

Jacqueline O'Connor

List of Publications by Year in descending order

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64
papers

1,498
citations

567281

15
h-index

395702

33
g-index

64
all docs

64
docs citations

64
times ranked

785
citing authors

#	ARTICLE	IF	CITATIONS
1	Transverse combustion instabilities: Acoustic, fluid mechanic, and flame processes. Progress in Energy and Combustion Science, 2015, 49, 1-39.	31.2	275
2	Post Injections for Soot Reduction in Diesel Engines: A Review of Current Understanding. SAE International Journal of Engines, 0, 6, 400-421.	0.4	124
3	Density ratio effects on reacting bluff-body flow field characteristics. Journal of Fluid Mechanics, 2012, 706, 219-250.	3.4	122
4	Disturbance Field Characteristics of a Transversely Excited Burner. Combustion Science and Technology, 2011, 183, 427-443.	2.3	96
5	Recirculation zone dynamics of a transversely excited swirl flow and flame. Physics of Fluids, 2012, 24, .	4.0	94
6	Strain Characteristics Near the Flame Attachment Point in a Swirling Flow. Combustion Science and Technology, 2011, 183, 665-685.	2.3	58
7	Transverse to Longitudinal Acoustic Coupling Processes in Annular Combustion Chambers. International Journal of Spray and Combustion Dynamics, 2012, 4, 275-297.	1.0	57
8	In-Cylinder Mechanisms of Soot Reduction by Close-Coupled Post-Injections as Revealed by Imaging of Soot Luminosity and Planar Laser-Induced Soot Incandescence in a Heavy-Duty Diesel Engine. SAE International Journal of Engines, 0, 7, 673-693.	0.4	48
9	Effect of post injections on mixture preparation and unburned hydrocarbon emissions in a heavy-duty diesel engine. Combustion and Flame, 2016, 170, 111-123.	5.2	43
10	Effects of exhaust gas recirculation and load on soot in a heavy-duty optical diesel engine with close-coupled post injections for high-efficiency combustion phasing. International Journal of Engine Research, 2014, 15, 421-443.	2.3	42
11	A weakly nonlinear analysis of the precessing vortex core oscillation in a variable swirl turbulent round jet. Journal of Fluid Mechanics, 2020, 884, .	3.4	41
12	Optical Investigation of the Reduction of Unburned Hydrocarbons Using Close-Coupled Post Injections at LTC Conditions in a Heavy-Duty Diesel Engine. SAE International Journal of Engines, 0, 6, 379-399.	0.4	35
13	A CFD Study of Post Injection Influences on Soot Formation and Oxidation under Diesel-Like Operating Conditions. SAE International Journal of Engines, 0, 7, 694-713.	0.4	34
14	Effect of fuel composition on soot and aromatic species distributions in laminar, co-flow flames. Part 1. Non-premixed fuel. Combustion and Flame, 2018, 189, 443-455.	5.2	31
15	The Effect of Fuel Staging on the Structure and Instability Characteristics of Swirl-Stabilized Flames in a Lean Premixed Multinozzle Can Combustor. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	28
16	Further Characterization of the Disturbance Field in a Transversely Excited Swirl-Stabilized Flame. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	26
17	The effect of variable fuel staging transients on self-excited instabilities in a multiple-nozzle combustor. Combustion and Flame, 2018, 194, 472-484.	5.2	24
18	Statistics and topology of local flame-flame interactions in turbulent flames. Combustion and Flame, 2019, 203, 92-104.	5.2	18

#	ARTICLE	IF	CITATIONS
19	Pocket formation and behavior in turbulent premixed flames. <i>Combustion and Flame</i> , 2020, 211, 312-324.	5.2	17
20	Effect of Load on Close-Coupled Post-Injection Efficacy for Soot Reduction in an Optical Heavy-Duty Diesel Research Engine. <i>Journal of Engineering for Gas Turbines and Power</i> , 2014, 136, .	1.1	16
21	Optimization of an Advanced Combustion Strategy Towards 55% BTE for the Volvo SuperTruck Program. <i>SAE International Journal of Engines</i> , 0, 10, 1217-1227.	0.4	16
22	Effect of aromatic fuels and premixing on aromatic species and soot distributions in laminar, co-flow flames at atmospheric pressure. <i>Combustion and Flame</i> , 2018, 194, 164-174.	5.2	16
23	Experimental Study of Post Injection Scheduling for Soot Reduction in a Light-Duty Turbodiesel Engine. , 0, , .		15
24	Visualization of Shear Layer Dynamics in a Transversely Forced Flow and Flame. <i>Journal of Propulsion and Power</i> , 2015, 31, 1127-1136.	2.2	14
25	Further Characterization of the Disturbance Field in a Transversely Excited Swirl-Stabilized Flame. , 2011, , .		13
26	Guidelines for Interpreting Soot Luminosity Imaging. <i>SAE International Journal of Engines</i> , 0, 10, 1174-1192.	0.4	12
27	Effect of Hydrogen on Steady-State and Transient Combustion Instability Characteristics. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, 143, .	1.1	12
28	The role of flow interaction in flame–flame interaction events in a dual burner experiment. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2485-2491.	3.9	11
29	Energy Use for Electricity Generation Requires an Assessment More Directly Relevant to Climate Change. <i>ACS Energy Letters</i> , 2020, 5, 3514-3517.	17.4	10
30	Data-driven Detection and Early Prediction of Thermoacoustic Instability in a Multi-nozzle Combustor. <i>Combustion Science and Technology</i> , 2022, 194, 1481-1512.	2.3	10
31	Disturbance Field Characteristics of a Transversely Excited Annular Jet. , 2010, , .		9
32	The Effects of Injection Timing and Duration on Jet Penetration and Mixing in Multiple-Injection Schedules. , 2016, , .		9
33	The Effect of Fuel Staging on the Structure and Instability Characteristics of Swirl-Stabilized Flames in a Lean Premixed Multi-Nozzle Can Combustor. , 2017, , .		9
34	Effect of fuel composition on soot and aromatic species distributions in laminar, co-flow flames. Part 2. Partially-premixed fuel. <i>Combustion and Flame</i> , 2018, 189, 456-471.	5.2	9
35	Impact of turbulence on the coherent flame dynamics in a bluff-body stabilized flame. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3067-3075.	3.9	9
36	Combustor Dilution Hole Placement and Its Effect on the Turbine Inlet Flowfield. <i>Journal of Propulsion and Power</i> , 2017, 33, 750-763.	2.2	8

#	ARTICLE	IF	CITATIONS
37	Impact of Swirling Flow Structure on Shear Layer Vorticity Fluctuation Mechanisms. , 2016, , .		7
38	Experimental and numerical investigation of effects of premixing on soot processes in iso-octane co-flow flames. Proceedings of the Combustion Institute, 2019, 37, 1031-1039.	3.9	6
39	Towards a method of estimating out-of-plane effects on measurements of turbulent flame dynamics. Combustion and Flame, 2020, 216, 206-222.	5.2	6
40	Frequency Locking and Vortex Dynamics of an Acoustically Excited Bluff Body Stabilized Flame. , 2012, , .		5
41	Flame and Flow Dynamics of a Self-Excited, Standing Wave Circumferential Instability in a Model Annular Gas Turbine Combustor. , 2013, , .		5
42	Applying Advanced CFD Analysis Tools to Study Differences between Start-of-Main and Start-of-Post Injection Flow, Temperature and Chemistry Fields Due to Combustion of Main-Injected Fuel. SAE International Journal of Engines, 2015, 8, 2159-2176.	0.4	5
43	The Effect of Transient Fuel Staging on Self-Excited Instabilities in a Multi-Nozzle Model Gas Turbine Combustor. , 2017, , .		5
44	Flame Leading Edge and Flow Dynamics in a Swirling, Lifted Flame. , 2012, , .		4
45	Influence of Transverse Acoustic Modal Structure on the Forced Response of a Swirling Nozzle Flow. , 2012, , .		4
46	Disturbance-Field Decomposition in a Transversely Forced Swirl Flow and Flame. Journal of Propulsion and Power, 2017, 33, 764-775.	2.2	4
47	Flame Edge Dynamics and Interaction in a Multinozzle Can Combustor With Fuel Staging. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	4
48	Impact of PVC Dynamics on Shear Layer Response in a Swirling Jet. , 2017, , .		3
49	Effects of Fuel Molecular Weight on Emissions in a Jet Flame and a Model Gas Turbine Combustor. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	3
50	Cluster-Based Reduced-Order Modeling to Capture Intermittent Dynamics of Interacting Wakes. AIAA Journal, 2019, 57, 2819-2827.	2.6	3
51	Relative Effects of Velocity- and Mixture-Coupling in a Thermoacoustically Unstable, Partially Premixed Flame. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	1.1	3
52	Linear control of thermoacoustic oscillations with flame dynamics modeled by a level-set method. Combustion and Flame, 2022, 237, 111686.	5.2	3
53	Response of an Annular Burner Nozzle to Transverse Acoustic Excitation. , 2010, , .		2
54	Convective and Absolute Instabilities in Reacting Bluff Body Wakes. , 2011, , .		2

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55	Development of a Flame Transfer Function Framework for Transversely Forced Flames. , 2013, , .		2
56	Impact of Flow Non-Axisymmetry on Swirling Flow Dynamics and Receptivity to Acoustics. , 2015, , .		2
57	Development and Verification of Reduced-Order Model for Diesel Spray Penetration and Spreading during Wall Impingement. , 0, , .		2
58	Optimizing the Design of a Rijke Tube Experiment for Combustion Stability Model Identifiability. , 2019, , .		2
59	Impact of Sensor Placement on Mode Observability and LQG Control of a Thermoacoustic System. IFAC-PapersOnLine, 2020, 53, 4214-4221.	0.9	2
60	Effects of Fuel Molecular Weight on Emissions in a Jet Flame and a Model Gas Turbine Combustor. , 2017, , .		1
61	The Effect of the Degree of Premixedness on Self-Excited Combustion Instability. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	1
62	Describing the Mechanism of Instability Suppression Using a Central Pilot Flame With Coupled Experiments and Simulations. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	1.1	1
63	Optimizing Thermoacoustic Characterization Experiments for Identifiability Improves Both Parameter Estimation Accuracy and Closed-Loop Controller Robustness Guarantees. Combustion Science and Technology, 0, , 1-26.	2.3	0
64	Heat Release Rate Estimation Using Multiple Non-Minimum Phase Sensor Measurements in a One-dimensional Combustor. IFAC-PapersOnLine, 2021, 54, 723-728.	0.9	0