Assaad Masri

List of Publications by Year in descending order

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207 papers	7,846 citations	43973 48 h-index	69108 77 g-index
210 all docs	210 docs citations	210 times ranked	3022 citing authors

#	Article	IF	Citations
1	Catalytic combustion of selected hydrocarbon fuels on platinum: Reactivity and heteroâ€“homogeneous interactions. Combustion and Flame, 2012, 159, 817-831.	2.8	273
2	The structure of turbulent nonpremixed flames revealed by Raman-Rayleigh-LIF measurements. Progress in Energy and Combustion Science, 1996, 22, 307-362.	15.8	236
3	Instantaneous and Mean Compositional Structure of Bluff-Body Stabilized Nonpremixed Flames. Combustion and Flame, 1998, 114, 119-148.	2.8	214
4	Flow and mixing fields of turbulent bluff-body jets and flames. Combustion Theory and Modelling, 1998, 2, 193-219.	1.0	184
5	The effects of obstructions on overpressure resulting from premixed flame deflagration. Journal of Loss Prevention in the Process Industries, 2001, 14, 213-221.	1.7	171
6	The spontaneous raman scattering technique applied to nonpremixed flames of methane. Combustion and Flame, 1987, 67, 189-206.	2.8	156
7	Turbulent lifted flames in a vitiated coflow investigated using joint PDF calculations. Combustion and Flame, 2005, 142, 438-453.	2.8	154
8	A new piloted premixed jet burner to study strong finite-rate chemistry effects. Combustion and Flame, 2007, 151, 46-60.	2.8	142
9	The compositional structure of swirl-stabilised turbulent nonpremixed flames. Combustion and Flame, 2004, 137, 1-37.	2.8	141
10	Simultaneous Rayleigh temperature, OH- and CH2O-LIF imaging of methane jets in a vitiated coflow. Combustion and Flame, 2008, 155, 181-195.	2.8	137
11	Partial premixing and stratification in turbulent flames. Proceedings of the Combustion Institute, 2015, 35, 1115-1136.	2.4	131
12	Pdf calculations of turbulent lifted flames of H2/N2fuel issuing into a vitiated co-flow. Combustion Theory and Modelling, 2004, 8, 1-22.	1.0	116
13	Transport budgets in turbulent lifted flames of methane autoigniting in a vitiated co-flow. Combustion and Flame, 2007, 151, 495-511.	2.8	113
14	A numerical study of auto-ignition in turbulent lifted flames issuing into a vitiated co-flow. Combustion Theory and Modelling, 2007, 11, 351-376.	1.0	110
15	Artificial neural network implementation of chemistry with pdf simulation of H2/CO2 flames. Combustion and Flame, 1996, 106, 406-427.	2.8	107
16	Turbulent piloted dilute spray flames: Flow fields and droplet dynamics. Combustion and Flame, 2012, 159, 3372-3397.	2.8	107
17	A modified piloted burner for stabilizing turbulent flames of inhomogeneous mixtures. Combustion and Flame, 2014, 161, 484-495.	2.8	105
18	Turbulent nonpremixed flames of methane near extinction: Mean structure from Raman measurements. Combustion and Flame, 1988, 71, 245-266.	2.8	95

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19	Local extinction and near-field structure in piloted turbulent CH4/air jet flames with inhomogeneous inlets. Combustion and Flame, 2015, 162, 3516-3540.	2.8	94
20	Experimental study of premixed flame propagation over various solid obstructions. Experimental Thermal and Fluid Science, 2000, 21, 109-116.	1.5	93
21	Swirling turbulent non-premixed flames of methane: Flow field and compositional structure. Proceedings of the Combustion Institute, 2002, 29, 1913-1919.	2.4	91
22	Turbulent nonpremixed flames of methane near extinction: Probability density functions. Combustion and Flame, 1988, 73, 261-285.	2.8	90
23	Partially premixed reacting acetone spray using LES and FGM tabulated chemistry. Combustion and Flame, 2012, 159, 2718-2741.	2.8	89
24	Recirculation and flowfield regimes of unconfined non-reacting swirling flows. Experimental Thermal and Fluid Science, 2003, 27, 655-665.	1.5	85
25	The compositional structure of highly turbulent piloted premixed flames issuing into a hot coflow. Proceedings of the Combustion Institute, 2009, 32, 1779-1786.	2.4	85
26	Particle emissions from biodiesels with different physical properties and chemical composition. Fuel, 2014, 134, 201-208.	3.4	85
27	An integrated PDF/neural network approach for simulating turbulent reacting systems. Proceedings of the Combustion Institute, 1996, 26, 43-48.	0.3	83
28	Finite Rate Chemistry Effects in Highly Sheared Turbulent Premixed Flames. Flow, Turbulence and Combustion, 2010, 85, 621-648.	1.4	81
29	Visualization of blow-off events in bluff-body stabilized turbulent premixed flames. Proceedings of the Combustion Institute, 2011, 33, 1559-1566.	2.4	81
30	Stability characteristics and flowfields of turbulent non-premixed swirling flames. Combustion Theory and Modelling, 2003, 7, 731-766.	1.0	77
31	Chemical kinetic effects in nonpremixed flames of H2/CO2 fuel. Combustion and Flame, 1992, 91, 285-309.	2.8	74
32	Review of laboratory swirl burners and experiments for model validation. Experimental Thermal and Fluid Science, 2015, 69, 178-196.	1.5	73
33	High-speed OH-PLIF imaging of extinction and re-ignition in non-premixed flames with various levels of oxygenation. Combustion and Flame, 2011, 158, 902-914.	2.8	70
34	Stabilization of piloted turbulent flames with inhomogeneous inlets. Proceedings of the Combustion Institute, 2015, 35, 1477-1484.	2.4	69
35	Inhibition of Premixed Hydrogen-Air Flames by 2-H Heptafluoropropane. Combustion and Flame, 1998, 113, 554-565.	2.8	67
36	Heat release rate as represented by [OH] Ã— [CH₂O] and its role in autoignition. Combustion Theory and Modelling, 2009, 13, 645-670.	1.0	67

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37	Effects of position and frequency of obstacles on turbulent premixed propagating flames. Combustion and Flame, 2009, 156, 439-446.	2.8	65
38	Turbulent Spray Flames of Acetone and Ethanol Approaching Extinction. Combustion Science and Technology, 2010, 182, 702-715.	1.2	63
39	Soot formation in laminar flames of ethylene/ammonia. Combustion and Flame, 2020, 220, 210-218.	2.8	63
40	PDF calculations of piloted turbulent nonpremixed flames of methane. Combustion and Flame, 1990, 81, 13-29.	2.8	59
41	Air assisted atomization and spray density characterization of ethanol and a range of biodiesels. Fuel, 2013, 108, 758-770.	3.4	57
42	â€œFluorescenceâ€•interference with Raman measurements in nonpremixed flames of methane. Combustion and Flame, 1987, 68, 109-119.	2.8	55
43	PRECESSION AND RECIRCULATION IN TURBULENT SWIRLING ISOTHERMAL JETS. Combustion Science and Technology, 2004, 176, 645-665.	1.2	55
44	A detailed experimental investigation of well-defined, turbulent evaporating spray jets of acetone. International Journal of Multiphase Flow, 2006, 32, 389-412.	1.6	55
45	Air-assisted atomization of liquid jets in varying levels of turbulence. Journal of Fluid Mechanics, 2015, 764, 95-132.	1.4	53
46	The structure of turbulent nonpremixed flames of methanol over a range of mixing rates. Combustion and Flame, 1992, 89, 167-185.	2.8	52
47	Shock-Tube Study of the Pyrolysis of the Halon Replacement Molecule CF3CHFCF3. Journal of Physical Chemistry A, 1999, 103, 54-61.	1.1	52
48	A two mixture fraction flamelet model for large eddy simulation of turbulent flames with inhomogeneous inlets. Proceedings of the Combustion Institute, 2017, 36, 1767-1775.	2.4	50
49	Measurements and LES calculations of turbulent premixed flame propagation past repeated obstacles. Combustion and Flame, 2011, 158, 2465-2481.	2.8	49
50	Detection of nanostructures and soot in laminar premixed flames. Combustion and Flame, 2017, 176, 299-308.	2.8	49
51	Challenges for turbulent combustion. Proceedings of the Combustion Institute, 2021, 38, 121-155.	2.4	48
52	Characterization of atomization and combustion in moderately dense turbulent spray flames. Combustion and Flame, 2015, 162, 978-996.	2.8	47
53	Turbulenceâ€“chemistry interactions in non-premixed swirling flames. Combustion Theory and Modelling, 2007, 11, 653-673.	1.0	44
54	LES/probability density function approach for the simulation of an ethanol spray flame. Proceedings of the Combustion Institute, 2013, 34, 1633-1641.	2.4	44

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55	Combustion characterization of waste cooking oil and canola oil based biodiesels under simulated engine conditions. Fuel, 2018, 224, 167-177.	3.4	44
56	Measurements and large eddy simulation of propagating premixed flames. Experimental Thermal and Fluid Science, 2006, 30, 687-702.	1.5	43
57	An algorithm for LES of premixed compressible flows using the Conditional Moment Closure model. Journal of Computational Physics, 2011, 230, 7687-7705.	1.9	43
58	Laser Imaging in the Stabilisation Region of Turbulent Lifted Flames. Combustion Science and Technology, 1998, 135, 117-134.	1.2	42
59	Probability density function computations of a strongly swirling nonpremixed flame stabilized on a new burner. Proceedings of the Combustion Institute, 2000, 28, 123-131.	2.4	42
60	Large Eddy Simulation of a Propagating Turbulent Premixed Flame. Flow, Turbulence and Combustion, 2003, 70, 1-19.	1.4	42
61	An Experimental Investigation of the Turbulence Structure of a Lifted H2/N2 Jet Flame in a Vitiated Co-Flow. Flow, Turbulence and Combustion, 2006, 76, 61-81.	1.4	42
62	The local structure of turbulent nonpremixed flames near extinction. Combustion and Flame, 1990, 81, 260-276.	2.8	41
63	A new burner for studying auto-ignition in turbulent dilute sprays. Combustion and Flame, 2011, 158, 1577-1590.	2.8	41
64	Large Eddy Simulation of a Polydisperse Ethanol Spray Flame. Flow, Turbulence and Combustion, 2013, 90, 813-832.	1.4	41
65	MMC-LES simulations of turbulent piloted flames with varying levels of inlet inhomogeneity. Proceedings of the Combustion Institute, 2017, 36, 1759-1766.	2.4	41
66	Sparse-Lagrangian MMC simulations of an n-dodecane jet at engine-relevant conditions. Proceedings of the Combustion Institute, 2017, 36, 3577-3585.	2.4	40
67	Conditional probability density functions measured in turbulent nonpremixed flames of methane near extinction. Combustion and Flame, 1988, 74, 267-284.	2.8	39
68	An improved method of data aquisition and reduction for laser raman-rayleigh and fluorescence scattering from Multispecies. Applied Physics B, Photophysics and Laser Chemistry, 1990, 51, 39-43.	1.5	39
69	Turbulent spray flames of intermediate density: Stability and near-field structure. Combustion and Flame, 2017, 176, 511-520.	2.8	37
70	Effects of turbulence and carrier fluid on simple, turbulent spray jet flames. Combustion and Flame, 2005, 143, 420-432.	2.8	36
71	The Structure of the Auto-Ignition Region of Turbulent Dilute Methanol Sprays Issuing in a Vitiated Co-flow. Flow, Turbulence and Combustion, 2012, 89, 13-35.	1.4	36
72	Engine Performance Characteristics for Biodiesels of Different Degrees of Saturation and Carbon Chain Lengths. SAE International Journal of Fuels and Lubricants, 0, 6, 188-198.	0.2	36

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73	A stochastic multiple mapping conditioning computational model in OpenFOAM for turbulent combustion. Computers and Fluids, 2018, 172, 410-425.	1.3	36
74	LES Modeling of Premixed Deflagrating Flames in a Small-Scale Vented Explosion Chamber with a Series of Solid Obstructions. Combustion Science and Technology, 2008, 180, 1936-1955.	1.2	35
75	The influence of fatty acid methyl ester profiles on inter-cycle variability in a heavy duty compression ignition engine. Fuel, 2014, 116, 140-150.	3.4	35
76	Effects of ammonia and hydrogen on the sooting characteristics of laminar coflow flames of ethylene and methane. Fuel, 2022, 307, 121914.	3.4	35
77	Investigation of auto-ignition in turbulent methanol spray flames using Large Eddy Simulation. Combustion and Flame, 2013, 160, 2941-2954.	2.8	34
78	The structure of the recirculation zone of a bluff-body combustor. Proceedings of the Combustion Institute, 1994, 25, 1301-1308.	0.3	33
79	Structure of igniting ethanol and n-heptane spray flames with and without swirl. Experimental Thermal and Fluid Science, 2012, 43, 47-54.	1.5	33
80	A Comparative Study of Turbulent Premixed Flames Propagating Past Repeated Obstacles. Industrial & Engineering Chemistry Research, 2012, 51, 7690-7703.	1.8	33
81	Large eddy simulation of hydrogenâ€“air premixed flames in a small scale combustion chamber. International Journal of Hydrogen Energy, 2015, 40, 3098-3109.	3.8	33
82	Soot formation in turbulent flames of ethylene/hydrogen/ammonia. Combustion and Flame, 2021, 226, 315-324.	2.8	33
83	Calculations of explosion deflagrating flames using a dynamic flame surface density model. Journal of Loss Prevention in the Process Industries, 2009, 22, 258-264.	1.7	32
84	Influence of spray/combustion interactions on auto-ignition of methanol spray flames. Proceedings of the Combustion Institute, 2015, 35, 1639-1648.	2.4	32
85	Turbulent diffusion flames of hydrocarbon fuels stabilized on a bluff body. Proceedings of the Combustion Institute, 1985, 20, 319-326.	0.3	31
86	Quantitative technique for imaging mixture fraction, temperature, and the hydroxyl radical in turbulent diffusion flames. Applied Optics, 1997, 36, 3506.	2.1	31
87	Combined effervescent and airblast atomization of a liquid jet. Experimental Thermal and Fluid Science, 2016, 75, 66-76.	1.5	31
88	Spray and Combustion Investigation of Post Injections under Low-Temperature Combustion Conditions with Biodiesel. Energy & Fuels, 2018, 32, 8727-8742.	2.5	31
89	An assessment of large eddy simulations of premixed flames propagating past repeated obstacles. Combustion Theory and Modelling, 2009, 13, 513-540.	1.0	29
90	Influence of biodiesel carbon chain length on in-cylinder soot processes in a small bore optical diesel engine. Fuel, 2019, 235, 1184-1194.	3.4	29

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91	Chemical Inhibition of Nonpremixed Flames of Hydrocarbon Fuels with CF3Br. Combustion Science and Technology, 1994, 96, 189-212.	1.2	28
92	Turbulent non-premixed flames of hydrocarbon fuels near extinction: mean structure from probe measurements. Proceedings of the Combustion Institute, 1988, 21, 1511-1520.	0.3	27
93	Measurements of no in turbulent non-premixed flames stabilized on a bluff body. Proceedings of the Combustion Institute, 1996, 26, 2191-2197.	0.3	27
94	TURBULENT SWIRLING NATURAL GAS FLAMES: STABILITY CHARACTERISTICS, UNSTEADY BEHAVIOR AND VORTEX BREAKDOWN. Combustion Science and Technology, 2007, 179, 207-225.	1.2	27
95	LES of Recirculation and Vortex Breakdown in Swirling Flames. Combustion Science and Technology, 2008, 180, 809-832.	1.2	27
96	Influence of Fuel Molecular Structure on the Volatility and Oxidative Potential of Biodiesel Particulate Matter. Environmental Science & Technology, 2014, 48, 12577-12585.	4.6	27
97	Turbulent premixed flames of CNG, LPG, and H2 propagating past repeated obstacles. Experimental Thermal and Fluid Science, 2014, 56, 2-8.	1.5	27
98	Turbulent Combustion of Sprays: From Dilute to Dense. Combustion Science and Technology, 2016, 188, 1619-1639.	1.2	26
99	A two-angle far-field microscope imaging technique for spray flows. Measurement Science and Technology, 2017, 28, 035302.	1.4	26
100	Effect of the mixing fields on the stability and structure of turbulent partially premixed flames in a concentric flow conical nozzle burner. Combustion and Flame, 2017, 175, 180-200.	2.8	26
101	Simultaneous volume-velocity measurements in the near field of atomizing sprays. Measurement Science and Technology, 2017, 28, 115203.	1.4	26
102	PDF calculations of turbulent nonpremixed flames of using reduced chemical mechanisms. Combustion and Flame, 1993, 95, 133-150.	2.8	25
103	Two-photon laser-induced fluorescence measurement of CO in turbulent non-premixed bluff body flames. Combustion and Flame, 2003, 132, 272-274.	2.8	25
104	On defining progress variable for Raman/Rayleigh experiments in partially-premixed methane flames. Combustion and Flame, 2017, 179, 117-129.	2.8	25
105	Tracking the evolution of soot particles and precursors in turbulent flames using laser-induced emission. Proceedings of the Combustion Institute, 2017, 36, 1869-1876.	2.4	25
106	Sparse MMC-LES of a Sydney swirl flame. Proceedings of the Combustion Institute, 2019, 37, 2191-2198.	2.4	25
107	A mixing model to improve the PDF simulation of turbulent diffusion flames. Proceedings of the Combustion Institute, 1996, 26, 49-57.	0.3	23
108	Sample Probe Measurements on a Hydrogenâ^'Ethaneâ^'Airâ^'2-H-Heptafluoropropane Flame. Energy & Fuels, 1999, 13, 485-492.	2.5	23

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109	Enhanced Transient Heat Transfer From Arrays of Jets Impinging on a Moving Plate. Heat Transfer Engineering, 2013, 34, 361-371.	1.2	22
110	Turbulent flames with compositionally inhomogeneous inlets: Resolved measurements of scalar dissipation rates. Proceedings of the Combustion Institute, 2017, 36, 1737-1745.	2.4	22
111	A novel transient turbulent jet flame for studying turbulent combustion. Proceedings of the Combustion Institute, 2013, 34, 1251-1259.	2.4	21
112	Stabilisation of turbulent auto-igniting dimethyl ether jet flames issuing into a hot vitiated coflow. Proceedings of the Combustion Institute, 2017, 36, 1661-1668.	2.4	21
113	A concentric flow slot burner for stabilizing turbulent partially premixed inhomogeneous flames of gaseous fuels. Experimental Thermal and Fluid Science, 2018, 91, 214-229.	1.5	21
114	Investigation of extinction and re-ignition in piloted turbulent non-premixed methaneâ€“air flames using LES and high-speed OH-LIF. Combustion Theory and Modelling, 2013, 17, 483-503.	1.0	20
115	The influence of gas phase velocity fluctuations on primary atomization and droplet deformation. Experiments in Fluids, 2014, 55, 1.	1.1	20
116	The instantaneous spatial structure of the recirculation zone in bluff-body stabilized flames. Proceedings of the Combustion Institute, 1998, 27, 1031-1038.	0.3	19
117	Population balance equation for turbulent polydispersed inertial droplets and particles. Journal of Fluid Mechanics, 2017, 831, 719-742.	1.4	19
118	A comprehensive model for the quantification of linear and nonlinear regime laser-induced fluorescence of OH under A2Î£+â†X2Î(1,0) excitation. Applied Physics B: Lasers and Optics, 2010, 101, 445-463.	1.1	18
119	Temperature imaging of turbulent dilute spray flames using two-line atomic fluorescence. Experiments in Fluids, 2014, 55, 1.	1.1	18
120	Experimental study of the beating behavior of thermoacoustic self-excited instabilities in dual swirl combustors. Experimental Thermal and Fluid Science, 2019, 105, 1-10.	1.5	18
121	Spontaneous raman measurements in turbulent Co/H2/N2 flames near extinction. Proceedings of the Combustion Institute, 1989, 22, 607-618.	0.3	17
122	Simultaneous Imaging of Temperature and OH Number Density in Turbulent Diffusion Flames. Combustion Science and Technology, 1997, 122, 1-32.	1.2	17
123	Assessment of the stabilization mechanisms of turbulent lifted jet flames at elevated pressure using combined 2-D diagnostics. Combustion and Flame, 2020, 214, 323-335.	2.8	17
124	Raman-rayleigh measurements in bluff-body stabilised flames of hydrocarbon fuels. Proceedings of the Combustion Institute, 1992, 24, 317-324.	0.3	16
125	Reaction Zone Structure and Scalar Dissipation Rates in Turbulent Diffusion Flames. Combustion Science and Technology, 1997, 129, 17-55.	1.2	16
126	Effect of atmospheric aging on volatility and reactive oxygen species of biodiesel exhaust nano-particles. Atmospheric Chemistry and Physics, 2015, 15, 9099-9108.	1.9	16

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127	Fuel effects on the stability of turbulent flames with compositionally inhomogeneous inlets. Proceedings of the Combustion Institute, 2017, 36, 1777-1784.	2.4	16
128	Statistics of scalar dissipation and reaction progress in turbulent flames with compositional inhomogeneities. Combustion and Flame, 2018, 194, 439-451.	2.8	16
129	Effect of electric charge and temperature on the near-field atomization of diesel and biodiesel. Fuel, 2019, 241, 941-953.	3.4	16
130	Quantitative imaging of temperature and OH in turbulent diffusion flames by using a single laser source. Applied Optics, 1994, 33, 3992.	2.1	15
131	An experimental and numerical study of surface chemical interactions in the combustion of propylene over platinum. Combustion and Flame, 2013, 160, 473-485.	2.8	15
132	Large eddy simulations of partially premixed ethanol dilute spray flames using the flamelet generated manifold model. Combustion Theory and Modelling, 2016, 20, 567-591.	1.0	15
133	Influence of Pilot Flame Parameters on the Stability of Turbulent Jet Flames. Energy & Fuels, 2017, 31, 2128-2137.	2.5	15
134	Heat release zones in turbulent, moderately dense spray flames of ethanol and biodiesel. Combustion and Flame, 2020, 220, 298-311.	2.8	15
135	An Atlas of QEDR Flame Structures. Combustion Science and Technology, 1990, 72, 137-155.	1.2	14
136	Raman-Rayleigh scattering measurements in reacting and non-reacting dilute two-phase flows. Journal of Raman Spectroscopy, 1993, 24, 83-89.	1.2	14
137	Characteristics of turbulent spray combustion in a piloted jet flame burner. Proceedings of the Combustion Institute, 2002, 29, 625-632.	2.4	14
138	Local characteristics of fragments in atomizing sprays. Experimental Thermal and Fluid Science, 2018, 95, 44-51.	1.5	14
139	Droplet evaporation modeling of electrified fatty acid methyl esters. Fuel, 2018, 231, 244-252.	3.4	14
140	Chirped-probe-pulse femtosecond CARS thermometry in turbulent spray flames. Proceedings of the Combustion Institute, 2019, 37, 1383-1391.	2.4	14
141	An experimental study of turbulent lifted flames at elevated pressures. Combustion and Flame, 2019, 203, 301-312.	2.8	14
142	Fragmentation dynamics of single agglomerate-to-wall impaction. Powder Technology, 2021, 378, 561-575.	2.1	14
143	Utilising artificial neural network and repro-modelling in turbulent combustion. , 0, , .		13
144	Shock Tube Study of the Oxidation of C3F6by N2O. Journal of Physical Chemistry A, 1999, 103, 5967-5977.	1.1	13

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145	Detachment mechanisms of turbulent non-premixed jet flames at atmospheric and elevated pressures. Combustion and Flame, 2019, 202, 219-227.	2.8	13
146	The role of DME addition on the evolution of soot and soot precursors in laminar ethylene jet flames. Proceedings of the Combustion Institute, 2021, 38, 5319-5329.	2.4	13
147	Atomization behaviour of a hybrid air-blast-electrostatic atomizer for spray combustion. Fuel, 2021, 288, 119716.	3.4	13
148	Turbulent piloted partially-premixed flames with varying levels of O₂/N₂: stability limits and PDF calculations. Combustion Theory and Modelling, 2011, 15, 773-793.	1.0	12
149	Studies of the flow and turbulence fields in a turbulent pulsed jet flame using LES/PDF. Combustion Theory and Modelling, 2017, 21, 897-924.	1.0	12
150	Five kHz thermometry in turbulent spray flames using chirped-probe pulse femtosecond CARS, part I: Processing and interference analysis. Combustion and Flame, 2019, 200, 405-416.	2.8	12
151	Effects of Turbulence, Evaporation and Heat Release on the Dispersion of Droplets in Dilute Spray Jets and Flames. Flow, Turbulence and Combustion, 2013, 91, 405-427.	1.4	10
152	A comparative experimental study of the interactions between platinum and a range of hydrocarbon fuels. Fuel, 2013, 105, 523-534.	3.4	10
153	Experience With the Large Eddy Simulation (LES) Technique for the Modeling of Premixed and Non-Premixed Combustion. Heat Transfer Engineering, 2013, 34, 1156-1170.	1.2	10
154	The evolution of autoignition kernels in turbulent flames of dimethyl ether. Combustion and Flame, 2018, 197, 182-196.	2.8	10
155	Volume measurement of atomizing fragments using image slicing. Experimental Thermal and Fluid Science, 2020, 115, 110102.	1.5	10
156	A flamelet LES of turbulent dense spray flame using a detailed high-resolution VOF simulation of liquid fuel atomization. Combustion and Flame, 2022, 237, 111742.	2.8	10
157	The Structure of Laminar Diffusion Flames Inhibited with CF3Br. Combustion Science and Technology, 1996, 113, 17-34.	1.2	9
158	Details and Complexities of Boundary Conditions in Turbulent Piloted Dilute Spray Jets and Flames. ERCOFTAC Series, 2011, , 41-68.	0.1	9
159	Acetone Droplet Behavior in Reacting and Non Reacting Turbulent Flow. Flow, Turbulence and Combustion, 2013, 90, 419-447.	1.4	9
160	Effects of shear inhomogeneities on the structure of turbulent premixed flames. Combustion and Flame, 2019, 208, 63-78.	2.8	9
161	Pressure effects and transition in the stabilization mechanism of turbulent lifted flames. Proceedings of the Combustion Institute, 2019, 37, 2167-2174.	2.4	9
162	Structure and stability characteristics of turbulent planar flames with inhomogeneous jet in a concentric flow slot burner. Proceedings of the Combustion Institute, 2021, 38, 2597-2606.	2.4	9

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163	A sectional soot formation kinetics scheme with a new model for coagulation efficiency. Combustion and Flame, 2021, 230, 111444.	2.8	9
164	Multispecies measurements and mixture fraction imaging in turbulent diffusion flames. Experimental Thermal and Fluid Science, 1994, 9, 119-124.	1.5	8
165	A shock tube kinetic study on the reaction of C3F6 and H atoms at high temperatures. Proceedings of the Combustion Institute, 2000, 28, 1557-1562.	2.4	8
166	Conditioned Analysis of Effervescent Atomization. Journal of Energy Engineering - ASCE, 2017, 143, .	1.0	8
167	Five kHz thermometry in turbulent spray flames using chirped-probe-pulse femtosecond CARS, part II: Structure of reaction zones. Combustion and Flame, 2019, 200, 417-432.	2.8	8
168	Investigation of Lifted Flame Propagation Under Pulsing Conditions Using High-Speed OH-LIF and LES. Flow, Turbulence and Combustion, 2014, 93, 425-437.	1.4	7
169	Spray Atomization and Links to Flame Stability over a Range of Weber Numbers and Pressure Ratios. Energy & Fuels, 2021, 35, 16115-16127.	2.5	7
170	Characterization of Flow-Focusing and Flow-Blurring Modes of Atomization. Energy & Fuels, 2021, 35, 7144-7155.	2.5	7
171	PDF-PBE modelling of polydisperse inertial particles in a turbulent recirculating flow. International Journal of Multiphase Flow, 2019, 117, 42-52.	1.6	6
172	Turbulent spray flames of kerosene issuing from a hybrid electrohydrodynamic-air-blast atomiser. Combustion and Flame, 2022, 239, 111573.	2.8	6
173	A Study of Combustion Instability Mode in Dual Swirl Gas Turbine Combustor by PLIF and Chemiluminescence Measurement. Journal of the Korean Society of Combustion, 2014, 19, 29-38.	0.1	6
174	Detailed investigation of the mixing field and stability of natural gas and propane in highly turbulent planar flames. Fuel, 2022, 309, 122222.	3.4	6
175	Review of Flow Blurring Atomization: Advances and Perspectives. Energy & Fuels, 2022, 36, 4224-4233.	2.5	6
176	Characterization of multi-regime reaction zones in a piloted inhomogeneous jet flame with local extinction. Proceedings of the Combustion Institute, 2021, 38, 2571-2579.	2.4	5
177	GASOLINE SPRAYS INJECTED AT DIFFERENT BACK PRESSURES: CALCULATIONS USING TWO ATOMIZATION MODELS. , 2007, 17, 233-265.		5
178	A coupled MMC-LES and sectional kinetic scheme for soot formation in a turbulent flame. Combustion and Flame, 2022, 241, 112089.	2.8	5
179	A sensitivity study of the oxidation of compressed natural gas on platinum. Fuel, 2013, 113, 467-480.	3.4	4
180	Simultaneous planar and volume cross-LIF imaging to identify out-of-plane motion. Proceedings of the Combustion Institute, 2015, 35, 3813-3820.	2.4	4

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