Yannis Hardalupas

List of Publications by Year
in descending order

45 papers	778 citations	516710 16 h-index	526287 27 g-index
45 all docs	45 docs citations	45 times ranked	654 citing authors

#	Article	IF	Citations
1	Simultaneous planar measurement of droplet velocity and size with gas phase velocities in a spray by combined ILIDS and PIV techniques. Experiments in Fluids, 2010, 49, 417-434.	2.4	90
2	Effect of fuel type on equivalence ratio measurements using chemiluminescence in premixed flames. Comptes Rendus - Mecanique, 2010, 338, 241-254.	2.1	75
3	Collisions of droplets on spherical particles. Physics of Fluids, 2017, 29, .	4.0	61
4	Quantitative Measurement of Planar Droplet Sauter Mean Diameter in Sprays using Planar Droplet Sizing. Particle and Particle Systems Characterization, 2003, 20, 209-218.	2.3	52
5	Spatial distribution of fluorescence intensity within large droplets and its dependence on dye concentration. Applied Optics, 2001, 40, 3586.	2.1	38
6	Proper orthogonal decomposition of primary breakup and spray in co-axial airblast atomizers. Physics of Fluids, 2019, 31, .	4.0	38
7	Injector Fouling and Its Impact on Engine Emissions and Spray Characteristics in Gasoline Direct Injection Engines. SAE International Journal of Fuels and Lubricants, 0, 10, 287-295.	0.2	37
8	Local curvature measurements of a lean, partially premixed swirl-stabilised flame. Experiments in Fluids, 2012, 52, 963-983.	2.4	32
9	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si70.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> enrichment of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si71.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="italic">CH</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>	6.4	32
10	Comparative measurement of the breakup length of liquid jets in airblast atomisers using optical connectivity, electrical connectivity and shadowgraphy. Measurement: Journal of the International Measurement Confederation, 2016, 89, 288-299.	5.0	30
11	Simultaneous Laser-Induced Fluorescence and Mie Scattering for Droplet Cluster Measurements. AIAA Journal, 2003, 41, 2170-2178.	2.6	25
12	Structure of the Continuous Liquid Jet Core during Coaxial Air-Blast Atomisation. International Journal of Spray and Combustion Dynamics, 2009, 1, 389-415.	1.0	25
13	How do liquid fuel physical properties affect liquid jet development in atomisers?. Physics of Fluids, 2016, 28, .	4.0	23
14	Preferential concentration of poly-dispersed droplets in stationary isotropic turbulence. Experiments in Fluids, 2013, 54, 1.	2.4	22
15	Simultaneous droplet and vapour-phase measurements in an evaporative spray by combined ILIDS and PLIF techniques. Experiments in Fluids, 2014, 55, 1.	2.4	22
16	Measurement of molten chocolate friction under simulated tongue-palate kinematics: Effect of cocoa solids content and aeration. Current Research in Food Science, 2020, 3, 304-313.	5.8	21
17	Application of Proper Orthogonal Decomposition to the morphological analysis of confined co-axial jets of immiscible liquids with comparable densities. Physics of Fluids, 2014, 26, .	4.0	18
18	Phase Doppler Anemometer for Measurements of Deterministic Spray Unsteadiness. Particle and Particle Systems Characterization, 2001, 18, 205-215.	2.3	16

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19	Experimental investigation of airâ€“water turbulent swirling flow of relevance to phase separation equipment. International Journal of Multiphase Flow, 2019, 121, 103110.	3.4	16
20	Atomization of impinging opposed water jets interacting with an air jet. Experimental Thermal and Fluid Science, 2018, 93, 11-22.	2.7	15
21	Extinction strain rate suppression of the precessing vortex core in a swirl stabilised combustor and consequences for thermoacoustic oscillations. Combustion and Flame, 2020, 211, 229-252.	5.2	15
22	Chemical species tomographic imaging of the vapour fuel distribution in a compression-ignition engine. International Journal of Engine Research, 2018, 19, 718-731.	2.3	13
23	Laser-induced plasma image velocimetry. Experiments in Fluids, 2019, 60, 1.	2.4	13
24	Two-Phase Characterization for Turbulent Dispersion of Sprays: A Review of Optical Techniques. Energy, Environment, and Sustainability, 2018, , 247-273.	1.0	9
25	Source terms for benchmarking models of SARS-CoV-2 transmission via aerosols and droplets. Royal Society Open Science, 2022, 9, 212022.	2.4	8
26	Evaluation of the topological characteristics of the turbulent flow in a â€˜box of turbulenceâ€™ through 2D time-resolved particle image velocimetry. Experiments in Fluids, 2017, 58, 1.	2.4	6
27	Laser ignition and flame characteristics of pulsed methane jets in homogeneous isotropic turbulence without mean flow. Proceedings of the Combustion Institute, 2017, 36, 1653-1660.	3.9	5
28	Optical Diagnostics Investigation into the Effect of Pilot Injection Dwell Time and Injection Pressure on Combustion Characteristics and Soot Emissions in a Single-Cylinder Optical Diesel Engine. Journal of Energy Engineering - ASCE, 2018, 144, 04018056.	1.9	4
29	Cavitation Bubble Cloud Break-Off Mechanisms at Micro-Channels. Fluids, 2021, 6, 215.	1.7	4
30	A METHOD TO ESTIMATE GAS-DROPLET VELOCITY CROSS-CORRELATIONS IN SPRAYS. Atomization and Sprays, 2003, 13, 23.	0.8	3
31	Experimental and Numerical Study of Chemiluminescence Characteristics in Premixed Counterflow Flames of Methane based Fuel blends. , 2017, , .		2
32	Multiscale analysis of turbulence-flame interaction based on measurements in premixed flames. Combustion and Flame, 2022, 239, 111982.	5.2	2
33	Laser-induced breakdown spectroscopy for local equivalence ratio measurement in opposed jet methane-air flames. Experimental Thermal and Fluid Science, 2022, 136, 110652.	2.7	2
34	Thermoacoustic phenomena in an industrial gas turbine combustor at two different mean pressures. , 2019, , .		1
35	Cross-sectional phase distribution measurement of slug flow in small channels. Experiments in Fluids, 2021, 62, 1.	2.4	1
36	INFLUENCE OF ENERGY EXCHANGE BETWEEN AIR AND LIQUID STREAMS ON SPRAY CHARACTERISTICS AND ATOMIZATION EFFICIENCY OF WATER-AIR IMPINGING JETS. Atomization and Sprays, 2019, 29, 677-707.	0.8	1

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37	Computational fluid dynamics modelling of air entrainment for a plunging jet. Chemical Engineering Research and Design, 2022, 179, 319-330.	5.6	1
38	Laser ignition of methane jets in homogenous and isotropic turbulence. , 2018, , .		0
39	Effects of inert fuel diluents on the dynamic state of a thermoacoustically unstable gas turbine combustor. , 2019, , .		0
40	An experimental study of subcritical transition into thermoacoustic oscillations in a swirl stabilized model gas turbine combustor. , 2020, , .		0
41	Mixing and scalar dissipation rate in a decaying jet. Proceedings of the Combustion Institute, 2021, 38, 3251-3259.	3.9	0
42	Evaluation of Blow-Off Dynamics in Aero-Engine Combustors Using Recurrence Quantification Analysis. , 2021, , .		0
43	Investigation of the effects of fluid properties representation and boundary condition selection in numerical simulations of micro scale flows with phase change. , 0, , .		0
44	Influence of droplet clustering in sprays on liquid deposition rate on spherical targets. , 0, , .		0
45	Effect of liquid viscosity on the aerodynamic breakup of non-spherical droplets. , 0, , .		0