

Thomas Sattelmayer

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Influence of the Combustor Aerodynamics on Combustion Instabilities From Equivalence Ratio Fluctuations. <i>Journal of Engineering for Gas Turbines and Power</i> , 2003, 125, 11-19. | 1.1 | 176 |
| 2 | Burner Development and Operability Issues Associated with Steady Flowing Syngas Fired Combustors. <i>Combustion Science and Technology</i> , 2008, 180, 1169-1192. | 2.3 | 154 |
| 3 | Flashback in a Swirl Burner With Cylindrical Premixing Zone. <i>Journal of Engineering for Gas Turbines and Power</i> , 2004, 126, 276-283. | 1.1 | 125 |
| 4 | Simultaneous high repetition rate PIV-LIF-measurements of CIVB driven flashback. <i>Experiments in Fluids</i> , 2008, 44, 529-538. | 2.4 | 107 |
| 5 | On the Adequacy of Chemiluminescence as a Measure for Heat Release in Turbulent Flames With Mixture Gradients. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010, 132, . | 1.1 | 103 |
| 6 | Flashback Limits for Combustion Induced Vortex Breakdown in a Swirl Burner. <i>Journal of Engineering for Gas Turbines and Power</i> , 2003, 125, 693-700. | 1.1 | 96 |
| 7 | Assessment of methods for the computation of the linear stability of combustors. <i>Combustion Science and Technology</i> , 2003, 175, 453-476. | 2.3 | 82 |
| 8 | Experimental Study on the Role of Entropy Waves in Low-Frequency Oscillations in a RQL Combustor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2006, 128, 264-270. | 1.1 | 81 |
| 9 | Influence of temperature inhomogeneities on knocking combustion. <i>Combustion and Flame</i> , 2008, 153, 562-573. | 5.2 | 78 |
| 10 | Comparison of the Flow Field of a Swirl Stabilized Premixed Burner in an Annular and a Single Burner Combustion Chamber. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010, 132, . | 1.1 | 78 |
| 11 | Time Domain Simulation of Combustion Instabilities in Annular Combustors. <i>Journal of Engineering for Gas Turbines and Power</i> , 2003, 125, 677-685. | 1.1 | 76 |
| 12 | Experimental analysis of flashback in lean premixed swirling flames: upstream flame propagation. <i>Experiments in Fluids</i> , 2010, 49, 853-863. | 2.4 | 76 |
| 13 | Detonation propagation in hydrogen-air mixtures with transverse concentration gradients. <i>Shock Waves</i> , 2016, 26, 181-192. | 1.9 | 73 |
| 14 | Analysis of Combustion Induced Vortex Breakdown Driven Flame Flashback in a Premix Burner With Cylindrical Mixing Zone. <i>Journal of Engineering for Gas Turbines and Power</i> , 2007, 129, 929-936. | 1.1 | 72 |
| 15 | Premixed flame flashback in wall boundary layers studied by long-distance micro-PIV. <i>Experiments in Fluids</i> , 2012, 52, 347-360. | 2.4 | 71 |
| 16 | Numerical Simulation of the Deflagration-to-Detonation Transition in Inhomogeneous Mixtures. <i>Journal of Combustion</i> , 2014, 2014, 1-15. | 1.0 | 70 |
| 17 | Deflagration-to-Detonation Transition in Hydrogen/Air Mixtures with a Concentration Gradient. <i>Combustion Science and Technology</i> , 2012, 184, 1903-1915. | 2.3 | 63 |
| 18 | A spectral model for the sound pressure from turbulent premixed combustion. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 1435-1441. | 3.9 | 62 |

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| 19 | Two-dimensional temperature measurements in a technical combustor with laser Rayleigh scattering. Applied Optics, 1993, 32, 6167. | 2.1 | 54 |
| 20 | Determination of the Heat Release Distribution in Turbulent Flames by a Model Based Correction of OH* Chemiluminescence. Journal of Engineering for Gas Turbines and Power, 2011, 133, . | 1.1 | 53 |
| 21 | Flame Acceleration in Hydrogen/Air Mixtures with Concentration Gradients. Combustion Science and Technology, 2014, 186, 1650-1661. | 2.3 | 49 |
| 22 | 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 |
| 23 | Study of the bubble characteristics and the local void fraction in subcooled flow boiling using digital imaging and analysing techniques. Experimental Thermal and Fluid Science, 2002, 26, 147-155. | 2.7 | 48 |
| 24 | Experimental Investigation of Turbulent Boundary Layer Flashback Limits for Premixed Hydrogen-Air Flames Confined in Ducts. Journal of Engineering for Gas Turbines and Power, 2012, 134, . | 1.1 | 48 |
| 25 | Second-Generation Low-Emission Combustors for ABB Gas Turbines: Burner Development and Tests at Atmospheric Pressure. Journal of Engineering for Gas Turbines and Power, 1992, 114, 118-125. | 1.1 | 46 |
| 26 | Influence of the Swirler Design on the Flame Transfer Function of Premixed Flames. , 2005, , 151. | | 45 |
| 27 | FLAME PROPAGATION IN SWIRLING FLOWSâ€”EFFECT OF LOCAL EXTINCTION ON THE COMBUSTION INDUCED VORTEX BREAKDOWN. Combustion Science and Technology, 2007, 179, 1385-1416. | 2.3 | 45 |
| 28 | Theoretical studies of high-temperature multilayer thermal insulations using radiation scaling. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 84, 477-491. | 2.3 | 44 |
| 29 | Influence of Transversal Acoustic Excitation of the Burner Approach Flow on the Flame Structure. Journal of Engineering for Gas Turbines and Power, 2011, 133, . | 1.1 | 42 |
| 30 | 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 |
| 31 | Spatial Coherence of the Heat Release Fluctuations in Turbulent Jet and Swirl Flames. Flow, Turbulence and Combustion, 2005, 75, 29-50. | 2.6 | 39 |
| 32 | Low-Order Modeling of Low-Frequency Combustion Instabilities in AeroEngines. Journal of Propulsion and Power, 2006, 22, 425-432. | 2.2 | 39 |
| 33 | Interaction of heat release and vortex breakdown during flame flashback driven by combustion induced vortex breakdown. Experiments in Fluids, 2009, 47, 627-635. | 2.4 | 39 |
| 34 | Critical Heat Flux in Flow Boilingâ€”Review of the Current Understanding and Experimental Approaches. Heat Transfer Engineering, 2017, 38, 347-360. | 1.9 | 39 |
| 35 | A novel method for the computation of the linear stability of combustors. Combustion Science and Technology, 2003, 175, 477-497. | 2.3 | 38 |
| 36 | Mach reflection in detonations propagating through a gas with a concentration gradient. Shock Waves, 2013, 23, 201-206. | 1.9 | 37 |

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| 37 | Experimental and Numerical Investigation of Thermoacoustic Sources Related to High-Frequency Instabilities. <i>International Journal of Spray and Combustion Dynamics</i> , 2014, 6, 1-34. | 1.0 | 36 |
| 38 | Experiments on Flame Flashback in a Quasi-2D Turbulent Wall Boundary Layer for Premixed Methane-Hydrogen-Air Mixtures. <i>Journal of Engineering for Gas Turbines and Power</i> , 2011, 133, . | 1.1 | 35 |
| 39 | Study on the Operational Window of a Swirl Stabilized Syngas Burner Under Atmospheric and High Pressure Conditions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012, 134, . | 1.1 | 35 |
| 40 | NOx-Abatement Potential of Lean-Premixed GT Combustors. <i>Journal of Engineering for Gas Turbines and Power</i> , 1998, 120, 48-59. | 1.1 | 34 |
| 41 | Simulation of Combustion Instabilities in Liquid Rocket Engines with Acoustic Perturbation Equations. <i>Journal of Propulsion and Power</i> , 2009, 25, 1020-1031. | 2.2 | 33 |
| 42 | Dynamic Adaptation of Aerodynamic Flame Stabilization of a Premix Swirl Burner to Fuel Reactivity Using Fuel Momentum. <i>Journal of Engineering for Gas Turbines and Power</i> , 2011, 133, . | 1.1 | 33 |
| 43 | Forced Low-Frequency Spray Characteristics of a Generic Airblast Swirl Diffusion Burner. <i>Journal of Engineering for Gas Turbines and Power</i> , 2005, 127, 301-306. | 1.1 | 32 |
| 44 | Automated high-speed video analysis of the bubble dynamics in subcooled flow boiling. <i>International Journal of Heat and Fluid Flow</i> , 2004, 25, 149-158. | 2.4 | 29 |
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| 46 | Numerical Investigation of Reacting Flow in a Methane Rocket Combustor: Turbulence Modeling. <i>Journal of Propulsion and Power</i> , 2018, 34, 864-877. | 2.2 | 28 |
| 47 | Thermoacoustic Stability Analysis of an Annular Combustion Chamber With Acoustic Low Order Modeling and Validation Against Experiment. , 2005, , 583. | | 27 |
| 48 | Development of a Seawater-proof Hybrid Photovoltaic/thermal (PV/T) Solar Collector. <i>Energy Procedia</i> , 2014, 52, 93-103. | 1.8 | 27 |
| 49 | Hydrogen storage using liquid organic carriers: Equilibrium simulation and dehydrogenation reactor design. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 24902-24916. | 7.1 | 27 |
| 50 | Comparison of multi-microphone transfer matrix measurements with acoustic network models of swirl burners. <i>Journal of Sound and Vibration</i> , 2006, 298, 73-83. | 3.9 | 26 |
| 51 | A Model for Predicting the Lift-Off Height of Premixed Jets in Vitiated Cross Flow. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, . | 1.1 | 26 |
| 52 | A study on the mechanisms triggering the departure from nucleate boiling in subcooled vertical flow boiling using a complementary experimental approach. <i>International Journal of Heat and Mass Transfer</i> , 2016, 92, 403-413. | 4.8 | 24 |
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| 55 | Ignition and combustion characteristics of diesel piloted ammonia injections. Fuel Communications, 2022, 11, 100068. | 5.2 | 23 |
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| 57 | Influence of the Combustor Aerodynamics on Combustion Instabilities From Equivalence Ratio Fluctuations. , 2000, , . | | 22 |
| 58 | Two-Dimensional Flashback Simulation in Strongly Swirling Flows. , 2003, , 293. | | 21 |
| 59 | The Effect of Water Addition on HCCI Diesel Combustion. , 0, , . | | 21 |
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| 61 | Prediction of Confined Flame Flashback Limits Using Boundary Layer Separation Theory. Journal of Engineering for Gas Turbines and Power, 2017, 139, . | 1.1 | 21 |
| 62 | Flashback in a Swirl Burner With Cylindrical Premixing Zone. , 2001, , . | | 20 |
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| 65 | Optimization of the Aerodynamic Flame Stabilization for Fuel Flexible Gas Turbine Premix Burners. Journal of Engineering for Gas Turbines and Power, 2011, 133, . | 1.1 | 20 |
| 66 | 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 |
| 67 | Influence of Burner Material, Tip Temperature, and Geometrical Flame Configuration on Flashback Propensity of H ₂ -Air Jet Flames. Journal of Engineering for Gas Turbines and Power, 2014, 136, . | 1.1 | 20 |
| 68 | Linear stability assessment of a cryogenic rocket engine. International Journal of Spray and Combustion Dynamics, 2017, 9, 277-298. | 1.0 | 20 |
| 69 | Time Scale Model for the Prediction of the Onset of Flame Flashback Driven by Combustion Induced Vortex Breakdown. Journal of Engineering for Gas Turbines and Power, 2010, 132, . | 1.1 | 19 |
| 70 | Large-Eddy Simulation and Experimental Observation of Combustion-Induced Vortex Breakdown. Combustion Science and Technology, 2010, 182, 505-516. | 2.3 | 19 |
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| 72 | NO _x Formation in a Reacting Premixed Jet in Hot Cross Flow. , 2014, , . | | 19 |

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| 80 | 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 |
| 81 | Interaction of Flame Flashback Mechanisms in Premixed Hydrogenâ€”Air Swirl Flames. Journal of Engineering for Gas Turbines and Power, 2016, 138, . | 1.1 | 18 |
| 82 | Comparison Between Excited Hydroxyl Radical and Blue Radiation from Hydrogen Rocket Combustion. Journal of Propulsion and Power, 2017, 33, 490-500. | 2.2 | 18 |
| 83 | Instability of a Premix Burner With Nonmonotonic Pressure Drop Characteristic. Journal of Engineering for Gas Turbines and Power, 2003, 125, 20-27. | 1.1 | 17 |
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| 88 | Experimental Investigation of the Flashback Limits and Flame Propagation Mechanisms for Premixed Hydrogen-Air Flames in Non-Swirling and Swirling Flow. , 2013, , . | | 16 |
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| 92 | Development of a 3rd Generation SCR NH ₃ -Direct Dosing System for Highly Efficient DeNOx. SAE International Journal of Engines, 0, 5, 938-946. | 0.4 | 15 |
| 93 | A Model for the Thermo-Acoustic Feedback of Transverse Acoustic Modes and Periodic Oscillations in Flame Position in Cylindrical Flame Tubes. , 2012, , . | | 15 |
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| 98 | Multi-Effect Vacuum Membrane Distillation systems: Model derivation and calibration. Desalination, 2018, 438, 97-111. | 8.2 | 15 |
| 99 | 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 |
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| 101 | Pressure Influence on the Flame Transfer Function of a Premixed Swirling Flame. , 2006, , 477. | | 14 |
| 102 | Lean Blowout Limit and NOx Production of a Premixed Sub-ppm NOx Burner With Periodic Recirculation of Combustion Products. Journal of Engineering for Gas Turbines and Power, 2006, 128, 247-254. | 1.1 | 14 |
| 103 | Influence of Transversal Acoustic Excitation of the Burner Approach Flow on the Flame Structure. , 2010, , . | | 14 |
| 104 | Determination of the Heat Release Distribution in Turbulent Flames by a Model Based Correction of OH* Chemiluminescence. , 2011, , . | | 14 |
| 105 | Interaction of Vortex Shedding and Transverse High-Frequency Pressure Oscillations in a Tubular Combustion Chamber. , 2011, , . | | 14 |
| 106 | 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 |
| 107 | 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 |
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| 109 | Numerical Investigation of Pressure Influence on the Confined Turbulent Boundary Layer Flashback Process. <i>Fluids</i> , 2019, 4, 146. | 1.7 | 14 |
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| 111 | Flame Transfer Matrices of a Premixed Flame and a Global Check With Modelling and Experiments. , 2008, , . | | 13 |
| 112 | Effects of turbulence and secondary flows on subcooled flow boiling. <i>Heat and Mass Transfer</i> , 2014, 50, 427-435. | 2.1 | 13 |
| 113 | Influence of Injection Parameters and Operating Conditions on Ignition and Combustion in Dual-Fuel Engines. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, . | 1.1 | 13 |
| 114 | Prediction of the Acoustic Losses of a Swirl Atomizer Nozzle Under Non-Reactive Conditions. , 2013, , . | | 12 |
| 115 | Ignition and Flame Stabilization of a Premixed Jet in Hot Cross Flow. , 2013, , . | | 12 |
| 116 | Hybrid RANS/LES of a supersonic combustor. <i>Aerospace Science and Technology</i> , 2017, 69, 563-573. | 4.8 | 12 |
| 117 | Analytic prediction of unconfined boundary layer flashback limits in premixed hydrogen-air flames. <i>Combustion Theory and Modelling</i> , 2017, 21, 382-418. | 1.9 | 12 |
| 118 | Low NOx Premixed Combustion of MBtu Fuels in a Research Burner. <i>Journal of Engineering for Gas Turbines and Power</i> , 1997, 119, 553-558. | 1.1 | 11 |
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| 120 | Effects of the Mean Flow Field on the Thermo-Acoustic Stability of Aero-Engine Combustion Chambers. , 2012, , . | | 11 |
| 121 | Application of high-speed digital holographic interferometry for the analysis of temperature distributions and velocity fields in subcooled flow boiling. <i>Experiments in Fluids</i> , 2014, 55, 1. | 2.4 | 11 |
| 122 | Interaction of Combustion with Transverse Velocity Fluctuations in Liquid Rocket Engines. <i>Journal of Propulsion and Power</i> , 2015, 31, 1137-1147. | 2.2 | 11 |
| 123 | Impact of Absorber Ring Position and Cavity Length on Acoustic Damping. <i>Journal of Spacecraft and Rockets</i> , 2015, 52, 917-927. | 1.9 | 11 |
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| 125 | Pulsation-Amplitude-Dependent Flame Dynamics of High-Frequency Thermoacoustic Oscillations in Lean-Premixed Gas Turbine Combustors. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, . | 1.1 | 11 |
| 126 | Large Eddy simulation of confined turbulent boundary layer flashback of premixed hydrogen-air flames. <i>International Journal of Heat and Fluid Flow</i> , 2018, 72, 151-160. | 2.4 | 11 |

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| 127 | 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 |
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| 129 | A Conceptual Approach for the Prediction of Thermoacoustic Stability in Rocket Engines. , 2013, , . | | 10 |
| 130 | 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 |
| 131 | High-Frequency Thermoacoustic Modulation Mechanisms in Swirl-Stabilized Gas Turbine Combustors: Part Two " Modeling and Analysis. , 2016, , . | | 10 |
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| 137 | Experimental Investigation on the Effect of Boundary Layer Fluid Injection on the Flashback Propensity of Premixed Hydrogen-Air Flames. , 2013, , . | | 9 |
| 138 | High Frequency Thermoacoustic Modulation Mechanisms in Swirl-Stabilized Gas Turbine Combustors: Part One " Experimental Investigation of Local Flame Response. , 2016, , . | | 9 |
| 139 | Large-Eddy Simulation of a Reacting Jet in Cross Flow With NO _x Prediction. Journal of Engineering for Gas Turbines and Power, 2017, 139, . | 1.1 | 9 |
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| 145 | Low-Order Modeling of Nonlinear High-Frequency Transversal Thermoacoustic Oscillations in Gas Turbine Combustors. , 2016, , . | | 8 |
| 146 | High-speed OH-PLIF imaging of deflagration-to-detonation transition in H ₂ -air mixtures. Experiments in Fluids, 2016, 57, 1. | 2.4 | 8 |
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| 151 | Experiments on Flame Flashback in a Quasi-2D Turbulent Wall Boundary Layer for Premixed Methane-Hydrogen-Air Mixtures. , 2010, , . | | 7 |
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