

Journal Publications

Nos.	Year	Details	Citation & Impact factor
1	2016	Vikrant Gupta, Aditya Saurabh, C.O. Paschereit and Lipika Kabiraj , Numerical results on noise-induced dynamics in the subthreshold regime for thermoacoustic systems Journal of Sound and Vibration, Journal of Sound and Vibration (accepted)	Journal Impact factor: 2.107
2	2016	Aditya Saurabh, Lipika Kabiraj , Richard Steinert and Christian Oliver Paschereit, Noise-induced Dynamics in the Subthreshold Region in thermoacoustic system, Journal of Engineering for Gas Turbines and Power, 139(3), 031508 (Oct 11, 2016) (6 pages)	Journal Impact factor: 1.095
3	2016	Loizos Christodoulou, Lipika Kabiraj , Aditya Saurabh and Nader Karimi, Characterizing the Signature of Flame Flashback Precursor through Recurrence Analysis, Chaos, 26, 01220.	Citation:1 Journal Impact factor:2.188
4	2015	Lipika Kabiraj , Richard Steinert, Aditya Saurabh and Christian Oliver Paschereit, Coherence resonance in a thermoacoustic system, Physical Review E, Vol. 92, 042909	Citation:4 Journal Impact factor:2.28
5	2015	Lipika Kabiraj , Aditya Saurabh, Nader Karimi, Anna Sailor, Epaminondas Mastorakos, Ann P. Dowling and Christian Oliver Paschereit, Chaos in an Imperfectly Premixed Model Combustor, Chaos, 25	Citation:14 Journal Impact factor:2.188
6	2015	Lipika Kabiraj , Aditya Saurabh, Holger Nawroth and Christian Oliver Paschereit, Recurrence Analysis of Combustion Noise, AIAA Journal, Vol. 53, No. 5	Citation:6 Journal Impact factor:1.207
7	2012	Lipika Kabiraj and R. I. Sujith, Nonlinear self-excited thermoacoustic oscillations: intermittency and flame blowout, Journal of Fluid Mechanics, 713	Citation: 68 Journal Impact factor:2.83
8	2012	Lipika Kabiraj , Aditya Saurabh, Pankaj Wahi and R. I. Sujith. Route to chaos for combustion instability in ducted laminar premixed flames, Chaos, 22	Citation:41 Journal Impact factor:2.188
9	2012	Lipika Kabiraj , R. I. Sujith and Pankaj Wahi. Investigating the dynamics of combustion-driven oscillations leading to lean blowout, Fluid Dynamics Research, 44	Citation:13 Journal Impact factor:0.999
10	2012	Lipika Kabiraj , R. I. Sujith and Pankaj Wahi. Bifurcations of self-excited ducted laminar premixed flames, Journal of Engineering for Gas Turbines and Power, 134	Citation:39 Journal Impact factor: 1.095
Book Chapter			
1	2016	Lipika Kabiraj, Aditya Saurabh, Holger Nawroth, R. I. Sujith, Nader	

		Karimi and C.O.Paschereit, Combustion dynamic through Recurrence analysis, C.L. Webber, Jr. et al. (eds.), Recurrence Plots and Their Quantifications: Expanding Horizons, Springer Proceedings in Physics 180.	
Conference Proceedings (Peer-reviewed)			
(Underlined presented by me)			
1	2016	Beatriz Moran, Aditya Saurabh, Christian Oliver Paschereit, <u>Lipika Kabiraj</u> , Effect of Phase-Shift Feedback on Thermoacoustic Coupling, 13th IFAC Workshop on Time Delay Systems, TDS 2016, June 22-24, Istanbul, Turkey.	
2	2016	Aditya Saurabh, Lipika Kabiraj, Richard Steinert and Christian Oliver Paschereit, Noise-Induced Dynamics in the Subthreshold Region in Thermoacoustic Systems, GT2016-57442, ASME Turbo Expo 2016: Turbomachinery Technical Conference and Exposition, Seoul, South Korea, June 13–17, 2016	
3	2015	Loizos Christodoulou, Lipika Kabiraj, Aditya Saurabh, Johannes Weinkauff, Andreas Dreizler and Nader Karimi, Detection of Flame Flashback Precursor Using the Translation Error Method, 10th Asia-Pacific Conference on Combustion, July 19-22, 2015, Beijing, China.	
4	2014	Lipika Kabiraj, Holger Nawroth, Aditya Saurabh and Christian Oliver Paschereit. Investigating recurrence patterns in turbulent combustion noise signals, 10th European Fluid Mechanics Conference, September 14-18th 2014, Copenhagen, Denmark	
5	2014	<u>Lipika Kabiraj</u> , Nader Karimi, E. Mastorakos, A. P. Dowling and Christian Oliver Paschereit. Identifying Dynamics in Thermoacoustic Oscillations Through Nonlinear Time Series Analysis of Acoustic Pressure Time Trace, 8th European Nonlinear Dynamics Conference, July 6-11, 2014, Vienna, Austria.	
6	2013	Lipika Kabiraj, Holger Nawroth, Aditya Saurabh and Christian Oliver Paschereit, Experimental Study of Noise Generation by a Turbulent Premixed Flame, 19th AIAA/CEAS Aero-acoustics Conference, May 27-29, 2013, Berlin, Germany, Paper No. 2013-2002.	
7	2012	<u>Lipika Kabiraj</u> , and R. I. Sujith, Dynamics of Thermoacoustic Oscillations Leading to Lean Flame Blowout, ASME Turbo Expo Copenhagen, Denmark, June 11–15, 2012, Paper No. GT2012-68696.	
8	2011	<u>Lipika Kabiraj</u> , and R. I. Sujith, Investigation of Subcritical Instability in Ducted Premixed Flames, ASME Turbo Expo Vancouver, British Columbia, Canada, June 6–10, 2011, Paper No. GT2011-46155.	
9	2011	<u>Lipika Kabiraj</u> , R. I. Sujith, and P. Wahi, Experimental Studies of Bifurcations Leading to Chaos in a Laboratory Scale Thermoacoustic System, ASME Turbo Expo Vancouver, British Columbia, Canada, June 6–10, 2011, Paper No. GT2011-46149.	
10	2010	<u>Lipika Kabiraj</u> , Aditya Saurabh, P. Wahi, and R. I. Sujith, The nature of combustion driven oscillations in a premixed laboratory combustor, 8th Asia Pacific Conference on Combustion,	

		ASPACC2010, Hyderabad, December 10-13, India, 2010.	
11	2010	Lipika Kabiraj, Aditya Saurabh, P. Wahi, and R. I. Sujith, Experimental study of thermoacoustic instability in ducted premixed flames: periodic, quasi-periodic and chaotic oscillations, n3l-International Summer School and Workshop on Non-Normal and Nonlinear Effects in Aero- and Thermoacoustics, Munich, Germany, May 17-21, 2010.	

Conference proceedings & Poster Presentations

(* presented by me)

1	2016	Jarred Wilhite, Brian Dolan, Rodrigo V. Gomez, Lipika Kabiraj, C.O. Paschereit and Ephraim Gutmark, Analysis of Combustion Oscillations Using Proper Orthogonal Decomposition and Dynamic Mode Decomposition, 54th AIAA Aerospace Science Meeting, January 4-8, 2016, San Diego, California, USA.	
2	2016	Lipika Kabiraj*, Pattern Formation on a Flame Front, XXXVI Dynamics Days Europe, June 6-10, Corfu, Greece, 2016.	
3	2016	Aditya Saurabh, Lipika Kabiraj and Christian Oliver Paschereit, Coherence Resonance Leads to Precursors to Thermoacoustic Instability, XXXVI Dynamics Days Europe, June 6-10, Corfu, Greece, 2016.	
4	2016	Lipika Kabiraj* and Aditya Saurabh, Coherence Resonance, Multifractality and Precursors in Noise-induced Dynamics of Thermoacoustic Coupling, The 9th Chaotic Modeling & Simulation International Conference Chaos-2016, May 23- 26, London, UK, 2016.	
5	2016	Lipika Kabiraj*, Beatriz M. Moran, Aditya Saurabh and C.O. Paschereit, Effect of Delayed Feedback on Thermoacoustic Oscillations, The 9th Chaotic Modeling & Simulation International Conference Chaos-2016, May 23- 26, London, UK.	
6	2015	Lipika Kabiraj* and Aditya Saurabh, Application of Recurrence Plots to Combustion Dynamics, 6th International Symposium on Recurrence Plots, June 17-19, Grenoble, France, 2015.	
7	2015	Anna Sailor, Lipika Kabiraj, Aditya Saurabh, Nader Karimi, Epaminondas Mastorakos, Ann P. Dowling and Christian Oliver Paschereit, An alternate approach for processing data on nonlinear flame-acoustic interaction, 7th European Combustion Meeting, March 30- 2 April, Hungary, Budapest, 2015.	
8	2015	Richard Steinert, Lipika Kabiraj, Aditya Saurabh and Christian Oliver Paschereit, Experiments on the effect of noise on a model thermoacoustic system at its stability boundary, 7th European Combustion Meeting, March 30- 2 April, Hungary, Budapest, 2015.	
9	2014	Lipika Kabiraj, Holger Nawroth, Aditya Saurabh and Christian Oliver Paschereit, Recurrence Analysis of Combustion Generated Noise, 52nd Aerospace Sciences Meeting, Jan 13-	

		17, 2014, National Harbor, Maryland, USA, AIAA paper 2014-0623.	
10	2014	Lipika Kabiraj, Aditya Saurabh, Nader Karimi, Epaminondas Mastorakos, Ann P. Dowling and Christian Oliver Paschereit, Detection of Flame Flashback Events in a Model Combustor: An implementation of recurrence quantification analysis (RQA) to combustor pressure oscillations. ASME Turbo Expo 2014, Düsseldorf, Germany.	
11	2014	Lipika Kabiraj, Nader Karimi, E. Mastorakos, A. P. Dowling and Christian Oliver Paschereit, Thermoacoustic Oscillations Prior to Flashback, Joint meeting of the British and Scandinavian-Nordic sections of the Combustion Institute, Mar 27-28, 2014, Cambridge UK.	
12	2013	Lipika Kabiraj*, Holger Nawroth, Aditya Saurabh and Christian Oliver Paschereit, Characteristics of Acoustic Fluctuations Associated with a Premixed Turbulent V-flame, Proceedings of the 6th European Combustion Meeting (ECM), June 25-28, 2013, Lund, Sweden.	
13	2013	Lipika Kabiraj*, Aditya Saurabh, Richard Steinert and Christian Oliver Paschereit, Instabilities in a Confined Flat-flame System, Proceedings of the 6th European Combustion Meeting (ECM), June 25-28, 2013, Lund, Sweden.	
14	2012	Lipika Kabiraj and R. I. Sujith, Bifurcation Analysis and Observation of Intermittency in Combustion-driven Thermoacoustic Oscillations. 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, Jan 9-12, 2012, Nashville, Tennessee, U. S. A. AIAA Paper No. 2012-344.	
15	2011	Lipika Kabiraj*, and R. I. Sujith, Nonlinear self-excited oscillations in a thermoacoustic system, 4th International Symposium Bifurcations and Instabilities in Fluid Dynamics, Barcelona, Spain, July 18-21, 2011.	
16	2010	Lipika Kabiraj* and R. I. Sujith, Experimental Studies of Bifurcations leading to Chaos in laboratory Scale Combustor, International workshop, Indo-European Network on Advanced Instability Methods, January 2011, IITM, India.	