

Wolfgang Polifke

List of Publications by Year in descending order

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times ranked

1460
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Swirl Fluctuations on the Flame Response of a Perfectly Premixed Swirl Burner. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	196
2	An Efficient Computational Model for Premixed Turbulent Combustion at High Reynolds Numbers Based on a Turbulent Flame Speed Closure. Journal of Engineering for Gas Turbines and Power, 1998, 120, 526-532.	1.1	170
3	Measurement of Transfer Matrices and Source Terms of Premixed Flames. Journal of Engineering for Gas Turbines and Power, 2002, 124, 239-247.	1.1	160
4	RECONSTRUCTION OF ACOUSTIC TRANSFER MATRICES BY INSTATIONARY COMPUTATIONAL FLUID DYNAMICS. Journal of Sound and Vibration, 2001, 245, 483-510.	3.9	155
5	An Efficient Computational Model for Premixed Turbulent Combustion at High Reynolds Numbers Based on a Turbulent Flame Speed Closure. , 1997, , .		114
6	On the low-frequency limit of flame transfer functions. Combustion and Flame, 2007, 151, 437-451.	5.2	100
7	Partially reflecting and non-reflecting boundary conditions for simulation of compressible viscous flow. Journal of Computational Physics, 2006, 213, 437-449.	3.8	94
8	Structure of locally quenched highly turbulent lean premixed flames. Proceedings of the Combustion Institute, 1998, 27, 857-865.	0.3	93
9	Black-box system identification for reduced order model construction. Annals of Nuclear Energy, 2014, 67, 109-128.	1.8	92
10	Intrinsic thermoacoustic instability of premixed flames. Combustion and Flame, 2015, 162, 75-85.	5.2	91
11	Optimization of Rate Coefficients for Simplified Reaction Mechanisms with Genetic Algorithms. Combustion and Flame, 1998, 113, 119-134.	5.2	85
12	Assessment of methods for the computation of the linear stability of combustors. Combustion Science and Technology, 2003, 175, 453-476.	2.3	82
13	Comparative Validation Study on Identification of Premixed Flame Transfer Function. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	75
14	Numerical study on intrinsic thermoacoustic instability of a laminar premixed flame. Combustion and Flame, 2015, 162, 3370-3378.	5.2	68
15	Propagation and generation of acoustic and entropy waves across a moving flame front. Combustion and Flame, 2016, 166, 170-180.	5.2	66
16	Constructive and Destructive Interference of Acoustic and Entropy Waves in a Premixed Combustor with a Choked Exit. International Journal of Acoustics and Vibrations, 2001, 6, .	0.3	65
17	Thermal versus acoustic response of velocity sensitive premixed flames. Proceedings of the Combustion Institute, 2015, 35, 3185-3192.	3.9	63
18	Dynamics of Practical Premixed Flames, Part I: Model Structure and Identification. International Journal of Spray and Combustion Dynamics, 2009, 1, 199-228.	1.0	58

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19	The contribution of intrinsic thermoacoustic feedback to combustion noise and resonances of a confined turbulent premixed flame. <i>Combustion and Flame</i> , 2017, 182, 269-278.	5.2	58
20	Acoustic and intrinsic thermoacoustic modes of a premixed combustor. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3835-3842.	3.9	56
21	CFD-based application of the Nyquist criterion to thermo-acoustic instabilities. <i>Journal of Computational Physics</i> , 2008, 227, 6754-6778.	3.8	55
22	Novel perspectives on the dynamics of premixed flames. <i>Combustion and Flame</i> , 2013, 160, 1215-1224.	5.2	55
23	Linear State Space Interconnect Modeling of Acoustic Systems. <i>Acta Acustica United With Acustica</i> , 2016, 102, 824-833.	0.8	52
24	Modeling and analysis of premixed flame dynamics by means of distributed time delays. <i>Progress in Energy and Combustion Science</i> , 2020, 79, 100845.	31.2	51
25	Dynamics of Practical Premixed Flames, Part II: Identification and Interpretation of CFD Data. <i>International Journal of Spray and Combustion Dynamics</i> , 2009, 1, 229-249.	1.0	48
26	Influence of the Swirler Design on the Flame Transfer Function of Premixed Flames. , 2005, , 151.		45
27	Identification of the aeroacoustic response of a low Mach number flow through a T-joint. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 582-586.	1.1	45
28	Cryo-adsorptive hydrogen storage on activated carbon. I: Thermodynamic analysis of adsorption vessels and comparison with liquid and compressed gas hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 638-647.	7.1	45
29	The dynamics of helical decaying turbulence. <i>Physics of Fluids A, Fluid Dynamics</i> , 1989, 1, 2025-2033.	1.6	44
30	Modeling Transfer Matrices of Premixed Flames and Comparison With Experimental Results. , 1999, , .		43
31	A MODEL FOR THE THERMOACOUSTIC RESPONSE OF A PREMIXED SWIRL BURNER, PART II: THE FLAME RESPONSE. <i>Combustion Science and Technology</i> , 2004, 176, 1359-1390.	2.3	43
32	LES of Delft-Jet-In-Hot-Coflow (DJHC) with tabulated chemistry and stochastic fields combustion model. <i>Fuel Processing Technology</i> , 2013, 107, 138-146.	7.2	43
33	Low-Order Acoustic Modelling for Annular Combustors: Validation and Inclusion of Modal Coupling. , 2002, , 321.		42
34	Modeling of Inhomogeneously Premixed Combustion With an Extended TFC Model. <i>Journal of Engineering for Gas Turbines and Power</i> , 2002, 124, 58-65.	1.1	39
35	A novel method for the computation of the linear stability of combustors. <i>Combustion Science and Technology</i> , 2003, 175, 477-497.	2.3	38
36	Validation of Flame Transfer Function Reconstruction for Perfectly Premixed Swirl Flames. , 2004, , 501.		38

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37	Combined Influence of Strain and Heat Loss on Turbulent Premixed Flame Stabilization. Flow, Turbulence and Combustion, 2016, 97, 263-294.	2.6	38
38	Inclusion of higher harmonics in the flame describing function for predicting limit cycles of self-excited combustion instabilities. Proceedings of the Combustion Institute, 2019, 37, 5255-5262.	3.9	37
39	Cryo-adsorptive hydrogen storage on activated carbon. II: Investigation of the thermal effects during filling at cryogenic temperatures. International Journal of Hydrogen Energy, 2010, 35, 648-659.	7.1	36
40	Assessing non-normal effects in thermoacoustic systems with mean flow. Physics of Fluids, 2011, 23, .	4.0	36
41	Large Eddy Simulation-Based Study of the Influence of Thermal Boundary Condition and Combustor Confinement on Premix Flame Transfer Functions. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	36
42	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
43	Hybrid CFD/low-order modeling of nonlinear thermoacoustic oscillations. Proceedings of the Combustion Institute, 2017, 36, 3827-3834.	3.9	36
44	Identification of aero-acoustic scattering matrices from large eddy simulation. Application to a sudden area expansion of a duct. Journal of Sound and Vibration, 2012, 331, 3096-3113.	3.9	35
45	NOx-Abatement Potential of Lean-Premixed GT Combustors. Journal of Engineering for Gas Turbines and Power, 1998, 120, 48-59.	1.1	34
46	Implementation of the Thickened Flame Model for Large Eddy Simulation of Turbulent Premixed Combustion in a Commercial Solver. , 2007, , 869.		34
47	Uncertainty Quantification of Growth Rates of Thermoacoustic Instability by an Adjoint Helmholtz Solver. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	34
48	On the mechanism of the reduction of nonlinearity in the incompressible Navier-Stokes equation. Physics of Fluids A, Fluid Dynamics, 1989, 1, 778-780.	1.6	33
49	Investigation of the Thermoacoustic Characteristics of a Lean Premixed Gas Turbine Burner. , 1998, , .		32
50	Comments on solid state hydrogen storage systems design for fuel cell vehicles. International Journal of Hydrogen Energy, 2009, 34, 6265-6270.	7.1	32
51	Prediction of combustion noise of an enclosed flame by simultaneous identification of noise source and flame dynamics. Proceedings of the Combustion Institute, 2019, 37, 5263-5270.	3.9	31
52	Nonlinear identification of unsteady heat transfer of a cylinder in pulsating cross flow. Computers and Fluids, 2012, 53, 1-14.	2.5	30
53	Spinning and Azimuthally Standing Acoustic Modes in Annular Combustors. , 2003, , .		28
54	Thermoacoustic Stability Analysis of an Annular Combustion Chamber With Acoustic Low Order Modeling and Validation Against Experiment. , 2005, , 583.		27

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55	Uncertainty quantification and sensitivity analysis of thermoacoustic stability with non-intrusive polynomial chaos expansion. <i>Combustion and Flame</i> , 2018, 189, 300-310.	5.2	27
56	Physics-informed echo state networks. <i>Journal of Computational Science</i> , 2020, 47, 101237.	2.9	27
57	A MODEL FOR THE THERMOACOUSTIC RESPONSE OF A PREMIXED SWIRL BURNER, PART I: ACOUSTIC ASPECTS. <i>Combustion Science and Technology</i> , 2004, 176, 1331-1358.	2.3	26
58	Identification of Flame Transfer Functions From LES of a Premixed Swirl Burner. , 2010, , .		26
59	Identification of heat transfer dynamics for non-modal analysis of thermoacoustic stability. <i>Applied Mathematics and Computation</i> , 2011, 217, 5134-5150.	2.2	26
60	Concurrent identification of aero-acoustic scattering and noise sources at a flow duct singularity in low Mach number flow. <i>Journal of Sound and Vibration</i> , 2016, 377, 90-105.	3.9	26
61	Convective Scaling of Intrinsic Thermo-Acoustic Eigenfrequencies of a Premixed Swirl Combustor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	1.1	25
62	Intrinsic thermoacoustic feedback loop in turbulent spray flames. <i>Combustion and Flame</i> , 2019, 205, 22-32.	5.2	25
63	A Nonlinear Frequency Domain Model for Limit Cycles in Thermoacoustic Systems with Modal Coupling. <i>International Journal of Spray and Combustion Dynamics</i> , 2011, 3, 303-330.	1.0	24
64	Identification of aero-acoustic scattering matrices from large eddy simulation: Application to whistling orifices in duct. <i>Journal of Sound and Vibration</i> , 2013, 332, 5059-5067.	3.9	24
65	Comparison of Machine Learning Algorithms in the Interpolation and Extrapolation of Flame Describing Functions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	1.1	23
66	Low-Nox Premixed Combustion of MBtu Fuels Using the ABB Double Cone Burner (EV Burner). <i>Journal of Engineering for Gas Turbines and Power</i> , 1996, 118, 46-53.	1.1	22
67	On the robust, flexible and consistent implementation of time domain impedance boundary conditions for compressible flow simulations. <i>Journal of Computational Physics</i> , 2016, 314, 145-159.	3.8	22
68	Aeroacoustic Characterization of T-Junctions Based on Large Eddy Simulation and System Identification. , 2010, , .		21
69	Nonlinear, Proper-Orthogonal-Decomposition-Based Model of Forced Convection Heat Transfer in Pulsating Flow. <i>AIAA Journal</i> , 2014, 52, 131-145.	2.6	21
70	Thermoacoustic analysis of a laminar premixed flame using a linearized reactive flow solver. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 5307-5314.	3.9	20
71	Consequences of flame geometry for the acoustic response of premixed flames. <i>Combustion and Flame</i> , 2019, 199, 411-428.	5.2	20
72	Impact of the fuel time lag distribution in elliptical premix nozzles on combustion stability. , 2001, , .		19

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73	Performance analysis and optimization of direct contact condensation in a PCM fixed bed regenerator. <i>Desalination</i> , 2011, 280, 232-243.	8.2	19
74	Impact of acoustic pressure on autoignition and heat release. <i>Combustion Theory and Modelling</i> , 2014, 18, 1-31.	1.9	19
75	Physics-Informed Echo State Networks for Chaotic Systems Forecasting. <i>Lecture Notes in Computer Science</i> , 2019, , 192-198.	1.3	19
76	Control of intrinsic thermoacoustic instabilities using hydrogen fuel. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6077-6084.	3.9	19
77	Low NOx Premixed Combustion of MBTU Fuels Using the ABB Double Cone Burner (EV Burner). , 1994, , .		18
78	A NOx Prediction Scheme for Lean-Premixed Gas Turbine Combustion Based on Detailed Chemical Kinetics. <i>Journal of Engineering for Gas Turbines and Power</i> , 1996, 118, 765-772.	1.1	18
79	Acoustic Transfer Matrix Reconstruction and Analysis for Ducts with Sudden Change of Area. , 2003, , .		18
80	Tecnoeconomic Analysis of Medium and Large-scale Desalination Plants Driven by Concentrated Solar Systems in the Mena Region. <i>Energy Procedia</i> , 2013, 42, 735-744.	1.8	18
81	Distributed time lag response functions for the modelling of combustion dynamics. <i>Combustion Theory and Modelling</i> , 2015, 19, 223-237.	1.9	18
82	On the spurious entropy generation encountered in hybrid linear thermoacoustic models. <i>Combustion and Flame</i> , 2021, 223, 525-540.	5.2	18
83	Instability of a Premix Burner With Nonmonotonic Pressure Drop Characteristic. <i>Journal of Engineering for Gas Turbines and Power</i> , 2003, 125, 20-27.	1.1	17
84	Uncertainty encountered when modelling self-excited thermoacoustic oscillations with artificial neural networks. <i>International Journal of Spray and Combustion Dynamics</i> , 2017, 9, 367-379.	1.0	17
85	Measurement and Simulation of Combustion Noise and Dynamics of a Confined Swirl Flame. <i>AIAA Journal</i> , 2018, 56, 1930-1942.	2.6	17
86	Intrinsic thermoacoustic modes and their interplay with acoustic modes in a Rijke burner. <i>International Journal of Spray and Combustion Dynamics</i> , 2018, 10, 315-325.	1.0	17
87	A Time-Domain Impedance Boundary Condition for Compressible Turbulent Flow. , 2008, , .		16
88	A Discrete-Time, State-Space Approach for the Investigation of Non-Normal Effects in Thermoacoustic Systems. <i>International Journal of Spray and Combustion Dynamics</i> , 2011, 3, 331-350.	1.0	16
89	Quantitative Stability Analysis Using Real-Valued Frequency Response Data. <i>Journal of Engineering for Gas Turbines and Power</i> , 2013, 135, .	1.1	16
90	Large Eddy Simulation of Flame Response to Transverse Acoustic Excitation in a Model Reheat Combustor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2013, 135, .	1.1	16

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91	Short- and long-term predictions of chaotic flows and extreme events: a physics-constrained reservoir computing approach. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20210135.	2.1	16
92	LES based investigation of autoignition in turbulent co-flow configurations. Combustion Theory and Modelling, 2013, 17, 224-259.	1.9	15
93	Application of the Time-Domain Impedance Boundary Condition to Large-Eddy Simulation of Combustion Instability in a Shear-Coaxial High Pressure Combustor. Flow, Turbulence and Combustion, 2017, 99, 185-207.	2.6	15
94	Order and Realisability of Impulse Response Filters for Accurate Identification of Acoustical Multi-ports from Transient CFD. International Journal of Acoustics and Vibrations, 2004, 9, .	0.3	15
95	Impact of Fuel Supply Impedance on Combustion Stability of Gas Turbines. , 2008, , .		14
96	Identification of flame transfer functions in the presence of intrinsic thermoacoustic feedback and noise. Combustion Theory and Modelling, 2018, 22, 613-634.	1.9	14
97	Modelling the generation of temperature inhomogeneities by a premixed flame. International Journal of Spray and Combustion Dynamics, 2018, 10, 111-130.	1.0	14
98	Propagation speed of inertial waves in cylindrical swirling flows. Journal of Fluid Mechanics, 2019, 879, 85-120.	3.4	14
99	Dynamics of unsteady heat transfer in pulsating flow across a cylinder. International Journal of Heat and Mass Transfer, 2017, 109, 1111-1131.	4.8	13
100	Evaluating the impact of uncertainty in flame impulse response model on thermoacoustic instability prediction: A dimensionality reduction approach. Proceedings of the Combustion Institute, 2019, 37, 5299-5306.	3.9	13
101	A state-space formulation of a discontinuous Galerkin method for thermoacoustic stability analysis. Journal of Sound and Vibration, 2020, 481, 115431.	3.9	13
102	Combustion Stability Analysis of Rocket Engines with Resonators Based on Nyquist Plots. Journal of Propulsion and Power, 2014, 30, 962-977.	2.2	12
103	Scattering to Higher Harmonics for Quarter-Wave and Helmholtz Resonators. AIAA Journal, 2017, 55, 1194-1204.	2.6	12
104	Simultaneous identification of transfer functions and combustion noise of a turbulent flame. Journal of Sound and Vibration, 2018, 422, 432-452.	3.9	12
105	Non-dimensional groups for similarity analysis of thermoacoustic instabilities. Proceedings of the Combustion Institute, 2019, 37, 5289-5297.	3.9	12
106	Response of premixed flames to irrotational and vortical velocity fields generated by acoustic perturbations. Proceedings of the Combustion Institute, 2019, 37, 5367-5375.	3.9	12
107	Quantification and Propagation of Uncertainties in Identification of Flame Impulse Response for Thermoacoustic Stability Analysis. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	12
108	Low-Order Modeling to Investigate Clusters of Intrinsic Thermoacoustic Modes in Annular Combustors. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	12

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109	Statistics of helicity fluctuations in homogeneous turbulence. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 115-129.	1.6	11
110	Measurement of Transfer Matrices and Source Terms of Premixed Flames. , 1999, , .		11
111	Prediction of Acoustic Pressure Spectra in Combustion Systems Using Swirl Stabilized Gas Turbine Burners. , 2000, , .		11
112	Approximation of joint PDFs by discrete distributions generated with Monte Carlo methods. <i>Combustion Theory and Modelling</i> , 2006, 10, 535-558.	1.9	11
113	Reconstruction of Acoustic Transfer Matrices from Large-Eddy-Simulations of Compressible Turbulent Flows. , 2008, , .		11
114	An analytical model for the impulse response of laminar premixed flames to equivalence ratio perturbations. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3725-3732.	3.9	11
115	Self-Sustained Aeroacoustic Oscillations in Multiple Side Branch Pipe Systems. , 2009, , .		10
116	Optimizing thermoacoustic regenerators for maximum amplification of acoustic power. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 2432-2440.	1.1	10
117	Mapping the Influence of Acoustic Resonators on Rocket Engine Combustion Stability. <i>Journal of Propulsion and Power</i> , 2015, 31, 1159-1166.	2.2	10
118	Online Monitoring of Thermoacoustic Eigenmodes in Annular Combustion Systems Based on a State-Space Model. <i>Journal of Engineering for Gas Turbines and Power</i> , 2017, 139, .	1.1	10
119	Nonlinear aeroacoustic characterization of Helmholtz resonators with a local-linear neuro-fuzzy network model. <i>Journal of Sound and Vibration</i> , 2017, 407, 170-190.	3.9	10
120	Response of a swirl flame to inertial waves. <i>International Journal of Spray and Combustion Dynamics</i> , 2018, 10, 277-286.	1.0	10
121	Impact of Swirl Fluctuations on the Flame Response of a Perfectly Premixed Swirl Burner. , 2009, , .		9
122	Shape optimization of a Helmholtz resonator using an adjoint method. <i>International Journal of Spray and Combustion Dynamics</i> , 2017, 9, 394-408.	1.0	9
123	Time-Domain Bloch Boundary Conditions for Efficient Simulation of Thermoacoustic Limit Cycles in (Can-)Annular Combustors. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	1.1	9
124	Ignition Delay Time Modulation as a Contribution to Thermo-Acoustic Instability in Sequential Combustion. , 2000, , .		8
125	Auto-Ignition in a Gas Turbine Burner at Elevated Temperature. , 2003, , 195.		8
126	Determination of Acoustic Transfer Matrices via Large Eddy Simulation and System Identification. , 2010, , .		8

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127	Large Eddy Simulation of particle-laden swirling flow with a presumed function method of moments. Progress in Computational Fluid Dynamics, 2012, 12, 92.	0.2	8
128	Uncertainty Quantification of Growth Rates of Thermoacoustic Instability by an Adjoint Helmholtz Solver. , 2016, , .		8
129	LES Combustion Model With Stretch and Heat Loss Effects for Prediction of Premix Flame Characteristics and Dynamics. , 2017, , .		8
130	A systems perspective on non-normality in low-order thermoacoustic models: Full norms, semi-norms and transient growth. International Journal of Spray and Combustion Dynamics, 2017, 9, 19-43.	1.0	8
131	Direct Assessment of the Acoustic Scattering Matrix of a Turbulent Swirl Combustor by Combining System Identification, Large Eddy Simulation and Analytical Approaches. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	8
132	A categorization of marginally stable thermoacoustic modes based on phasor diagrams. Combustion and Flame, 2021, 228, 236-249.	5.2	8
133	Low-Order Modeling of Can-Annular Combustors. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	8
134	Auto-Ignition and Heat Release in a Gas Turbine Burner at Elevated Temperature. , 2004, , 179.		7
135	Filter-Based Time-Domain Impedance Boundary Conditions for CFD Applications. , 2008, , .		7
136	Analyzing and modeling the dynamic thermal behaviors of direct contact condensers packed with PCM spheres. Continuum Mechanics and Thermodynamics, 2013, 25, 23-41.	2.2	7
137	Bifurcation study of azimuthal bulk flow in annular combustion systems with cylindrical symmetry breaking. International Journal of Spray and Combustion Dynamics, 2017, 9, 438-451.	1.0	7
138	Quantification of the Impact of Uncertainties in Operating Conditions on the Flame Transfer Function With Nonintrusive Polynomial Chaos Expansion. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	7
139	Flame response to transverse velocity excitation leading to frequency doubling and modal coupling. Combustion and Flame, 2021, 230, 111412.	5.2	7
140	Efficient Robust Design for Thermoacoustic Instability Analysis: A Gaussian Process Approach. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	7
141	Thermoacoustic Spectrum of a Swirled Premixed Combustor With Partially Reflecting Boundaries. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	7
142	Parametric LES/SI Based Aeroacoustic Characterization of Tandem Orifices in Low Mach Number Flows. Acta Acustica United With Acustica, 2016, 102, 793-803.	0.8	7
143	Linear instability of a premixed slot flame: Flame transfer function and resolvent analysis. Combustion and Flame, 2022, 240, 112016.	5.2	7
144	A NO _x Prediction Scheme for Lean-Premixed Gas Turbine Combustion Based on Detailed Chemical Kinetics. , 1995, , .		6

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145	Modeling of Inhomogeneously Premixed Combustion With an Extended TFC Model. , 2000, , .		6
146	Some regularization methods for a thermoacoustic inverse problem. Journal of Inverse and Ill-Posed Problems, 2011, 18, .	1.0	6
147	A Quadrature Method of Moments for Polydisperse Flow in Bubble Columns Including Poly-Celerity, Breakup and Coalescence. Journal of Computational Multiphase Flows, 2014, 6, 457-474.	0.8	6
148	Determination of Acoustic Impedance for Helmholtz Resonators Through Incompressible Unsteady Flow Simulations. AIAA Journal, 2017, 55, 790-798.	2.6	6
149	An analytical model based on the G -equation for the response of technically premixed flames to perturbations of equivalence ratio. International Journal of Spray and Combustion Dynamics, 2018, 10, 103-110.	1.0	6
150	A Strategy to Tune Acoustic Terminations of Single-Can Test-Rigs to Mimic Thermoacoustic Behavior of a Full Engine. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	6
151	Simulation of pure sedimentation of raindrops using quadrature method of moments. Atmospheric Research, 2012, 106, 61-70.	4.1	5
152	Noise Produced by a Tandem Diaphragm: Experimental and Numerical Investigations. , 2014, , .		5
153	Large Eddy Simulation of ALSTOM's Reheat Combustor Using Tabulated Chemistry and Stochastic Fields-Combustion Model. , 2014, , .		5
154	Acoustical characteristics of two-phase horizontal intermittent flow through an orifice. Acta Acustica United With Acustica, 2016, 102, 804-812.	0.8	5
155	Identification of the heat transfer frequency response in pulsating laminar and subcritical flow across a cylinder. Journal of Physics: Conference Series, 2016, 745, 032055.	0.4	5
156	Modulation of spray droplet number density and size distribution by an acoustic field. Journal of Computational Multiphase Flows, 2017, 9, 32-46.	0.8	5
157	Determination of Acoustic Scattering Matrices from Linearized Compressible Flow Equations with Application to Thermoacoustic Stability Analysis. Journal of Theoretical and Computational Acoustics, 2019, 27, 1850027.	1.1	5
158	Large eddy simulation of enhanced heat transfer in pulsatile turbulent channel flow. International Journal of Heat and Mass Transfer, 2019, 144, 118585.	4.8	5
159	LES-Based Study of the Influence of Thermal Boundary Condition and Combustor Confinement on Premix Flame Transfer Functions. , 2012, , .		4
160	Control authority over a combustion instability investigated in CFD. International Journal of Spray and Combustion Dynamics, 2016, 8, 39-52.	1.0	4
161	Theoretical investigation of the particle response to an acoustic field. International Journal of Spray and Combustion Dynamics, 2016, 8, 262-270.	1.0	4
162	Quantitative comparison of presumed-number-density and quadrature moment methods for the parameterisation of drop sedimentation. Meteorologische Zeitschrift, 2014, 23, 411-423.	1.0	4

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163	Scattering and Generation of Acoustic Energy by a Premix Swirl Burner. , 2007, , 125.		3
164	Flow-Induced Pulsations in Double Closed Branch Systems. , 2010, , .		3
165	Large Eddy Simulation of Autoignition in a Turbulent Hydrogen Jet Flame Using a Progress Variable Approach. Journal of Combustion, 2012, 2012, 1-11.	1.0	3
166	Including Heat Loss and Quench Effects in Algebraic Models for Large Eddy Simulation of Premixed Combustion. , 2012, , .		3
167	Low-Order Analysis of Conjugate Heat Transfer in Pulsating Flow with Fluctuating Temperature. Journal of Physics: Conference Series, 2012, 395, 012040.	0.4	3
168	A quasi-one-dimensional model of thermoacoustics in the presence of mean flow. Journal of Sound and Vibration, 2015, 335, 204-228.	3.9	3
169	Tailored Green's Functions for the Prediction of the Noise Generated by Single and Tandem Diaphragms in a Circular Duct. Acta Acustica United With Acustica, 2016, 102, 779-792.	0.8	3
170	Convective Scaling of Intrinsic Thermo-Acoustic Eigenfrequencies of a Premixed Swirl Combustor. , 2017, , .		3
171	Prediction of ducted diaphragm noise using a stochastic approach with adapted temporal filters. International Journal of Aeroacoustics, 2019, 18, 49-72.	1.3	3
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