

# Nicholas A Worth

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,177  
citations

471509  
17  
h-index

377865  
34  
g-index

40  
all docs

40  
docs citations

40  
times ranked

640  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modal dynamics of self-excited azimuthal instabilities in an annular combustion chamber. Combustion and Flame, 2013, 160, 2476-2489.	5.2	179
2	Self-excited circumferential instabilities in a model annular gas turbine combustor: Global flame dynamics. Proceedings of the Combustion Institute, 2013, 34, 3127-3134.	3.9	127
3	Tomographic reconstruction of OH* chemiluminescence in two interacting turbulent flames. Measurement Science and Technology, 2013, 24, 024013.	2.6	89
4	Synthesis and stability of xenon oxides Xe2O5 and Xe3O2 under pressure. Nature Chemistry, 2016, 8, 784-790.	13.6	89
5	Flame dynamics and unsteady heat release rate of self-excited azimuthal modes in an annular combustor. Combustion and Flame, 2014, 161, 2565-2578.	5.2	88
6	Cinematographic OH-PLIF measurements of two interacting turbulent premixed flames with and without acoustic forcing. Combustion and Flame, 2012, 159, 1109-1126.	5.2	72
7	Experimental and Numerical Investigation into the Propagation of Entropy Waves. AIAA Journal, 2017, 55, 446-458.	2.6	54
8	Scaling and prediction of transfer functions in lean premixed H2/CH4-flames. Combustion and Flame, 2020, 215, 269-282.	5.2	49
9	Effect of equivalence ratio on the modal dynamics of azimuthal combustion instabilities. Proceedings of the Combustion Institute, 2017, 36, 3743-3751.	3.9	42
10	Sensitivity of LES-based harmonic flame response model for turbulent swirled flames and impact on the stability of azimuthal modes. Proceedings of the Combustion Institute, 2015, 35, 3355-3363.	3.9	34
11	The effect of baffles on self-excited azimuthal modes in an annular combustor. Proceedings of the Combustion Institute, 2015, 35, 3283-3290.	3.9	33
12	The effect of hydrogen addition on the amplitude and harmonic response of azimuthal instabilities in a pressurized annular combustor. Combustion and Flame, 2021, 228, 375-387.	5.2	31
13	Azimuthally forced flames in an annular combustor. Proceedings of the Combustion Institute, 2017, 36, 3783-3790.	3.9	28
14	Characteristics of self-excited spinning azimuthal modes in an annular combustor with turbulent premixed bluff-body flames. Proceedings of the Combustion Institute, 2019, 37, 5129-5136.	3.9	26
15	Large eddy simulation of CH4-air and C2H4-air combustion in a model annular gas turbine combustor. Proceedings of the Combustion Institute, 2019, 37, 5223-5231.	3.9	23
16	Thin Shear Layer Structures in High Reynolds Number Turbulence. Flow, Turbulence and Combustion, 2014, 92, 607-649.	2.6	20
17	Characterisation of flame surface annihilation events in self excited interacting flames. Combustion and Flame, 2019, 199, 338-351.	5.2	20
18	Self-excited longitudinal and azimuthal modes in a pressurised annular combustor. Proceedings of the Combustion Institute, 2021, 38, 5997-6004.	3.9	15

#	ARTICLE	IF	CITATIONS
19	Tailoring the gain and phase of the flame transfer function through targeted convective-acoustic interference. <i>Combustion and Flame</i> , 2022, 236, 111813.	5.2	15
20	The inter-scale energy budget in a von Kármán mixing flow. <i>Journal of Fluid Mechanics</i> , 2020, 895, .	3.4	14
21	Flame Transfer Functions and Dynamics of a Closely Confined Premixed Bluff Body Stabilized Flame With Swirl. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, 143, .	1.1	14
22	Simulation of an impinging jet in a crossflow using a Reynolds stress transport model. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 52, 199-211.	1.6	13
23	Flame dynamics of azimuthal forced spinning and standing modes in an annular combustor. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 5113-5120.	3.9	13
24	A comparison of lab-scale free rotating wind turbines and actuator disks. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 209, 104485.	3.9	11
25	Acoustic-Convective Interference in Transfer Functions of Methane/Hydrogen and Pure Hydrogen Flames. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, 143, .	1.1	11
26	Direct assessment of Kolmogorov's first refined similarity hypothesis. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	9
27	Vortex dynamics of a jet at the pressure node in a standing wave. <i>Journal of Fluid Mechanics</i> , 2020, 882, .	3.4	7
28	Symmetry breaking modelling for azimuthal combustion dynamics. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5953-5962.	3.9	7
29	Azimuthal flame response and symmetry breaking in a forced annular combustor. <i>Combustion and Flame</i> , 2021, 233, 111565.	5.2	6
30	Heat release rate response of azimuthal thermoacoustic instabilities in a pressurized annular combustor with methane/hydrogen flames. <i>Combustion and Flame</i> , 2022, 244, 112274.	5.2	6
31	Flame and Flow Dynamics of a Self-Excited, Standing Wave Circumferential Instability in a Model Annular Gas Turbine Combustor. , 2013, , .		5
32	A scanning particle tracking velocimetry technique for high-Reynolds number turbulent flows. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	5
33	Asynchronous and synchronous quenching of a globally unstable jet via axisymmetry breaking. <i>Journal of Fluid Mechanics</i> , 2022, 937, .	3.4	5
34	Visualisation of blow-off events of two interacting turbulent premixed flames. , 2013, , .		4
35	A laser sheet self-calibration method for scanning PIV. <i>Experiments in Fluids</i> , 2017, 58, 1.	2.4	4
36	Transient Thermo-Acoustic Responses of Methane/Hydrogen Flames in a Pressurized Annular Combustor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2022, 144, .	1.1	4

#	ARTICLE	IF	CITATIONS
37	The response of an axisymmetric jet placed at various positions in a standing wave. Journal of Fluid Mechanics, 2021, 917, .	3.4	3
38	Experimental Study of Damper Position on Instabilities in an Annular Combustor. , 2018, , .		2
39	Response of two acoustically excited turbulent premixed flames to an imposed phase lag. , 2012, , .		0
40	Large volume scanning laser induced fluorescence measurement of a bluff-body stabilised flame in an annular combustor. Experiments in Fluids, 2022, 63, 62.	2.4	0