

R I Sujith

List of Publications by Year in descending order

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papers

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81743

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#	ARTICLE	IF	CITATIONS
1	Intermittency route to thermoacoustic instability in turbulent combustors. <i>Journal of Fluid Mechanics</i> , 2014, 756, 470-487.	1.4	233
2	Sensitivity and Nonlinearity of Thermoacoustic Oscillations. <i>Annual Review of Fluid Mechanics</i> , 2018, 50, 661-689.	10.8	203
3	Nonlinear self-excited thermoacoustic oscillations: intermittency and flame blowout. <i>Journal of Fluid Mechanics</i> , 2012, 713, 376-397.	1.4	191
4	Thermoacoustic instability in a Rijke tube: Non-normality and nonlinearity. <i>Physics of Fluids</i> , 2008, 20, .	1.6	188
5	Multifractality in combustion noise: predicting an impending combustion instability. <i>Journal of Fluid Mechanics</i> , 2014, 747, 635-655.	1.4	169
6	Route to chaos for combustion instability in ducted laminar premixed flames. <i>Chaos</i> , 2012, 22, 023129.	1.0	141
7	Non-normality and nonlinearity in combustion acoustic interaction in diffusion flames. <i>Journal of Fluid Mechanics</i> , 2008, 594, 29-57.	1.4	130
8	Loss of Chaos in Combustion Noise as a Precursor of Impending Combustion Instability. <i>International Journal of Spray and Combustion Dynamics</i> , 2013, 5, 273-290.	0.4	128
9	EXACT SOLUTIONS FOR THE LONGITUDINAL VIBRATION OF NON-UNIFORM RODS. <i>Journal of Sound and Vibration</i> , 1997, 207, 721-729.	2.1	111
10	Combustion noise is scale-free: transition from scale-free to order at the onset of thermoacoustic instability. <i>Journal of Fluid Mechanics</i> , 2015, 772, 225-245.	1.4	106
11	Bifurcation Analysis of Thermoacoustic Instability in a Horizontal Rijke Tube. <i>International Journal of Spray and Combustion Dynamics</i> , 2010, 2, 325-355.	0.4	97
12	Complex system approach to investigate and mitigate thermoacoustic instability in turbulent combustors. <i>Physics of Fluids</i> , 2020, 32, .	1.6	97
13	An exact solution for one-dimensional acoustic fields in ducts with an axial temperature gradient. <i>Journal of Sound and Vibration</i> , 1995, 184, 389-402.	2.1	88
14	Thermoacoustic instability as mutual synchronization between the acoustic field of the confinement and turbulent reactive flow. <i>Journal of Fluid Mechanics</i> , 2017, 827, 664-693.	1.4	88
15	Bifurcations of Self-Excited Ducted Laminar Premixed Flames. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012, 134, .	0.5	86
16	Deep learning for early warning signals of tipping points. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	84
17	A reduced-order model for the onset of combustion instability: Physical mechanisms for intermittency and precursors. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 3193-3200.	2.4	74
18	Early warning signals for critical transitions in a thermoacoustic system. <i>Scientific Reports</i> , 2016, 6, 35310.	1.6	70

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19	Onset of thermoacoustic instability in turbulent combustors: an emergence of synchronized periodicity through formation of chimera-like states. <i>Journal of Fluid Mechanics</i> , 2017, 811, 659-681.	1.4	69
20	Detecting deterministic nature of pressure measurements from a turbulent combustor. <i>Physical Review E</i> , 2015, 92, 062902.	0.8	68
21	Identifying homoclinic orbits in the dynamics of intermittent signals through recurrence quantification. <i>Chaos</i> , 2013, 23, 033136.	1.0	61
22	Subcritical bifurcation and bistability in thermoacoustic systems. <i>Journal of Fluid Mechanics</i> , 2013, 715, 210-238.	1.4	57
23	Novel perspectives on the dynamics of premixed flames. <i>Combustion and Flame</i> , 2013, 160, 1215-1224.	2.8	55
24	Experimental investigation of noise induced triggering in thermoacoustic systems. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 3175-3183.	2.4	54
25	Exact solutions to one-dimensional acoustic fields with temperature gradient and mean flow. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 38-43.	0.5	53
26	Recurrence networks to study dynamical transitions in a turbulent combustor. <i>Chaos</i> , 2017, 27, 063113.	1.0	53
27	Characterizing energy growth during combustion instabilities: Singular values or eigenvalues?. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 2933-2940.	2.4	52
28	Precursors to flutter instability by an intermittency route: A model free approach. <i>Journal of Fluids and Structures</i> , 2016, 61, 376-391.	1.5	51
29	Unsteady combustion response of a ducted non-premixed flame and acoustic coupling. <i>Combustion Theory and Modelling</i> , 2007, 11, 205-226.	1.0	50
30	Multifractal characteristics of combustor dynamics close to lean blowout. <i>Journal of Fluid Mechanics</i> , 2015, 784, 30-50.	1.4	50
31	Effect of external noise on the hysteresis characteristics of a thermoacoustic system. <i>Journal of Fluid Mechanics</i> , 2015, 776, 334-353.	1.4	50
32	Closed-form solutions for the free longitudinal vibration of inhomogeneous rods. <i>Journal of Sound and Vibration</i> , 2005, 283, 1015-1030.	2.1	49
33	An experimental investigation of interaction of sprays with acoustic fields. <i>Experiments in Fluids</i> , 2005, 38, 576-587.	1.1	49
34	Synchronous behaviour of two interacting oscillatory systems undergoing quasiperiodic route to chaos. <i>Chaos</i> , 2017, 27, 103119.	1.0	46
35	Coupled interaction between unsteady flame dynamics and acoustic field in a turbulent combustor. <i>Chaos</i> , 2018, 28, 113111.	1.0	46
36	Experimental Evidence of Amplitude Death and Phase-Flip Bifurcation between In-Phase and Anti-Phase Synchronization. <i>Scientific Reports</i> , 2018, 8, 11626.	1.6	44

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37	Flame dynamics during intermittency in a turbulent combustor. Proceedings of the Combustion Institute, 2017, 36, 3791-3798.	2.4	43
38	Non-normality and nonlinearity in thermoacoustic instabilities. International Journal of Spray and Combustion Dynamics, 2016, 8, 119-146.	0.4	42
39	Detecting the Onset of an Impending Thermoacoustic Instability Using Complex Networks. Journal of Propulsion and Power, 2016, 32, 707-712.	1.3	42
40	Multi-fractality in aeroelastic response as a precursor to flutter. Journal of Sound and Vibration, 2017, 386, 390-406.	2.1	41
41	Pattern formation during transition from combustion noise to thermoacoustic instability via intermittency. Journal of Fluid Mechanics, 2018, 849, 615-644.	1.4	39
42	Modelling nonlinear thermoacoustic instability in an electrically heated Rijke tube. Journal of Fluid Mechanics, 2011, 680, 511-533.	1.4	37
43	Dynamical systems and complex systems theory to study unsteady combustion. Proceedings of the Combustion Institute, 2021, 38, 3445-3462.	2.4	37
44	Experimental Investigation of the Evaporation of Droplets in Axial Acoustic Fields. Journal of Propulsion and Power, 2000, 16, 278-285.	1.3	36
45	Hybrid CFD/low-order modeling of nonlinear thermoacoustic oscillations. Proceedings of the Combustion Institute, 2017, 36, 3827-3834.	2.4	36
46	Intermittency as a Transition State in Combustor Dynamics: An Explanation for Flame Dynamics Near Lean Blowout. Combustion Science and Technology, 2015, 187, 1821-1835.	1.2	35
47	Dynamical systems approach to study thermoacoustic transitions in a liquid rocket combustor. Chaos, 2019, 29, 103115.	1.0	34
48	Oscillation quenching and phase-flip bifurcation in coupled thermoacoustic systems. Chaos, 2019, 29, 093135.	1.0	34
49	Influence of System Parameters on the Hysteresis Characteristics of a Horizontal Rijke Tube. International Journal of Spray and Combustion Dynamics, 2014, 6, 293-316.	0.4	33
50	Thermoacoustic instability in a solid rocket motor: non-normality and nonlinear instabilities. Journal of Fluid Mechanics, 2010, 653, 1-33.	1.4	32
51	On Chu's disturbance energy. Journal of Sound and Vibration, 2011, 330, 5280-5291.	2.1	32
52	Effect of time-delay and dissipative coupling on amplitude death in coupled thermoacoustic oscillators. Chaos, 2018, 28, 033119.	1.0	32
53	A FAMILY OF EXACT TRANSIENT SOLUTIONS FOR ACOUSTIC WAVE PROPAGATION IN INHOMOGENEOUS, NON-UNIFORM AREA DUCTS. Journal of Sound and Vibration, 2001, 240, 705-715.	2.1	31
54	Intermittency Route to Combustion Instability in a Laboratory Spray Combustor. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	0.5	31

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55	A reduced-order deterministic model describing an intermittency route to combustion instability. <i>Combustion Theory and Modelling</i> , 2016, 20, 441-456.	1.0	31
56	Non-normality and its consequences in active control of thermoacoustic instabilities. <i>Journal of Fluid Mechanics</i> , 2011, 670, 130-149.	1.4	30
57	Bursting and mixed mode oscillations during the transition to limit cycle oscillations in a matrix burner. <i>Chaos</i> , 2019, 29, 043117.	1.0	30
58	Lagrangian analysis of intermittent sound sources in the flow-field of a bluff-body stabilized combustor. <i>Physics of Fluids</i> , 2019, 31, .	1.6	29
59	On the emergence of large clusters of acoustic power sources at the onset of thermoacoustic instability in a turbulent combustor. <i>Journal of Fluid Mechanics</i> , 2019, 874, 455-482.	1.4	28
60	Exact Solution for One-Dimensional Acoustic Fields in Ducts With Polynomial Mean Temperature Profiles. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1998, 120, 965-969.	1.0	27
61	Swirler Flow Field Characteristics in a Sudden Expansion Combustor Geometry. <i>Journal of Propulsion and Power</i> , 2006, 22, 800-808.	1.3	27
62	Stochastic bifurcations in a prototypical thermoacoustic system. <i>Physical Review E</i> , 2016, 94, 022203.	0.8	27
63	Bursting during intermittency route to thermoacoustic instability: Effects of slow-fast dynamics. <i>Chaos</i> , 2020, 30, 103112.	1.0	27
64	Identification of heat transfer dynamics for non-modal analysis of thermoacoustic stability. <i>Applied Mathematics and Computation</i> , 2011, 217, 5134-5150.	1.4	26
65	Nonlinear dynamics and intermittency in a turbulent reacting wake with density ratio as bifurcation parameter. <i>Physical Review E</i> , 2016, 94, 042206.	0.8	26
66	On the emergence of critical regions at the onset of thermoacoustic instability in a turbulent combustor. <i>Chaos</i> , 2018, 28, 063125.	1.0	26
67	A Theoretical Investigation of the Behavior of Droplets in Axial Acoustic Fields. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1999, 121, 286-294.	1.0	24
68	Non-normality and internal flame dynamics in premixed flame-acoustic interaction. <i>Journal of Fluid Mechanics</i> , 2011, 679, 315-342.	1.4	24
69	Investigating the dynamics of combustion-driven oscillations leading to lean blowout. <i>Fluid Dynamics Research</i> , 2012, 44, 031408.	0.6	24
70	Effect of noise amplification during the transition to amplitude death in coupled thermoacoustic oscillators. <i>Chaos</i> , 2018, 28, 093116.	1.0	24
71	Forced synchronization and asynchronous quenching of periodic oscillations in a thermoacoustic system. <i>Journal of Fluid Mechanics</i> , 2019, 864, 73-96.	1.4	24
72	Nonlinear Response of Diffusion Flames to Uniform Velocity Disturbances. <i>Combustion Science and Technology</i> , 2008, 180, 418-436.	1.2	23

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73	Effect of rate of change of parameter on early warning signals for critical transitions. Chaos, 2021, 31, 013116.	1.0	23
74	An Experimental Investigation of the Behavior of Droplets in Axial Acoustic Fields. Journal of Vibration and Acoustics, Transactions of the ASME, 1997, 119, 285-292.	1.0	22
75	Nonlinear distortion of travelling waves in variable-area ducts with entropy gradients. Journal of Fluid Mechanics, 2003, 492, 1-22.	1.4	22
76	Change of criticality in a prototypical thermoacoustic system. Chaos, 2017, 27, 023106.	1.0	22
77	Suppression of thermoacoustic instability by targeting the hubs of the turbulent networks in a bluff body stabilized combustor. Journal of Fluid Mechanics, 2021, 916, .	1.4	22
78	Dragon-king extreme events as precursors for catastrophic transition. Europhysics Letters, 2021, 134, 34006.	0.7	22
79	Mitigation of oscillatory instability in turbulent reactive flows: A novel approach using complex networks. Europhysics Letters, 2019, 128, 14003.	0.7	21
80	Mechanism of Pipe-Tone Excitation by Flow through an Orifice in a Duct. International Journal of Aeroacoustics, 2008, 7, 321-347.	0.8	20
81	Network structure of turbulent premixed flames. Chaos, 2017, 27, 043107.	1.0	20
82	Strange nonchaos in self-excited singing flames. Europhysics Letters, 2019, 128, 54005.	0.7	20
83	Synchronization route to weak chimera in four candle-flame oscillators. Physical Review E, 2019, 100, 062204.	0.8	19
84	Role of buoyancy-driven vortices in inducing different modes of coupled behaviour in candle-flame oscillators. AIP Advances, 2019, 9, .	0.6	19
85	Thermoacoustic Instability. Springer Series in Synergetics, 2021, , .	0.2	19
86	An automated vortex detection scheme using the wavelet transform of the d 2 field. Experiments in Fluids, 2008, 45, 857-868.	1.1	18
87	Distributed time lag response functions for the modelling of combustion dynamics. Combustion Theory and Modelling, 2015, 19, 223-237.	1.0	18
88	Universality in the emergence of oscillatory instabilities in turbulent flows. Europhysics Letters, 2020, 129, 24004.	0.7	18
89	Multifractal analysis of flame dynamics during transition to thermoacoustic instability in a turbulent combustor. Journal of Fluid Mechanics, 2020, 888, .	1.4	18
90	Rate dependent transition to thermoacoustic instability via intermittency in a turbulent afterburner. Experimental Thermal and Fluid Science, 2020, 114, 110046.	1.5	18

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91	Effect of amplitude and frequency of limit cycle oscillators on their coupled and forced dynamics. <i>Nonlinear Dynamics</i> , 2021, 103, 1439-1452.	2.7	18
92	Experimental investigation on the susceptibility of minimal networks to a change in topology and number of oscillators. <i>Physical Review E</i> , 2021, 103, 022207.	0.8	18
93	Disturbance energy norms: A critical analysis. <i>Journal of Sound and Vibration</i> , 2012, 331, 1552-1566.	2.1	17
94	Experimental Investigation of Bifurcations in a Thermoacoustic Engine. <i>International Journal of Spray and Combustion Dynamics</i> , 2015, 7, 113-129.	0.4	17
95	Role of Flame Dynamics on the Bifurcation Characteristics of a Ducted V-Flame. <i>Combustion Science and Technology</i> , 2015, 187, 894-905.	1.2	17
96	Synchronization framework for modeling transition to thermoacoustic instability in laminar combustors. <i>Nonlinear Dynamics</i> , 2020, 100, 3295-3306.	2.7	17
97	Coupled interaction between acoustics and unsteady flame dynamics during the transition to thermoacoustic instability in a multi-element rocket combustor. <i>Combustion and Flame</i> , 2022, 240, 112047.	2.8	17
98	Exact solution for one-dimensional acoustic fields in ducts with a quadratic mean temperature profile. <i>Journal of the Acoustical Society of America</i> , 1997, 101, 3798-3799.	0.5	16
99	Characterization of an Acoustically Self-Excited Combustor for Spray Evaporation. <i>Journal of Propulsion and Power</i> , 2008, 24, 1382-1389.	1.3	16
100	Experimental Investigation of Non-Normality of Thermoacoustic Interaction in an Electrically Heated Rijke Tube. <i>International Journal of Spray and Combustion Dynamics</i> , 2015, 7, 315-352.	0.4	16
101	Online Detection of Impending Instability in a Combustion System Using Tools from Symbolic Time Series Analysis. <i>International Journal of Spray and Combustion Dynamics</i> , 2015, 7, 243-255.	0.4	15
102	Intermittent Burst Oscillations: Signature Prior to Flame Blowout in a Turbulent Swirl-Stabilized Combustor. <i>Journal of Propulsion and Power</i> , 2015, 31, 1661-1671.	1.3	15
103	Compact standing wave thermoacoustic generator for power conversion applications. <i>Applied Acoustics</i> , 2016, 110, 110-118.	1.7	15
104	Precursors to self-sustained oscillations in aeroacoustic systems. <i>International Journal of Aeroacoustics</i> , 2016, 15, 312-323.	0.8	15
105	Temporal and Spatiotemporal Analyses of Synchronization Transition in a Swirl-Stabilized Combustor. <i>AIAA Journal</i> , 2019, 57, 836-847.	1.5	15
106	On the mechanism of open-loop control of thermoacoustic instability in a laminar premixed combustor. <i>Journal of Fluid Mechanics</i> , 2020, 884, .	1.4	15
107	Synchronization transition from chaos to limit cycle oscillations when a locally coupled chaotic oscillator grid is coupled globally to another chaotic oscillator. <i>Chaos</i> , 2020, 30, 033121.	1.0	15
108	Flame dynamics during intermittency and secondary bifurcation to longitudinal thermoacoustic instability in a swirl-stabilized annular combustor. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6221-6230.	2.4	15

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109	Propagation of Sound in Inhomogeneous Media: Exact, Transient Solutions in Curvilinear Geometries. Journal of Vibration and Acoustics, Transactions of the ASME, 2003, 125, 133-136.	1.0	14
110	Universality in spectral condensation. Scientific Reports, 2020, 10, 17405.	1.6	14
111	Detection of dynamical regime transitions with lacunarity as a multiscale recurrence quantification measure. Nonlinear Dynamics, 2021, 104, 3955-3973.	2.7	14
112	Critical transitions and their early warning signals in thermoacoustic systems. European Physical Journal: Special Topics, 2021, 230, 3411-3432.	1.2	14
113	Exact solutions for modeling sound propagation through a combustion zone. Journal of the Acoustical Society of America, 2001, 110, 1839-1844.	0.5	13
114	Mixing of high speed coaxial jets. Experiments in Fluids, 2001, 30, 339-345.	1.1	12
115	Impact of Linear Coupling on Thermoacoustic Instabilities. Combustion Science and Technology, 2008, 180, 1588-1612.	1.2	12
116	Characterization of a Prefilming Airblast Atomizer in a Strong Swirl Flow Field. Journal of Propulsion and Power, 2008, 24, 1124-1132.	1.3	12
117	Dynamics of Spray " Swirl " Acoustics Interactions. International Journal of Spray and Combustion Dynamics, 2011, 3, 1-22.	0.4	12
118	Non-normality in combustion"acoustic interaction in diffusion flames: a critical revision. Journal of Fluid Mechanics, 2013, 733, 681-683.	1.4	12
119	Recurrence analysis of slow"fast systems. Chaos, 2020, 30, 063152.	1.0	12
120	Mixing of Transversely Injected Jets into a Crossflow Under Low-Density Conditions. AIAA Journal, 2002, 40, 1388-1394.	1.5	11
121	The Effect of Resonant Acoustic Oscillations on Heat and Mass Transfer Rates in a Convection Air Dryer. Drying Technology, 2006, 24, 931-939.	1.7	11
122	Investigation of Subcritical Instability in Ducted Premixed Flames. , 2011, , .		11
123	Experimental investigation on preconditioned rate induced tipping in a thermoacoustic system. Scientific Reports, 2017, 7, 5414.	1.6	11
124	Condensation in the phase space and network topology during transition from chaos to order in turbulent thermoacoustic systems. Chaos, 2021, 31, 043126.	1.0	11
125	Exact solution for sound propagation in ducts with an axial mean temperature gradient and particulate damping. Journal of the Acoustical Society of America, 1999, 106, 2391-2395.	0.5	10
126	Shock formation in the presence of entropy gradients in fluids exhibiting mixed nonlinearity. Physics of Fluids, 2004, 16, 4121-4128.	1.6	10

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127	Emergence of acoustic waves from vorticity fluctuations: Impact of non-normality. <i>Physical Review E</i> , 2009, 80, 046321.	0.8	10
128	Predicting the Amplitude of Limit-Cycle Oscillations in Thermoacoustic Systems with Vortex Shedding. <i>AIAA Journal</i> , 2018, 56, 3507-3514.	1.5	10
129	Interplay between random fluctuations and rate dependent phenomena at slow passage to limit-cycle oscillations in a bistable thermoacoustic system. <i>Chaos</i> , 2019, 29, 031102.	1.0	10
130	Dynamics of Coupled Thermoacoustic Oscillators Under Asymmetric Forcing. <i>Physical Review Applied</i> , 2021, 15, .	1.5	10
131	Determination of unsteady heat release distribution from acoustic pressure measurements: A reformulation of the inverse problem. <i>Journal of the Acoustical Society of America</i> , 2003, 114, 686-696.	0.5	9
132	Jet forking driven by pipe tone. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 3091.	0.5	9
133	Characteristics of acoustic standing waves in packed-bed columns. <i>AIChE Journal</i> , 2007, 53, 297-304.	1.8	9
134	Precursors to blowout in a turbulent combustor based on recurrence quantification. , 2016, , .		9
135	Investigation into the coherence of flame intensity oscillations in a model multi-element rocket combustor using complex networks. <i>Physics of Fluids</i> , 2022, 34, .	1.6	9
136	Optimal state space reconstruction via Monte Carlo decision tree search. <i>Nonlinear Dynamics</i> , 2022, 108, 1525-1545.	2.7	9
137	The propagation of finite amplitude gasdynamic disturbances in a stratified atmosphere around a celestial body: An analytical study. <i>Physica D: Nonlinear Phenomena</i> , 2005, 211, 139-150.	1.3	8
138	Kinematic Coupling Effects on Heat-Release Transfer Function of a Premixed Flame. <i>Journal of Propulsion and Power</i> , 2005, 21, 591-599.	1.3	8
139	Revisiting a Model for Combustion Instability Involving Vortex Shedding. <i>Combustion Science and Technology</i> , 2009, 181, 457-482.	1.2	8
140	A systems perspective on non-normality in low-order thermoacoustic models: Full norms, semi-norms and transient growth. <i>International Journal of Spray and Combustion Dynamics</i> , 2017, 9, 19-43.	0.4	8
141	Characterization of forced response of density stratified reacting wake. <i>Chaos</i> , 2018, 28, 023108.	1.0	8
142	Emergence of order from chaos: A phenomenological model of coupled oscillators. <i>Chaos, Solitons and Fractals</i> , 2020, 141, 110334.	2.5	8
143	Effect of preheating of the reactants on the transition to thermoacoustic instability in a bluff-body stabilized dump combustor. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6193-6201.	2.4	8
144	Nonlinear distortion of travelling waves in variable-area ducts with base flow: a quasi-one-dimensional analysis. <i>Journal of Fluid Mechanics</i> , 2005, 536, 347-366.	1.4	7

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145	Uncertainty quantification of subcritical bifurcations. Probabilistic Engineering Mechanics, 2013, 34, 177-188.	1.3	7
146	Thermoacoustic Instabilities in a Ducted Premixed Flame: Reduced-Order Models and Control. Combustion Science and Technology, 2013, 185, 920-942.	1.2	7
147	A bifurcation giving birth to order in an impulsively driven complex system. Chaos, 2016, 26, 083103.	1.0	7
148	Dynamical Characterization of Thermoacoustic Oscillations in a Hydrogen-Enriched Partially Premixed Swirl-Stabilized Methane/Air Combustor. Journal of Engineering for Gas Turbines and Power, 2021, , .	0.5	7
149	Rijke tube: A nonlinear oscillator. Chaos, 2022, 32, .	1.0	7
150	Transfer matrix of a uniform duct with an axial mean temperature gradient. Journal of the Acoustical Society of America, 1996, 100, 2540-2542.	0.5	6
151	ACOUSTIC NEARFIELD CHARACTERISTICS OF A WRINKLED PREMIXED FLAME. Combustion Science and Technology, 2006, 178, 1263-1295.	1.2	6
152	Experimental Studies of Bifurcations Leading to Chaos in a Laboratory Scale Thermoacoustic System. , 2011, , .		6
153	Engineering Precursors to Forewarn the Onset of an Impending Combustion Instability. , 2014, , .		6
154	Intermittency, Secondary Bifurcation and Mixed-Mode Oscillations in a Swirl-Stabilized Annular Combustor: Experiments and Modeling. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	6
155	Convolutional neural networks to predict the onset of oscillatory instabilities in turbulent systems. Chaos, 2021, 31, 093131.	1.0	6
156	Neural ODE to model and prognose thermoacoustic instability. Chaos, 2022, 32, 013131.	1.0	6
157	Studies on freejets from nozzles for high-speed mixing applications. Experiments in Fluids, 2000, 29, 359-368.	1.1	5
158	Non-normality and nonlinearity in combustionâ€™acoustic interaction in diffusion flames â€™ CORRIGENDUM. Journal of Fluid Mechanics, 2013, 733, 680-680.	1.4	5
159	Spatiotemporal dynamics during the transition to thermoacoustic instability: Effect of varying turbulence intensities. International Journal of Spray and Combustion Dynamics, 2018, 10, 337-350.	0.4	5
160	Flame blowout: Transition to an absorbing phase. Chaos, 2018, 28, 113121.	1.0	5
161	Nonlinear flame response dependencies of a V-flame subjected to harmonic forcing and turbulence. Combustion and Flame, 2019, 207, 101-119.	2.8	5
162	Analysis and classification of droplet characteristics from atomizers using multifractal analysis. Scientific Reports, 2019, 9, 16218.	1.6	5

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163	Phase synchronization and collective interaction of multiple flamelets in a laboratory scale spray combustor. Proceedings of the Combustion Institute, 2019, 37, 5121-5128.	2.4	5
164	Critical region in the spatiotemporal dynamics of a turbulent thermoacoustic system and smart passive control. Combustion and Flame, 2021, 226, 274-284.	2.8	5
165	A theoretical investigation of enhancement of mass transfer from a packed bed using acoustic oscillations. Canadian Journal of Chemical Engineering, 2000, 78, 1145-1150.	0.9	4
166	Effect of Liquid Injection on Acoustic Field Induced from Supersonic Flow Past Cavities. Journal of Propulsion and Power, 2008, 24, 681-687.	1.3	4
167	Instability mechanisms in a low-Mach-number reacting flow from coupled convection-reaction-diffusion equations. Physics of Fluids, 2015, 27, .	1.6	4
168	Physical mechanisms that cause intermittency that presages combustion instability and blowout in a turbulent lifted jet flame combustor. Combustion Science and Technology, 0, , 1-24.	1.2	4
169	On the Effect of Evaporation on Droplet Drag. Journal of Fluids Engineering, Transactions of the ASME, 1996, 118, 862-864.	0.8	3
170	Intermittency: A State that Precedes Thermoacoustic Instability. Energy, Environment, and Sustainability, 2018, , 403-430.	0.6	3
171	Synchronization Transition in a Thermoacoustic System: Temporal and Spatiotemporal Analyses. Green Energy and Technology, 2018, , 125-150.	0.4	3
172	A numerical study of an acoustic-hydrodynamic system exhibiting an intermittent prelude to instability. International Journal of Aeroacoustics, 2019, 18, 536-553.	0.8	3
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