

Adam M Steinberg

List of Publications by Year in descending order

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81
papers

2,079
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257450

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all docs

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docs citations

81
times ranked

929
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Machine Learning to Construct Velocity Fields from OH-PLIF Images. <i>Combustion Science and Technology</i> , 2022, 194, 93-116.	2.3	23
2	Experimental Characterization of a Lean Prevaporized Premixed Combustor for Supersonic Transport Applications. , 2022, , .		0
3	Megahertz-rate background-oriented schlieren tomography in post-detonation blasts. <i>Applied Optics</i> , 2022, 61, 2444.	1.8	10
4	Flame- and flow-conditioned vorticity transport in premixed swirl combustion. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2949-2956.	3.9	15
5	Cross-frequency coupling during thermoacoustic oscillations in a pressurized aeronautical gas turbine model combustor. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6105-6113.	3.9	8
6	Attached and lifted flame stabilization in a linear array of swirl injectors. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6279-6287.	3.9	6
7	Extracting information overlap in simultaneous OH-PLIF and PIV fields with neural networks. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6241-6249.	3.9	11
8	Bayesian Optimization of a TDLAS Array for Mass Capture Measurement. , 2021, , .		2
9	Bayesian framework for THz-TDS plasma diagnostics. <i>Optics Express</i> , 2021, 29, 4887.	3.4	5
10	A functional error analysis of differential optical flow methods. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	1
11	Noninvasive THz-TDS measurements of plasma bounded and optically shielded by Hall thruster wall material. <i>Plasma Sources Science and Technology</i> , 2021, 30, 075027.	3.1	1
12	Physical space analysis of cross-scale turbulent kinetic energy transfer in premixed swirl flames. <i>Combustion and Flame</i> , 2021, 229, 111403.	5.2	11
13	Structure and dynamics of highly turbulent premixed combustion. <i>Progress in Energy and Combustion Science</i> , 2021, 85, 100900.	31.2	52
14	Experimental Analysis of Conditional Kinetic Energy Transfer Between Scales in Swirl Flames. , 2021, , .		1
15	Flame Extinction and Re-Ignition in a Swirl Stabilized Prevaporized Liquid Fuel Flame Close to Lean Blow-Out. , 2020, , .		4
16	Data-Driven Reduction and Decomposition via Time-Axis Clustering. , 2020, , .		3
17	Statistics and Dynamics of Intermittent Boundary Layer Flashback in Swirl Flames. <i>Journal of Propulsion and Power</i> , 2020, 36, 940-949.	2.2	8
18	Assessment of the Capability of Terahertz Time-Domain Spectroscopy as a Plasma Diagnostic. , 2020, , .		3

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19	Influence of Combustion on Flow-Structures and Cross-Frequency Coupling in a Pressurized Gas Turbine Model Combustor. , 2020, , .		0
20	Experimental Measurement of Cross-Scale Kinetic Energy Transfer in Premixed Swirl Flames. , 2020, , .		1
21	Effect of Internozzle Spacing on Lean Blow-Off of a Linear Multinozzle Combustor. Journal of Propulsion and Power, 2020, 36, 540-550.	2.2	8
22	Fast and robust volumetric refractive index measurement by unified background-oriented schlieren tomography. Experiments in Fluids, 2020, 61, 1.	2.4	32
23	Linear absorption tomography with velocimetry (LATV) for multiparameter measurements in high-speed flows. Optics Express, 2020, 28, 32676.	3.4	13
24	Tomographic PIV Characterization of the Near field Topology of the Reacting Jet in Crossflow. , 2020, , .		3
25	Enstrophy transport in swirl combustion. Journal of Fluid Mechanics, 2019, 876, 715-732.	3.4	41
26	Reaction zone stratification in piloted highly-turbulent fuel-lean premixed jets. Combustion and Flame, 2019, 208, 327-329.	5.2	7
27	Soot formation and flame structure in swirl-stabilized turbulent non-premixed methane combustion. Combustion and Flame, 2019, 209, 303-312.	5.2	26
28	Experimental Analysis of Thermoacoustic Oscillations in a Model Aeronautical Gas Turbine Combustor at Realistic Conditions. , 2019, , .		0
29	High Spatial Resolution 3D Fluid Velocimetry by Tomographic Particle Flow Velocimetry. , 2019, , .		2
30	Experimental data-based reduced-order model for analysis and prediction of flame transition in gas turbine combustors. Combustion Theory and Modelling, 2019, 23, 994-1020.	1.9	17
31	Structural response of different Lewis number premixed flames interacting with a toroidal vortex. Proceedings of the Combustion Institute, 2019, 37, 1911-1918.	3.9	5
32	The role of strain rate, local extinction, and hydrodynamic instability on transition between attached and lifted swirl flames. Combustion and Flame, 2019, 199, 267-278.	5.2	34
33	Multi-Scalar Measurements of Premixed Flames in Extreme Turbulence Using Raman/Rayleigh Diagnostics. , 2019, , .		1
34	High Speed Imaging of Flame Structure and Dynamic Processes in Swirl Stabilized Prevaporized Liquid Fuel Flames. , 2019, , .		2
35	Effect of inter-nozzle spacing on lean blowoff performance of a linear multi-nozzle combustor. , 2019, , .		2
36	Blowoff and Reattachment Dynamics of a Linear Multinozzle Combustor. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	7

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37	Auto-ignition of near-ambient temperature H ₂ /air mixtures during flame-vortex interaction. Proceedings of the Combustion Institute, 2019, 37, 2425-2432.	3.9	1
38	Initial Growth and Development of Thermoacoustic Instabilities in a Gas Turbine Combustor. , 2018, , .		0
39	Assessment of chemical scalars for heat release rate measurement in highly turbulent premixed combustion including experimental factors. Combustion and Flame, 2018, 194, 485-506.	5.2	19
40	Reynolds averaged enstrophy transport budgets measured in premixed swirl flames using $\hat{1}/4$ -TPIV.. , 2018, , .		3
41	Influence of Blade Loading Profile on Wake Dynamics in High-Pressure Turbine Cascades. Journal of Turbomachinery, 2018, 140, .	1.7	1
42	Limits and Intermittency of Swirl Flame Lift-Off Copuled with Hydrodynamic Instability. , 2018, , .		0
43	Analysis of intermittent thermoacoustic oscillations in an aeronautical gas turbine combustor. , 2017, , .		4
44	Relationship between local reaction rate and flame structure in turbulent premixed flames from simultaneous 10 kHz TPIV, OH PLIF, and CH ₂ O PLIF. Proceedings of the Combustion Institute, 2017, 36, 1835-1841.	3.9	41
45	Non-stationary local thermoacoustic phase relationships in a gas turbine combustor. Proceedings of the Combustion Institute, 2017, 36, 3873-3880.	3.9	23
46	A Semi-Empirical Time-Lag Model for Predicting Limit-Cycle Thermoacoustic Amplitudes in an Aeronautical Gas Turbine Combustor. , 2017, , .		1
47	Dynamics and mechanisms of pressure, heat release rate, and fuel spray coupling during intermittent thermoacoustic oscillations in a model aeronautical combustor at elevated pressure. Combustion and Flame, 2017, 185, 319-334.	5.2	56
48	Simultaneous 10 kHz TPIV, OH PLIF, and CH ₂ O PLIF measurements of turbulent flame structure and dynamics. Experiments in Fluids, 2016, 57, 1.	2.4	54
49	Coupled dynamics of lift-off and precessing vortex core formation in swirl flames. Combustion and Flame, 2016, 168, 228-239.	5.2	77
50	Development and evaluation of gappy-POD as a data reconstruction technique for noisy PIV measurements in gas turbine combustors. Experiments in Fluids, 2016, 57, 1.	2.4	33
51	Development and evaluation of Gappy-POD for noisy PIV measurements in gas turbine combustors. , 2016, , .		1
52	Influence of combustion on principal strain-rate transport in turbulent premixed flames. Proceedings of the Combustion Institute, 2015, 35, 1287-1294.	3.9	45
53	Formation and flame-induced suppression of the precessing vortex core in a swirl combustor: Experiments and linear stability analysis. Combustion and Flame, 2015, 162, 3100-3114.	5.2	191
54	Experimental analysis of thermo-acoustic instabilities in a generic gas turbine combustor by phase-correlated PIV, chemiluminescence, and laser Raman scattering measurements. Experiments in Fluids, 2015, 56, 1.	2.4	47

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55	Measurement of 3D Rayleigh Index fields in helically-perturbed swirl flames using doubly-phase-conditioned chemiluminescence tomography. , 2015, , .		0
56	Dynamics of Flame Lift-Off in Biogas Swirl Flames. , 2015, , .		0
57	Measurement of local flame speeds in the thickened flamelet regime using simultaneous 10 kHz TPIV and OH/CH ₂ O PLIF. , 2015, , .		0
58	Thermo-acoustic velocity coupling in a swirl stabilized gas turbine model combustor. Combustion and Flame, 2014, 161, 3166-3180.	5.2	64
59	Effect of B ³⁺ -N ³⁺ on YAG:Dy thermographic phosphor luminescence. Optics Letters, 2014, 39, 6166.	3.3	9
60	High-speed tomographic PIV and OH PLIF measurements in turbulent reactive flows. Experiments in Fluids, 2014, 55, 1.	2.4	68
61	Thermo-acoustic Coupling in Swirl-Stabilized Flames with Helical Vortices. , 2013, , .		4
62	Structure and stabilization of hydrogen jet flames in cross-flows. Proceedings of the Combustion Institute, 2013, 34, 1499-1507.	3.9	68
63	Autoignition of hydrogen/nitrogen jets in vitiated air crossflows at different pressures. Proceedings of the Combustion Institute, 2013, 34, 3185-3192.	3.9	40
64	Auto-ignition and flame stabilization of hydrogen/natural gas/nitrogen jets in a vitiated cross-flow at elevated pressure. International Journal of Hydrogen Energy, 2013, 38, 16441-16452.	7.1	22
65	Parametric study of vortex structures and their dynamics in swirl-stabilized combustion. Proceedings of the Combustion Institute, 2013, 34, 3117-3125.	3.9	86
66	Autoignition Limits of Hydrogen at Relevant Reheat Combustor Operating Conditions. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	20
67	Diagnostic requirements for the development of low-emission, fuel-flexible gas turbine combustors. , 2012, , .		0
68	Effects of Flow Structure Dynamics on Thermoacoustic Instabilities in Swirl-Stabilized Combustion. AIAA Journal, 2012, 50, 952-967.	2.6	67
69	Investigation of the Syngas Flame Characteristics at Elevated Pressures Using Optical and Laser Diagnostic Methods. Flow, Turbulence and Combustion, 2012, 89, 275-294.	2.6	15
70	Statistics and dynamics of turbulenceâ€œflame alignment in premixed combustion. Combustion and Flame, 2012, 159, 2576-2588.	5.2	38
71	Influence of flow-structure dynamics on thermo-acoustic instabilities in oscillating swirl flames. , 2011, , .		2
72	Experimental study of flame-hole reignition mechanisms in a turbulent non-premixed jet flame using sustained multi-kHz PIV and crossed-plane OH PLIF. Proceedings of the Combustion Institute, 2011, 33, 1663-1672.	3.9	81

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73	Experimental Investigation of a Generic, Fuel Flexible Reheat Combustor at Gas Turbine Relevant Operating Conditions. , 2010, , .		11
74	Flow-flame interactions causing acoustically coupled heat release fluctuations in a thermo-acoustically unstable gas turbine model combustor. Combustion and Flame, 2010, 157, 2250-2266.	5.2	268
75	Stretch-rate relationships for turbulent premixed combustion LES subgrid models measured using temporally resolved diagnostics. Combustion and Flame, 2010, 157, 1422-1435.	5.2	15
76	Flow-Field and Flame Dynamics of a Gas Turbine Model Combustor During Transition Between Thermo-Acoustically Stable and Unstable States. , 2010, , .		17
77	Analysis of Flow-Flame Interactions in a Gas Turbine Model Combustor Under Thermo-Acoustically Stable and Unstable Conditions. , 2010, , .		1
78	Temporal evolution of flame stretch due to turbulence and the hydrodynamic instability. Proceedings of the Combustion Institute, 2009, 32, 1713-1721.	3.9	35
79	Straining and wrinkling processes during turbulence-premixed flame interaction measured using temporally-resolved diagnostics. Combustion and Flame, 2009, 156, 2285-2306.	5.2	75
80	Measurements of turbulent premixed flame dynamics using cinema stereoscopic PIV. Experiments in Fluids, 2008, 44, 985-999.	2.4	109
81	Turbulence-Flame Interactions - The Mechanisms of Flame Strain and Wrinkling. , 2008, , .		2