportsystem Components under high Thermal and Mechanical Loads. , 2018, , .		6
51	Critical Heat Flux in Flow Boilingâ€”Review of the Current Understanding and Experimental Approaches. Heat Transfer Engineering, 2017, 38, 347-360.	1.9	39
52	Predicting Flashback Limits of a Gas Turbine Model Combustor Based on Velocity and Fuel Concentration for H2â€“Air Mixtures. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	5
53	Large-Eddy Simulation of a Reacting Jet in Cross Flow With NOx Prediction. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	9
54	Linearized Euler Equations for the Prediction of Linear High-Frequency Stability in Gas Turbine Combustors. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	19

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55	High-Frequency Thermoacoustic Modulation Mechanisms in Swirl-Stabilized Gas Turbine Combustorsâ€"Part I: Experimental Investigation of Local Flame Response. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	24
56	Experimental Study of the Interaction of Water Sprays With Swirling Premixed Natural Gas Flames. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	16
57	High-Frequency Thermoacoustic Modulation Mechanisms in Swirl-Stabilized Gas Turbine Combustorsâ€"Part II: Modeling and Analysis. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	19
58	Prediction of Confined Flame Flashback Limits Using Boundary Layer Separation Theory. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	21
59	Flame Holding in the Premixing Zone of a Gas Turbine Model Combustor After Forced Ignition of H2â€"Natural Gasâ€"Air Mixtures. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	4
60	Low-Order Modeling of Nonlinear High-Frequency Transversal Thermoacoustic Oscillations in Gas Turbine Combustors. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	7
61	Operability Limits of Tubular Injectors With Vortex Generators for a Hydrogen-Fueled Recuperated 100â€‰kW Class Gas Turbine. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	2
62	Models for shock-induced ignition evaluated by detailed chemical kinetics for hydrogen/air in the context of deflagration-to-detonation transition. Journal of Loss Prevention in the Process Industries, 2017, 49, 731-738.	3.3	5
63	Computational Fluid Dynamics Simulation of Deflagration-to-Detonation Transition in a Full-Scale Konvoi-Type Pressurized Water Reactor. Journal of Nuclear Engineering and Radiation Science, 2017, 3, .	0.4	0
64	The Effect of Intrinsic Instabilities on Effective Flame Speeds in Under-Resolved Simulations of Lean Hydrogenâ€"Air Flames. Journal of Nuclear Engineering and Radiation Science, 2017, 3, .	0.4	4
65	Impact of the heat release distribution on high-frequency transverse thermoacoustic driving in premixed swirl flames. International Journal of Spray and Combustion Dynamics, 2017, 9, 143-154.	1.0	2
66	Boundary Layer Flashback in Premixed Hydrogen-Air Flames With Acoustic Excitation. , 2017, , .		2
67	Impact of Water Injection on Thermoacoustic Modes in a Lean Premixed Combustor Under Atmospheric Conditions. , 2017, , .		5
68	Predicting the Influence of Damping Devices on the Stability Margin of an Annular Combustor. , 2017, , .		4
69	Impact of Damper Parameters on the Stability Margin of an Annular Combustor Test Rig. , 2017, , .		3
70	Prediction of Combustion Noise in a Model Combustor Using a Network Model and a LNSE Approach. , 2017, , .		0
71	Hybrid RANS/LES of a supersonic combustor. Aerospace Science and Technology, 2017, 69, 563-573.	4.8	12
72	Linear stability assessment of a cryogenic rocket engine. International Journal of Spray and Combustion Dynamics, 2017, 9, 277-298.	1.0	20

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73	Three-dimensional CFD analysis of hydrogen-air-steam explosions in APR1400 containment. Nuclear Engineering and Design, 2017, 320, 386-399.	1.7	7
74	Analytic prediction of unconfined boundary layer flashback limits in premixed hydrogenâ€“air flames. Combustion Theory and Modelling, 2017, 21, 382-418.	1.9	12
75	Comparison Between Excited Hydroxyl Radical and Blue Radiation from Hydrogen Rocket Combustion. Journal of Propulsion and Power, 2017, 33, 490-500.	2.2	18
76	Linearized Euler Equations for the Determination of Scattering Matrices for Orifice and Perforated Plate Configurations in the High Mach Number Regime. Aerospace, 2016, 3, 33.	2.2	10
77	Impact of Flame Stretch and Heat Loss on Heat Release Distributions in Gas Turbine Combustors: Model Comparison and Validation. , 2016, , .		5
78	Linearized Euler Equations for the Prediction of Linear High-Frequency Stability in Gas Turbine Combustors. , 2016, , .		2
79	Predicting Flashback Limits of a Gas Turbine Model Combustor Based on Velocity and Fuel Concentration for H2-Air-Mixtures. , 2016, , .		0
80	Experimental Investigation of the Transition Mechanism From Stable Flame to Flashback in a Generic Premixed Combustion System With High-Speed Micro-Particle Image Velocimetry and Micro-PLIF Combined With Chemiluminescence Imaging. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	17
81	High Frequency Thermoacoustic Modulation Mechanisms in Swirl-Stabilized Gas Turbine Combustors: Part One â€" Experimental Investigation of Local Flame Response. , 2016, , .		9
82	Prediction of Confined Flame Flashback Limits Using Boundary Layer Separation Theory. , 2016, , .		3
83	Influence of Boundary Layer Air Injection on Flashback of Premixed Hydrogen-Air Flames. , 2016, , .		2
84	Flame Holding in the Premixing Zone of a Gas Turbine Model Combustor After Forced Ignition of H2-NG-Air-Mixtures. , 2016, , .		0
85	Application of High-Speed OH-PLIF Technique for Improvement of Lean Hydrogen-Air Combustion Modeling. , 2016, , .		1
86	Massively Parallelized Simulation of Deflagration-to-Detonation Transition in a Konvoi-Type Pressurized Water Reactor. , 2016, , .		2
87	Low-Order Modeling of Nonlinear High-Frequency Transversal Thermoacoustic Oscillations in Gas Turbine Combustors. , 2016, , .		8
88	Operability Limits of Tubular Injectors With Vortex Generators for a Hydrogen Fuelled Recuperated 100kW Class Gas Turbine. , 2016, , .		0
89	Experimental Study of the Interaction of Water Sprays With Swirling Premixed Natural Gas Flames. , 2016, , .		3
90	Numerical Investigation of Slug Flow in a Horizontal Pipe Using a Multi-Scale Two-Phase Approach to Incorporate Gas Entrainment Effects. , 2016, , .		0

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91	Impact of Quarter Wave Tube Arrangement on Damping of Azimuthal Modes. , 2016, , .		3
92	A Model for Predicting the Lift-Off Height of Premixed Jets in Vitiated Cross Flow. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	26
93	Assessment of existing and new modeling strategies for the simulation of OH* radiation in high-temperature flames. CEAS Space Journal, 2016, 8, 47-58.	2.3	23
94	Computation of Combustion Noise from a Premixed and Pressurized Propane Flame Using Statistical Noise Modeling. , 2016, , .		2
95	High-Frequency Thermoacoustic Modulation Mechanisms in Swirl-Stabilized Gas Turbine Combustors: Part Two â€" Modeling and Analysis. , 2016, , .		10
96	Influence of atomization quality modulation on flame dynamics in a hypergolic rocket engine. International Journal of Spray and Combustion Dynamics, 2016, 8, 149-164.	1.0	6
97	The GraVent DDT database. Shock Waves, 2016, 26, 683-685.	1.9	19
98	High-speed OH-PLIF imaging of deflagration-to-detonation transition in H2â€"air mixtures. Experiments in Fluids, 2016, 57, 1.	2.4	8
99	Interaction of Flame Flashback Mechanisms in Premixed Hydrogenâ€"Air Swirl Flames. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	18
100	Reduced-Order Modeling of Aeroacoustic Systems for Stability Analyses of Thermoacoustically Noncompact Gas Turbine Combustors. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	11
101	Measurement and Analysis of Flame Transfer Functions in a Lean-Premixed, Swirl-Stabilized Combustor with Water Injection. , 2016, , .		8
102	Flamelet Generated Manifolds for Partially Premixed, Highly Stretched and Non-Adiabatic Combustion in Gas Turbines. , 2016, , .		6
103	Influence of Preflame and Postflame Mixing on NOx Formation in a Reacting Premixed Jet in Hot Cross Flow. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	14
104	Modeling of the continuous (blue) radiation in hydrogen flames. International Journal of Hydrogen Energy, 2016, 41, 1293-1303.	7.1	10
105	Analysis of Measured Flame Transfer Functions With Locally Resolved Density Fluctuation and OH-Chemiluminescence Data. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	6
106	Radiation-Based Validation of Combustion Simulations and Comparison to Heat Release in Rocket Engines. , 2016, , .		1
107	Detonation propagation in hydrogenâ€"air mixtures with transverse concentration gradients. Shock Waves, 2016, 26, 181-192.	1.9	73
108	A study on the mechanisms triggering the departure from nucleate boiling in subcooled vertical flow boiling using a complementary experimental approach. International Journal of Heat and Mass Transfer, 2016, 92, 403-413.	4.8	24

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109	Large Eddy Simulation of a Reacting Jet in Cross Flow With NOx Prediction. , 2016, , .		1
110	Influence of Pre-Flame and Post-Flame Mixing on NOx-Formation in a Reacting Premixed Jet in Hot Cross Flow. , 2015, , .		1
111	Analysis of Measured Flame Transfer Functions With Locally Resolved Density Fluctuation and OH-Chemiluminescence Data. , 2015, , .		0
112	A Model for Predicting the Lift-Off Height of Premixed Jets in Vitiated Cross Flow. , 2015, , .		2
113	Interaction of Combustion with Transverse Velocity Fluctuations in Liquid Rocket Engines. Journal of Propulsion and Power, 2015, 31, 1137-1147.	2.2	11
114	Validation of Transverse Instability Damping Computations for Rocket Engines. Journal of Propulsion and Power, 2015, 31, 1148-1158.	2.2	6
115	A comparison of time and frequency domain descriptions of high frequency acoustics in rocket engines with focus on dome coupling. Aerospace Science and Technology, 2015, 45, 165-173.	4.8	14
116	Impact of Absorber Ring Position and Cavity Length on Acoustic Damping. Journal of Spacecraft and Rockets, 2015, 52, 917-927.	1.9	11
117	Frequency Domain Predictions of Acoustic Wave Propagation and Losses in a Swirl Burner With Linearized Navier-Stokes Equations. , 2015, , .		4
118	Experimentally Determining the Acoustic Damping Rates of a Combustor With a Swirl Stabilized Lean Premixed Flame. , 2015, , .		3
119	Frequency domain simulations for the determination of liner effects on longitudinal wave propagation. International Journal of Aeroacoustics, 2015, 14, 1025-1047.	1.3	0
120	Influence of Water Injection on Heat Release Distribution, Lean Blowout and Emissions of a Premixed Swirl Flame in a Tubular Combustor. , 2015, , .		7
121	Experimental Investigation of the Transition Mechanism From Stable Flame to Flashback in a Generic Premixed Combustion System With High-Speed Micro-PIV and Micro-PLIF Combined With Chemiluminescence Imaging. , 2015, , .		7
122	Reduced Order Modeling of Aeroacoustic Systems for Stability Analyses of Thermoacoustically Non-Compact Gas Turbine Combustors. , 2015, , .		0
123	Feasibility Study on Dehydrogenation of LOHC Using Excess Exhaust Heat From a Hydrogen Fueled Micro Gas Turbine. , 2015, , .		5
124	Frequency domain simulations for the determination of liner effects on longitudinal wave propagation. International Journal of Aeroacoustics, 2015, 14, 1025-1047.	1.3	0
125	Numerical Investigation of Indirect Noise Generation by Accelerated Vorticity. , 2015, , .		4
126	Influence of water mist on flame acceleration, DDT and detonation in H2-air mixtures. International Journal of Hydrogen Energy, 2015, 40, 6995-7004.	7.1	42

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127	Impact of Injector Mass Flow Fluctuations on Combustion Dynamics in Liquid Engines. Journal of Spacecraft and Rockets, 2015, 52, 1417-1429.	1.9	5
128	Transfer Functions of Acoustic, Entropy and Vorticity Waves in an Annular Model Combustor and Nozzle for the Prediction of the Ratio Between Indirect and Direct Combustion Noise. , 2015, , .		3
129	Eigenvalue Analysis for the Prediction of Initial Growth Rates of Thermoacoustic Instability in Rocket Motors. , 2015, , .		2
130	Heat release and UVâ€“Vis radiation in non-premixed hydrogenâ€“oxygen flames. Experiments in Fluids, 2015, 56, 1.	2.4	21
131	Numerical simulation of deflagration-to-detonation transition in large confined volumes. Journal of Loss Prevention in the Process Industries, 2015, 36, 371-379.	3.3	18
132	Numerical Simulation of the Deflagration-to-Detonation Transition in Inhomogeneous Mixtures. Journal of Combustion, 2014, 2014, 1-15.	1.0	70
133	A Coupled Numerical Model to Predict Heat Transfer and Passenger Thermal Comfort in Vehicle Cabins. , 2014, , .		15
134	Experimental and Numerical Investigation of Confined Jets in Hot Co-Flow. , 2014, , .		1
135	Prediction of the NOx Emissions of a Swirl Burner in Partially and Fully Premixed Mode on the Basis of Water Channel Laser Induced Fluorescence and Particle Image Velocimetry Measurements. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	3
136	Influence of Burner Material, Tip Temperature, and Geometrical Flame Configuration on Flashback Propensity of H2-Air Jet Flames. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	20
137	Experimental and Numerical Investigation of Thermoacoustic Sources Related to High-Frequency Instabilities. International Journal of Spray and Combustion Dynamics, 2014, 6, 1-34.	1.0	36
138	Interaction of Flame Flashback Mechanisms in Premixed Hydrogen-Air Swirl Flames. , 2014, , .		3
139	A Reactor Model for the NOx Formation in a Reacting Jet in Hot Cross Flow Under Atmospheric and High Pressure Conditions. , 2014, , .		4
140	Thermoacoustic Feedback Analysis of a Cylindrical Combustion Chamber under Supercritical Conditions. , 2014, , .		4
141	Acoustic-entropy coupling behavior and acoustic scattering properties of a Laval nozzle. , 2014, , .		3
142	Nonpremixed Counterflow Flames: Scaling Rules for Batch Simulations. Journal of Combustion, 2014, 2014, 1-7.	1.0	19
143	Flame Acceleration in Hydrogen/Air Mixtures with Concentration Gradients. Combustion Science and Technology, 2014, 186, 1650-1661.	2.3	49
144	Application of high-speed digital holographic interferometry for the analysis of temperature distributions and velocity fields in subcooled flow boiling. Experiments in Fluids, 2014, 55, 1.	2.4	11

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145	Effects of turbulence and secondary flows on subcooled flow boiling. Heat and Mass Transfer, 2014, 50, 427-435.	2.1	13
146	Impact of turbulence on the prediction of linear aeroacoustic interactions: Acoustic response of a turbulent shear layer. Journal of Sound and Vibration, 2014, 333, 6548-6559.	3.9	49
147	Development of a Seawater-proof Hybrid Photovoltaic/thermal (PV/T) Solar Collector. Energy Procedia, 2014, 52, 93-103.	1.8	27
148	Influence of Fuel-Air Mixing on Flame Dynamics of Premixed Swirl Burners. , 2014, , .		6
149	NOx Formation in a Reacting Premixed Jet in Hot Cross Flow. , 2014, , .		19
150	Mach reflection in detonations propagating through a gas with a concentration gradient. Shock Waves, 2013, 23, 201-206.	1.9	37
151	A phenomenological study on effects leading to the departure from nucleate boiling in subcooled flow boiling. International Journal of Heat and Mass Transfer, 2013, 67, 61-69.	4.8	20
152	Design for Thermo-Acoustic Stability: Procedure and Database. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	7
153	Influence of Burner Material, Tip Temperature and Geometrical Flame Configuration on Flashback Propensity of H2-Air Jet Flames. , 2013, , .		1
154	Numerical Investigation of the Plane-Wave Reflection Coefficient of an Exhaust Pipe at Elevated Temperatures Using Linearized Navier-Stokes Equations. , 2013, , .		3
155	Design for Thermo-Acoustic Stability: Modeling of Burner and Flame Dynamics. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	7
156	Impact of Cooling Air Injection on the Combustion Stability of a Premixed Swirl Burner Near Lean Blowout. , 2013, , .		1
157	Prediction of the NOx-Emissions of a Swirl Burner in Partially and Fully Premixed Mode on the Basis of Water Channel LIF and PIV Measurements. , 2013, , .		0
158	Prediction of the Acoustic Losses of a Swirl Atomizer Nozzle Under Non-Reactive Conditions. , 2013, , .		12
159	High-Frequency Instabilities in Cylindrical Flame Tubes: Feedback Mechanism and Damping. , 2013, , .		15
160	Design for Thermo-Acoustic Stability: Modeling of Burner and Flame Dynamics. , 2013, , .		1
161	Heat Release and OH* Radiation in Laminar Non-Premixed Hydrogen-Oxygen Flames. , 2013, , .		4
162	Quantitative Stability Analysis Using Real-Valued Frequency Response Data. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	16

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163	A Conceptional Approach for the Prediction of Thermoacoustic Stability in Rocket Engines. , 2013, , .		10
164	On the Use of OH* Radiation as a Marker for the Heat Release Rate in High-Pressure Hydrogen Liquid Rocket Combustion. , 2013, , .		8
165	Impact of Cooling Air Injection on the Combustion Stability of a Premixed Swirl Burner Near Lean Blowout. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	6
166	Experimental Investigation on the Effect of Boundary Layer Fluid Injection on the Flashback Propensity of Premixed Hydrogen-Air Flames. , 2013, , .		9
167	Influence of the Inflow Confinement on the Flashback Limits of a Premixed Swirl Burner. , 2013, , .		2
168	Experimental Investigation of OH* and CH* Chemiluminescence Under Varying Operating Conditions. , 2013, , .		3
169	Ignition and Flame Stabilization of a Premixed Jet in Hot Cross Flow. , 2013, , .		12
170	Comparison of the Accuracy of Time-Domain Measurement Methods for Combustor Damping. , 2013, , .		4
171	Experimental Investigation of the Flashback Limits and Flame Propagation Mechanisms for Premixed Hydrogen-Air Flames in Non-Swirling and Swirling Flow. , 2013, , .		16
172	The Effect of Cooling Air on the Air Fuel Distribution of a Silo Combustor. , 2013, , .		1
173	Industrial Combustors. , 2013, , 290-362.		2
174	Design for Thermo-Acoustic Stability: Procedure and Data Base. , 2013, , .		2
175	Quantitative Stability Analysis Using Real-Valued Frequency Response Data. , 2013, , .		1
176	Validation of mechanistic CHF models using optical measuring techniques. Kerntechnik, 2013, 78, 57-59.	0.2	1
177	Impact of Cooling Air Injection on the Primary Combustion Zone of a Swirl Burner. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	5
178	Interaction of Acoustic Pressure Fluctuations with Supercritical Nitrogen Jets. , 2012, , .		3
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