

# Lieuwen, Tim C

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35  
papers

660  
citations

10  
h-index

25  
g-index

51  
ext. papers

836  
ext. citations

3.8  
avg, IF

4.62  
L-index

#	Paper	IF	Citations
35	Non-monotonic flame response behaviors in harmonically forced flames. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 6043-6050	5.9	3
34	Near blowout dynamics of a premixed, swirl stabilized flame. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 6067-6075	5.9	0
33	Forced flow response analysis of a turbulent swirling annular jet flame. <i>Physics of Fluids</i> , <b>2021</b> , 33, 085124	4.4	0
32	Tomographic PIV Characterization of the Near field Topology of the Reacting Jet in Crossflow <b>2020</b> ,		1
31	10-kHz simultaneous dual-plane stereo-PIV and OH-PLIF imaging. <i>Applied Physics B: Lasers and Optics</i> , <b>2020</b> , 126, 1	1.9	5
30	Turbulent Flame Structure and Dynamics in Swirling Reacting Flows: Insights from High-Speed Dual-Plane Stereo -PIV/OH-PLIF Measurements <b>2019</b> ,		1
29	Characterization of transient blowout dynamics of a swirl stabilized flame using simultaneous OH and CH <sub>2</sub> O PLIF <b>2019</b> ,		1
28	Nitrogen oxide emissions from rich premixed reacting jets in a vitiated crossflow. <i>Proceedings of the Combustion Institute</i> , <b>2019</b> , 37, 5393-5400	5.9	18
27	Axial evolution of forced helical flame and flow disturbances. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 844, 323-356	3.56	8
26	Comparison of Single- and Multinozzle Reacting Swirl Flow Dynamics. <i>Journal of Propulsion and Power</i> , <b>2018</b> , 34, 384-394	1.8	10
25	Non-linear dynamics of thermoacoustic eigen-mode interactions. <i>Combustion and Flame</i> , <b>2018</b> , 194, 309-321	3.21	9
24	Premixed turbulent flame speed in an oscillating disturbance field. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 835, 102-130	3.7	5
23	Modeling the Response of Turbulent Flames to Harmonic Forcing. <i>Combustion Science and Technology</i> , <b>2017</b> , 189, 187-212	1.5	4
22	Simultaneous High Speed (5 kHz) Fuel-PLIE, OH-PLIF and Stereo PIV Imaging of Pressurized Swirl-Stabilized Flames using Liquid Fuels <b>2017</b> ,		6
21	Axial Evolution of Helical Flame and Flow Disturbances in a Transversely Forced Combustor <b>2017</b> ,		1
20	Turbulence effects on the chemical pathways for premixed Methane/Air flames <b>2017</b> ,		2
19	Effect of axial diffusion on the response of diffusion flames to axial flow perturbations. <i>Combustion and Flame</i> , <b>2016</b> , 167, 395-408	5.3	15

18	Structure of hydrogen-rich transverse jets in a vitiated turbulent flow. <i>Combustion and Flame</i> , <b>2015</b> , 162, 1234-1248	5.3	28
17	Stability Analysis of Reacting Wakes: Flow and Density Asymmetry Effects <b>2015</b> ,		3
16	Sound Generation from Swirling, Premixed Flames Excited by Helical Flow Disturbances. <i>Combustion Science and Technology</i> , <b>2015</b> , 187, 206-229	1.5	2
15	Time-averaged characteristics of a reacting fuel jet in vitiated cross-flow. <i>Combustion and Flame</i> , <b>2014</b> , 161, 1792-1803	5.3	52
14	Analysis of flamelet leading point dynamics in an inhomogeneous flow. <i>Combustion and Flame</i> , <b>2014</b> , 161, 1337-1347	5.3	14
13	Turbulent Consumption Speeds of High Hydrogen Content Fuels From 100 atm. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2014</b> , 136,	1.7	23
12	Role of Azimuthal Flow Fluctuations on Flow Dynamics and Global Flame Response of Axisymmetric Swirling Flames <b>2014</b> ,		2
11	Experiments and modeling of propane combustion with vitiation. <i>Combustion and Flame</i> , <b>2014</b> , 161, 2038-2053	5.3	36
10	Stability Analysis of Reacting Wakes: The Physical Role of Flame-Shear Layer Offset <b>2014</b> ,		2
9	Exact statistics for linear time delayed oscillators subjected to Gaussian excitation. <i>Journal of Sound and Vibration</i> , <b>2013</b> , 332, 5929-5938	3.9	5
8	Unsteady flame-wall interactions in a reacting jet injected into a vitiated cross-flow. <i>Proceedings of the Combustion Institute</i> , <b>2013</b> , 34, 3203-3210	5.9	10
7	Unsteady Combustor Physics <b>2012</b> ,		208
6	Pressure Effects on the Turbulent Consumption Speeds of High H2 Mixtures <b>2012</b> ,		2
5	Methane Oxy-Combustion for Low CO2 Cycles: Measurements and Modeling of CO and O2 Emissions <b>2010</b> ,		2
4	Methane Oxy-Combustion for Low CO2 Cycles: Blowoff Measurements and Modeling <b>2010</b> ,		2
3	Global Turbulent Consumption Speeds (ST,GC) Of H2/CO Blends <b>2009</b> ,		1
2	Combustion Instabilities In Gas Turbine Engines <b>2006</b> ,		169
1	Propagation of Sound in Inhomogeneous Media: Exact, Transient Solutions in Curvilinear Geometries. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2003</b> , 125, 133-136	1.6	9

