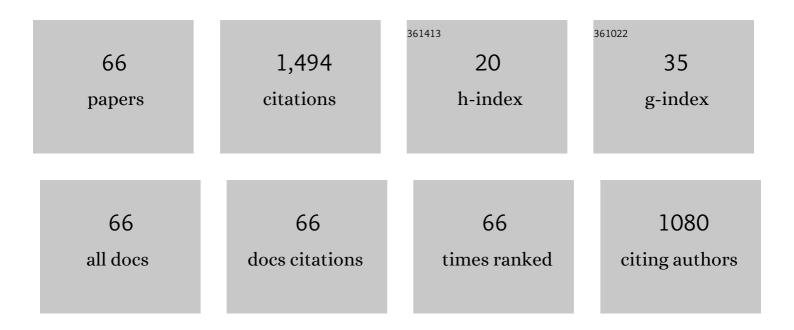


List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A phenomenological model for near-nozzle fluid processes: Identification and qualitative characterisations. Fuel, 2022, 310, 122208.	6.4	4
2	Bioengineering a cryogel-derived bioartificial liver using particle image velocimetry defined fluid dynamics. Materials Science and Engineering C, 2021, 123, 111983.	7.3	3
3	Quantitative characterisations of spray deposited liquid films and post-injection discharge on diesel injectors. Fuel, 2021, 289, 119833.	6.4	10
4	High-Speed Infrared Measurement of Injector Tip Temperature during Diesel Engine Operation. Energies, 2021, 14, 4584.	3.1	4
5	Investigation of the effects of cavitation on near nozzle dynamics in multi-hole gasoline direct injection sprays. , 2021, 1, .		0
6	Quantitative analysis of dribble volumes and rates using three-dimensional reconstruction of X-ray and diffused back-illumination images of diesel sprays. International Journal of Engine Research, 2020, 21, 43-54.	2.3	12
7	2D Titanium Carbide (Ti ₃ C ₂ T <i>_x</i>) in Accommodating Intraocular Lens Design. Advanced Functional Materials, 2020, 30, 2000841.	14.9	26
8	Droplet Impact on Suspended Metallic Meshes: Effects of Wettability, Reynolds and Weber Numbers. Fluids, 2020, 5, 81.	1.7	21
9	Effect of the scale resolution on the two phase coupling characteristics of high speed evaporating sprays using LES / Eulerian-Lagrangian methodologies. International Journal of Multiphase Flow, 2019, 120, 103060.	3.4	8
10	A simple model for puffing/micro-explosions in water-fuel emulsion droplets. International Journal of Heat and Mass Transfer, 2019, 131, 815-821.	4.8	83
11	Temperature measurements under diesel engine conditions using laser induced grating spectroscopy. Combustion and Flame, 2019, 199, 249-257.	5.2	13
12	Change of evaporation rate of single monocomponent droplet with temperature using time-resolved phase rainbow refractometry. Proceedings of the Combustion Institute, 2019, 37, 3211-3218.	3.9	12
13	Simultaneous measurement of monocomponent droplet temperature/refractive index, size and evaporation rate with phase rainbow refractometry. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 214, 146-157.	2.3	24
14	The effect of fuel injection equipment on the dispersed phase of water-in-diesel emulsions. Applied Energy, 2018, 222, 762-771.	10.1	58
15	A mathematical model for heating and evaporation of a multi-component liquid film. International Journal of Heat and Mass Transfer, 2018, 117, 252-260.	4.8	19
16	A model for multi-component droplet heating and evaporation and its implementation into ANSYS Fluent. International Communications in Heat and Mass Transfer, 2018, 90, 29-33.	5.6	29
17	Drop impact onto attached metallic meshes: liquid penetration and spreading. Experiments in Fluids, 2018, 59, 1.	2.4	21
18	The effect of unstable emulsion of water-in-diesel on micro-explosion phenomena. AIP Conference Proceedings, 2018, , .	0.4	5

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#	Article	IF	CITATIONS
19	Investigation of Puffing and Micro-Explosion of Water-in-Diesel Emulsion Spray Using Shadow Imaging. Energies, 2018, 11, 2281.	3.1	32
20	Primary rainbow of high refractive index particle (1.547 <n<2) 2018,="" 237-241.<="" 426,="" communications,="" has="" optics="" refraction="" ripples.="" td=""><td>2.1</td><td>2</td></n<2)>	2.1	2
21	The Effect of Fuel Injection Equipment of Water-In-Diesel Emulsions on Micro-Explosion Behaviour. Energies, 2018, 11, 1650.	3.1	11
22	Fuel Nozzle Geometry Effects on Cavitation and Spray Behavior at Diesel Engine Conditions. , 2018, , 474-480.		6
23	Mathematical modelling of heating and evaporation of a spheroidal droplet. International Journal of Heat and Mass Transfer, 2017, 108, 2181-2190.	4.8	54
24	Puffing and Microexplosion Behavior of Water in Pure Diesel Emulsion Droplets During Leidenfrost Effect. Combustion Science and Technology, 2017, 189, 1186-1197.	2.3	53
25	On the transcritical mixing of fuels at diesel engine conditions. Fuel, 2017, 208, 535-548.	6.4	118
26	Time-resolved gas thermometry by laser-induced grating spectroscopy with a high-repetition rate laser system. Experiments in Fluids, 2017, 58, 1.	2.4	15
27	MODELLING OF HEATING AND EVAPORATION OF SPHEROIDAL DROPLETS. , 2017, , .		0
28	MODELLING OF HEATING AND EVAPORATION OF SPHEROIDAL DROPLETS. , 2017, , .		0
29	A model for droplet heating and its implementation into ANSYS Fluent. International Communications in Heat and Mass Transfer, 2016, 76, 265-270.	5.6	56
30	Designing and Demonstrating a Master Student Project To Explore Carbon Dioxide Capture Technology. Journal of Chemical Education, 2016, 93, 633-638.	2.3	5
31	Aerodynamical phenomena in a large top covered wind mill with vertical axis wind turbine. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 365-378.	2.8	3
32	Thermal risk assessment of vegetable oil epoxidation. Journal of Thermal Analysis and Calorimetry, 2015, 122, 795-804.	3.6	34
33	Modelling of gasoline fuel droplets heating and evaporation. Fuel, 2015, 159, 373-384.	6.4	46
34	Microscopic imaging of the initial stage of diesel spray formation. Fuel, 2015, 157, 140-150.	6.4	108
35	Modelling of biodiesel fuel droplet heating and evaporation: Effects of fuel composition. Fuel, 2015, 154, 308-318.	6.4	30
36	Time-resolved fuel injector flow characterisation based on 3D laser Doppler vibrometry. Measurement Science and Technology, 2014, 25, 125301.	2.6	13

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37	Jet and Vortex Ring-Like Structures in Internal Combustion Engines: Stability Analysis and Analytical Solutions. Procedia IUTAM, 2013, 8, 196-204.	1.2	1
38	A breakup model for transient Diesel fuel sprays. Fuel, 2012, 97, 288-305.	6.4	68
39	ADVANCEMENT IN TURBULENT SPRAY MODELLING: THE EFFECT OF INTERNAL TEMPERATURE GRADIENT IN DROPLETS. , 2012, , .		3
40	Tools and Techniques for Intelligent Characterization of Fuels. Smart Innovation, Systems and Technologies, 2011, , 129-138.	0.6	0
41	Grouping and trapping of evaporating droplets in an oscillating gas flow. International Journal of Heat and Fluid Flow, 2008, 29, 415-426.	2.4	35
42	Diesel fuel spray penetration, heating, evaporation and ignition: modelling vs. experimentation. International Journal of Engineering Systems Modelling and Simulation, 2008, 1, 1.	0.2	20
43	MODELING AND CONTROL OF INTERNAL COMBUSTION ENGINES USING INTELLIGENT TECHNIQUES. Cybernetics and Systems, 2007, 38, 509-533.	2.5	8
44	The effect of compression ratio on exhaust emissions from a PCCI diesel engine. Energy Conversion and Management, 2007, 48, 2918-2924.	9.2	106
45	MODELLING OF DROPLET HEATING, EVAPORATION AND BREAK-UP: RECENT DEVELOPMENTS. , 2006, , .		0
46	Neural Network Classification of Diesel Spray Images. Lecture Notes in Computer Science, 2006, , 1179-1189.	1.3	0
47	Fuzzy Logic and Neuro-fuzzy Modelling of Diesel Spray Penetration. Lecture Notes in Computer Science, 2005, , 642-650.	1.3	3
48	Diesel autogignition at elevated in-cylinder pressueres. International Journal of Engine Research, 2004, 5, 365-374.	2.3	18
49	Laser-induced incandescence study of diesel soot formation in a rapid compression machine at elevated pressures. Combustion and Flame, 2003, 135, 475-488.	5.2	40
50	The initial stage of fuel spray penetrationa ~†. Fuel, 2003, 82, 875-885.	6.4	51
51	Spray Penetration in a Turbulent Flow. Flow, Turbulence and Combustion, 2002, 68, 153-165.	2.6	20
52	The Influence of Injector Parameters on the Formation and Break-Up of a Diesel Spray. , 2001, , .		42
53	In-Cylinder Penetration and Break-Up of Diesel Sprays Using a Common-Rail Injection System. , 0, , .		20
54	Characterisation of the Soot Formation Processes in a High Pressure Combusting Diesel Fuel Spray. , 0, , .		3

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#	Article	IF	CITATIONS
55	PDA Characterisation of Dense Diesel Sprays Using a Common-Rail Injection System. , 0, , .		29
56	High-Speed Microscopic Imaging of the Initial Stage of Diesel Spray Formation and Primary Breakup. , 0,		53
57	Laser-Induced Fluorescence Investigation of Nitric Oxide Formation and Hydroxyl Radicals in a Diesel Rapid Compression Machine. , 0, , .		7
58	Visual Analyses of End of Injection Liquid Structures and the Behaviour of Nozzle Surface-Bound Fuel in a Direct Injection Diesel Engine. , 0, , .		4
59	Simulation and Measurement of Transient Fluid Phenomena within Diesel Injection. SAE International Journal of Advances and Current Practices in Mobility, 0, 1, 291-305.	2.0	17
60	A study of the controlling parameters of fuel air mixture formation for ECN Spray A. , 0, , .		1
61	Transcritical mixing of sprays for multi-component fuel mixtures. , 0, , .		3
62	Drop Impact onto a Metallic Porous Layer: Effect of Liquid Viscosity and Air Entrapment. , 0, , .		0
63	A quantitative analysis of nozzle surface bound fuel for diesel injectors. , 0, , .		1
64	A model for mono- and multi-component droplet heating and evaporation and its implementation into ANSYS Fluent , 0, , .		3
65	Quantification of diesel injector dribble using 3D reconstruction from x-ray and DBI imaging. , 0, , .		0
66	High-Speed Thermographic Analysis of Diesel Injector Nozzle Tip Temperature. , 0, , .		0