

Nicholas A Worth

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5786447/publications.pdf>

Version: 2024-02-01

40
papers

1,177
citations

535685

17
h-index

425179

34
g-index

40
all docs

40
docs citations

40
times ranked

736
citing authors

#	ARTICLE	IF	CITATIONS
1	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, .	0.5	4
2	Tailoring the gain and phase of the flame transfer function through targeted convective-acoustic interference. <i>Combustion and Flame</i> , 2022, 236, 111813.	2.8	15
3	Asynchronous and synchronous quenching of a globally unstable jet via axisymmetry breaking. <i>Journal of Fluid Mechanics</i> , 2022, 937, .	1.4	5
4	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.	1.1	0
5	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.	2.8	6
6	Self-excited longitudinal and azimuthal modes in a pressurised annular combustor. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5997-6004.	2.4	15
7	Symmetry breaking modelling for azimuthal combustion dynamics. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5953-5962.	2.4	7
8	A comparison of lab-scale free rotating wind turbines and actuator disks. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 209, 104485.	1.7	11
9	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, .	0.5	14
10	The response of an axisymmetric jet placed at various positions in a standing wave. <i>Journal of Fluid Mechanics</i> , 2021, 917, .	1.4	3
11	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.	2.8	31
12	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, .	0.5	11
13	Azimuthal flame response and symmetry breaking in a forced annular combustor. <i>Combustion and Flame</i> , 2021, 233, 111565.	2.8	6
14	Vortex dynamics of a jet at the pressure node in a standing wave. <i>Journal of Fluid Mechanics</i> , 2020, 882, .	1.4	7
15	The inter-scale energy budget in a von Kármán mixing flow. <i>Journal of Fluid Mechanics</i> , 2020, 895, .	1.4	14
16	Scaling and prediction of transfer functions in lean premixed H ₂ /CH ₄ -flames. <i>Combustion and Flame</i> , 2020, 215, 269-282.	2.8	49
17	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.	2.4	26
18	A scanning particle tracking velocimetry technique for high-Reynolds number turbulent flows. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	5

#	ARTICLE	IF	CITATIONS
19	Large eddy simulation of CH ₄ -air and C ₂ H ₄ -air combustion in a model annular gas turbine combustor. Proceedings of the Combustion Institute, 2019, 37, 5223-5231.	2.4	23
20	Characterisation of flame surface annihilation events in self excited interacting flames. Combustion and Flame, 2019, 199, 338-351.	2.8	20
21	Flame dynamics of azimuthal forced spinning and standing modes in an annular combustor. Proceedings of the Combustion Institute, 2019, 37, 5113-5120.	2.4	13
22	Direct assessment of Kolmogorov's first refined similarity hypothesis. Physical Review Fluids, 2019, 4, .	1.0	9
23	Experimental Study of Damper Position on Instabilities in an Annular Combustor. , 2018, , .		2
24	A laser sheet self-calibration method for scanning PIV. Experiments in Fluids, 2017, 58, 1.	1.1	4
25	Experimental and Numerical Investigation into the Propagation of Entropy Waves. AIAA Journal, 2017, 55, 446-458.	1.5	54
26	Azimuthally forced flames in an annular combustor. Proceedings of the Combustion Institute, 2017, 36, 3783-3790.	2.4	28
27	Effect of equivalence ratio on the modal dynamics of azimuthal combustion instabilities. Proceedings of the Combustion Institute, 2017, 36, 3743-3751.	2.4	42
28	Synthesis and stability of xenon oxides Xe ₂ O ₅ and Xe ₃ O ₂ under pressure. Nature Chemistry, 2016, 8, 784-790.	6.6	89
29	The effect of baffles on self-excited azimuthal modes in an annular combustor. Proceedings of the Combustion Institute, 2015, 35, 3283-3290.	2.4	33
30	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.	2.4	34
31	Flame dynamics and unsteady heat release rate of self-excited azimuthal modes in an annular combustor. Combustion and Flame, 2014, 161, 2565-2578.	2.8	88
32	Thin Shear Layer Structures in High Reynolds Number Turbulence. Flow, Turbulence and Combustion, 2014, 92, 607-649.	1.4	20
33	Modal dynamics of self-excited azimuthal instabilities in an annular combustion chamber. Combustion and Flame, 2013, 160, 2476-2489.	2.8	179
34	Self-excited circumferential instabilities in a model annular gas turbine combustor: Global flame dynamics. Proceedings of the Combustion Institute, 2013, 34, 3127-3134.	2.4	127
35	Tomographic reconstruction of OH* chemiluminescence in two interacting turbulent flames. Measurement Science and Technology, 2013, 24, 024013.	1.4	89
36	Visualisation of blow-off events of two interacting turbulent premixed flames. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
37	Flame and Flow Dynamics of a Self-Excited, Standing Wave Circumferential Instability in a Model Annular Gas Turbine Combustor. , 2013, , .		5
38	Cinematographic OH-PLIF measurements of two interacting turbulent premixed flames with and without acoustic forcing. Combustion and Flame, 2012, 159, 1109-1126.	2.8	72
39	Response of two acoustically excited turbulent premixed flames to an imposed phase lag. , 2012, , .		0
40	Simulation of an impinging jet in a crossflow using a Reynolds stress transport model. International Journal for Numerical Methods in Fluids, 2006, 52, 199-211.	0.9	13