

James R Dawson

List of Publications by Citations

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50
papers

1,093
citations

19
h-index

32
g-index

57
ext. papers

1,403
ext. citations

4
avg, IF

5.08
L-index

#	Paper	IF	Citations
50	Modal dynamics of self-excited azimuthal instabilities in an annular combustion chamber. <i>Combustion and Flame</i> , 2013 , 160, 2476-2489	5.3	136
49	Measurements in turbulent premixed bluff body flames close to blow-off. <i>Combustion and Flame</i> , 2012 , 159, 2589-2607	5.3	110
48	Self-excited circumferential instabilities in a model annular gas turbine combustor: Global flame dynamics. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 3127-3134	5.9	99
47	Tomographic reconstruction of OH* chemiluminescence in two interacting turbulent flames. <i>Measurement Science and Technology</i> , 2013 , 24, 024013	2	68
46	Flame dynamics and unsteady heat release rate of self-excited azimuthal modes in an annular combustor. <i>Combustion and Flame</i> , 2014 , 161, 2565-2578	5.3	63
45	Visualization of blow-off events in bluff-body stabilized turbulent premixed flames. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1559-1566	5.9	63
44	Cinematographic OH-PLIF measurements of two interacting turbulent premixed flames with and without acoustic forcing. <i>Combustion and Flame</i> , 2012 , 159, 1109-1126	5.3	47
43	Entrainment at multi-scales across the turbulent/non-turbulent interface in an axisymmetric jet. <i>Journal of Fluid Mechanics</i> , 2016 , 802, 690-725	3.7	41
42	On velocity gradient dynamics and turbulent structure. <i>Journal of Fluid Mechanics</i> , 2015 , 780, 60-98	3.7	31
41	Scaling and prediction of transfer functions in lean premixed H ₂ /CH ₄ -flames. <i>Combustion and Flame</i> , 2020 , 215, 269-282	5.3	28
40	Sensitivity of LES-based harmonic flame response model for turbulent swirled flames and impact on the stability of azimuthal modes. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 3355-3363	5.9	27
39	Effect of equivalence ratio on the modal dynamics of azimuthal combustion instabilities. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 3743-3751	5.9	27
38	The effect of baffles on self-excited azimuthal modes in an annular combustor. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 3283-3290	5.9	24
37	The formation of turbulent vortex rings by synthetic jets. <i>Physics of Fluids</i> , 2013 , 25, 105113	4.4	24
36	THE EFFECT OF COMBUSTION INSTABILITY ON THE STRUCTURE OF RECIRCULATION ZONES IN CONFINED SWIRLING FLAMES. <i>Combustion Science and Technology</i> , 2005 , 177, 2349-2371	1.5	23
35	The formation of vortex rings in a strongly forced round jet. <i>Experiments in Fluids</i> , 2012 , 52, 729-742	2.5	22
34	Azimuthally forced flames in an annular combustor. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 3783-3790	5.9	22

33	A scanning PIV method for fine-scale turbulence measurements. <i>Experiments in Fluids</i> , 2014 , 55, 1	2.5	22
32	2D PIV measurements in the near field of grid turbulence using stitched fields from multiple cameras. <i>Experiments in Fluids</i> , 2012 , 52, 1611-1627	2.5	19
31	Characteristics of self-excited spinning azimuthal modes in an annular combustor with turbulent premixed bluff-body flames. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 5129-5136	5.9	17
30	Invariants of the reduced velocity gradient tensor in turbulent flows. <i>Journal of Fluid Mechanics</i> , 2013 , 716, 597-615	3.7	17
29	Characterisation of flame surface annihilation events in self excited interacting flames. <i>Combustion and Flame</i> , 2019 , 199, 338-351	5.3	16
28	Experiments and Large-Eddy Simulations of acoustically forced bluff-body flows. <i>International Journal of Heat and Fluid Flow</i> , 2010 , 31, 754-766	2.4	15
27	On the drag of turbulent vortex rings. <i>Journal of Fluid Mechanics</i> , 2012 , 709, 85-105	3.7	12
26	The effect of hydrogen addition on the amplitude and harmonic response of azimuthal instabilities in a pressurized annular combustor. <i>Combustion and Flame</i> , 2021 , 228, 375-387	5.3	12
25	An experimental study of a turbulent vortex ring: a three-dimensional representation. <i>Experiments in Fluids</i> , 2011 , 51, 1493-1507	2.5	11
24	Kinematics of local entrainment and detrainment in a turbulent jet. <i>Journal of Fluid Mechanics</i> , 2019 , 871, 896-924	3.7	10
23	The multi-scale geometry of the near field in an axisymmetric jet. <i>Journal of Fluid Mechanics</i> , 2018 , 838, 501-515	3.7	7
22	Low-Frequency Combustion Oscillations in a Swirl Burner/Furnace. <i>Journal of Propulsion and Power</i> , 2006 , 22, 217-221	1.8	7
21	The effect of dynamic operating conditions on the thermoacoustic response of hydrogen rich flames in an annular combustor. <i>Combustion and Flame</i> , 2021 , 223, 284-294	5.3	7
20	Influence of the quiescent core on tracer spheroidal particle dynamics in turbulent channel flow. <i>Journal of Turbulence</i> , 2019 , 20, 424-438	2.1	6
19	Pressure/Heat release measurements during start-up conditions in a pulse combustor. <i>Proceedings of the Combustion Institute</i> , 2005 , 30, 1815-1822	5.9	5
18	Direct assessment of Kolmogorov's first refined similarity hypothesis. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	5
17	Experiments and low-order modelling of intermittent transitions between clockwise and anticlockwise spinning thermoacoustic modes in annular combustors. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 5943-5951	5.9	5
16	A laser sheet self-calibration method for scanning PIV. <i>Experiments in Fluids</i> , 2017 , 58, 1	2.5	4

15	The inter-scale energy budget in a von Kármán mixing flow. <i>Journal of Fluid Mechanics</i> , 2020 , 895,	3.7	4
14	A scanning particle tracking velocimetry technique for high-Reynolds number turbulent flows. <i>Experiments in Fluids</i> , 2019 , 60, 1	2.5	4
13	Primary Pollutant Prediction from Integrated Thermo-fluid-Kinetic Pulse Combustor Models. <i>Journal of Propulsion and Power</i> , 2005 , 21, 1092-1097	1.8	4
12	Flame dynamics of azimuthal forced spinning and standing modes in an annular combustor. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 5113-5120	5.9	4
11	Acoustic-Convective Interference in Transfer Functions of Methane/Hydrogen and Pure Hydrogen Flames. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021 ,	1.7	4
10	Visualisation of blow-off events of two interacting turbulent premixed flames 2013 ,		3
9	Tailoring the gain and phase of the flame transfer function through targeted convective-acoustic interference. <i>Combustion and Flame</i> , 2022 , 236, 111813	5.3	3
8	Vortex dynamics of a jet at the pressure node in a standing wave. <i>Journal of Fluid Mechanics</i> , 2020 , 882,	3.7	3
7	Imperfect symmetry of real annular combustors: beating thermoacoustic modes and heteroclinic orbits. <i>Journal of Fluid Mechanics</i> , 2021 , 925,	3.7	3
6	Flame and Flow Dynamics of a Self-Excited, Standing Wave Circumferential Instability in a Model Annular Gas Turbine Combustor 2013 ,		2
5	The response of an axisymmetric jet placed at various positions in a standing wave. <i>Journal of Fluid Mechanics</i> , 2021 , 917,	3.7	2
4	Self-excited longitudinal and azimuthal modes in a pressurised annular combustor. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 5997-6004	5.9	2
3	The effect of hydrogen enrichment, flame-flame interaction, confinement, and asymmetry on the acoustic response of a model can combustor. <i>Combustion and Flame</i> , 2022 , 242, 112176	5.3	0
2	Experimental study of homogenisation in grid turbulence. <i>Journal of Physics: Conference Series</i> , 2011 , 318, 032041	0.3	
1	Large volume scanning laser induced fluorescence measurement of a bluff-body stabilised flame in an annular combustor.. <i>Experiments in Fluids</i> , 2022 , 63, 62	2.5	