

# Epaminondas Mastorakos

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1554736/publications.pdf>

Version: 2024-02-01

230  
papers

9,096  
citations

36203

51  
h-index

53109

85  
g-index

235  
all docs

235  
docs citations

235  
times ranked

2778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ignition of turbulent non-premixed flames. <i>Progress in Energy and Combustion Science</i> , 2009, 35, 57-97.	15.8	576
2	Experimental investigation of the nonlinear response of turbulent premixed flames to imposed inlet velocity oscillations. <i>Combustion and Flame</i> , 2005, 143, 37-55.	2.8	467
3	Numerical simulations of autoignition in turbulent mixing flows. <i>Combustion and Flame</i> , 1997, 109, 198-223.	2.8	311
4	Spatially resolved heat release rate measurements in turbulent premixed flames. <i>Combustion and Flame</i> , 2006, 144, 1-16.	2.8	258
5	The role of particle collisions in pneumatic transport. <i>Journal of Fluid Mechanics</i> , 1991, 231, 345-359.	1.4	206
6	An algorithm for the construction of global reduced mechanisms with CSP data. <i>Combustion and Flame</i> , 1999, 117, 685-708.	2.8	180
7	Spark ignition of lifted turbulent jet flames. <i>Combustion and Flame</i> , 2006, 146, 215-231.	2.8	174
8	An experimental study of hydrogen autoignition in a turbulent co-flow of heated air. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 883-891.	2.4	160
9	Spark ignition of turbulent nonpremixed bluff-body flames. <i>Combustion and Flame</i> , 2007, 151, 366-385.	2.8	153
10	Simultaneous Rayleigh temperature, OH- and CH <sub>2</sub> O-LIF imaging of methane jets in a vitiated coflow. <i>Combustion and Flame</i> , 2008, 155, 181-195.	2.8	137
11	Measurements in turbulent premixed bluff body flames close to blow-off. <i>Combustion and Flame</i> , 2012, 159, 2589-2607.	2.8	129
12	A Comparison of the Blow-Off Behaviour of Swirl-Stabilized Premixed, Non-Premixed and Spray Flames. <i>Flow, Turbulence and Combustion</i> , 2013, 91, 347-372.	1.4	129
13	Hydrogen production from rich combustion in porous media. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 579-592.	3.8	122
14	Simulations of spray autoignition and flame establishment with two-dimensional CMC. <i>Combustion and Flame</i> , 2005, 143, 402-419.	2.8	117
15	Ignition of turbulent swirling n-heptane spray flames using single and multiple sparks. <i>Combustion and Flame</i> , 2009, 156, 166-180.	2.8	116
16	Investigation of the nonlinear response of turbulent premixed flames to imposed inlet velocity oscillations. <i>Combustion and Flame</i> , 2006, 146, 419-436.	2.8	110
17	Extinction of turbulent counterflow flames with reactants diluted by hot products. <i>Combustion and Flame</i> , 1995, 102, 101-114.	2.8	109
18	Forced ignition of turbulent spray flames. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2367-2383.	2.4	109

#	ARTICLE	IF	CITATIONS
19	Large Eddy Simulations of forced ignition of a non-premixed bluff-body methane flame with Conditional Moment Closure. <i>Combustion and Flame</i> , 2009, 156, 2328-2345.	2.8	108
20	Complex chemistry DNS of n-heptane spray autoignition at high pressure and intermediate temperature conditions. <i>Combustion and Flame</i> , 2013, 160, 1254-1275.	2.8	97
21	CFD predictions for cement kilns including flame modelling, heat transfer and clinker chemistry. <i>Applied Mathematical Modelling</i> , 1999, 23, 55-76.	2.2	94
22	Simulations of laminar flame propagation in droplet mists. <i>Combustion and Flame</i> , 2009, 156, 1627-1640.	2.8	89
23	Measurements of ignition probability in turbulent non-premixed counterflow flames. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 1507-1513.	2.4	86
24	Capturing localised extinction in Sandia Flame F with LES+CMC. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1673-1680.	2.4	85
25	EFFECTS OF TURBULENCE ON SPARK IGNITION IN INHOMOGENEOUS MIXTURES: A DIRECT NUMERICAL SIMULATION (DNS) STUDY. <i>Combustion Science and Technology</i> , 2007, 179, 293-317.	1.2	81
26	Visualization of blow-off events in bluff-body stabilized turbulent premixed flames. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1559-1566.	2.4	81
27	DNS of spark ignition and edge flame propagation in turbulent droplet-laden mixing layers. <i>Combustion and Flame</i> , 2010, 157, 1071-1086.	2.8	79
28	Heat release imaging in turbulent premixed methane-air flames close to blow-off. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1443-1450.	2.4	79
29	Direct numerical simulations of autoignition in turbulent two-phase flows. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 2275-2282.	2.4	78
30	Spark ignition of turbulent recirculating non-premixed gas and spray flames: A model for predicting ignition probability. <i>Combustion and Flame</i> , 2012, 159, 1503-1522.	2.8	78
31	Extinction and temperature characteristics of turbulent counterflow diffusion flames with partial premixing. <i>Combustion and Flame</i> , 1992, 91, 40-54.	2.8	77
32	Second-order conditional moment closure for the autoignition of turbulent flows. <i>Physics of Fluids</i> , 1998, 10, 1246-1248.	1.6	75
33	Modeling evaporation effects in conditional moment closure for spray autoignition. <i>Combustion Theory and Modelling</i> , 2011, 15, 725-752.	1.0	74
34	Soot Formation Modeling of n-Heptane Sprays Under Diesel Engine Conditions Using the Conditional Moment Closure Approach. <i>Combustion Science and Technology</i> , 2013, 185, 766-793.	1.2	73
35	Pre-chamber ignition mechanism: Experiments and simulations on turbulent jet flame structure. <i>Fuel</i> , 2018, 230, 274-281.	3.4	73
36	Direct numerical simulations of turbulent flame expansion in fine sprays. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 2283-2290.	2.4	71

#	ARTICLE	IF	CITATIONS
37	Detailed chemistry LES/CMC simulation of a swirling ethanol spray flame approaching blow-off. Proceedings of the Combustion Institute, 2017, 36, 2625-2632.	2.4	71
38	Evolution of spray and aerosol from respiratory releases: theoretical estimates for insight on viral transmission. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200584.	1.0	71
39	LES/CMC of Blow-off in a Liquid Fueled Swirl Burner. Flow, Turbulence and Combustion, 2014, 92, 237-267.	1.4	70
40	Diesel Engine Simulations with Multi-Dimensional Conditional Moment Closure. Combustion Science and Technology, 2008, 180, 883-899.	1.2	69
41	Global reduced mechanisms for methane and hydrogen combustion with nitric oxide formation constructed with CSP data. Combustion Theory and Modelling, 1999, 3, 233-257.	1.0	69
42	Experiments and Simulations of n-Heptane Spray Auto-Ignition in a Closed Combustion Chamber at Diesel Engine Conditions. Flow, Turbulence and Combustion, 2010, 84, 49-78.	1.4	68
43	Heat release rate as represented by $[OH] \bar{A} - [CH_2O]$ and its role in autoignition. Combustion Theory and Modelling, 2009, 13, 645-670.	1.0	67
44	Simulations of premixed combustion in porous media. Combustion Theory and Modelling, 2002, 6, 383-411.	1.0	63
45	Implementation Issues of the Conditional Moment Closure Model in Large Eddy Simulations. Flow, Turbulence and Combustion, 2010, 84, 481-512.	1.4	62
46	Visualization of MILD combustion from jets in cross-flow. Proceedings of the Combustion Institute, 2015, 35, 3537-3545.	2.4	61
47	Direct Numerical Simulations of Localised Forced Ignition in Turbulent Mixing Layers: The Effects of Mixture Fraction and Its Gradient. Flow, Turbulence and Combustion, 2008, 80, 155-186.	1.4	60
48	Chaos in an imperfectly premixed model combustor. Chaos, 2015, 25, 023101.	1.0	59
49	Investigations on the self-excited oscillations in a kerosene spray flame. Combustion and Flame, 2009, 156, 374-384.	2.8	58
50	The internal structure of igniting turbulent sprays as revealed by complex chemistry DNS. Combustion and Flame, 2012, 159, 641-664.	2.8	58
51	Comparison of automatic reduction procedures for ignition chemistry. Proceedings of the Combustion Institute, 2002, 29, 1387-1393.	2.4	56
52	Influence of turbulence-chemistry interaction for n-heptane spray combustion under diesel engine conditions with emphasis on soot formation and oxidation. Combustion Theory and Modelling, 2014, 18, 330-360.	1.0	55
53	Experimental and Numerical Investigation into the Propagation of Entropy Waves. AIAA Journal, 2017, 55, 446-458.	1.5	54
54	Direct Numerical Simulations of premixed methane flame initiation by pilot n-heptane spray autoignition. Combustion and Flame, 2016, 163, 122-137.	2.8	53

#	ARTICLE	IF	CITATIONS
55	Experimental investigation on spark ignition of annular premixed combustors. <i>Combustion and Flame</i> , 2017, 178, 148-157.	2.8	52
56	Large Eddy Simulation/Conditional Moment Closure modeling of swirl-stabilized non-premixed flames with local extinction. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1167-1174.	2.4	50
57	Fundamental Aspects of Jet Ignition for Natural Gas Engines. <i>SAE International Journal of Engines</i> , 0, 10, 2429-2438.	0.4	50
58	Reduced chemical mechanisms for atmospheric pollution using Computational Singular Perturbation analysis. <i>Atmospheric Environment</i> , 2004, 38, 3661-3673.	1.9	49
59	Measurements and simulations of mixing and autoignition of an n-heptane plume in a turbulent flow of heated air. <i>Experimental Thermal and Fluid Science</i> , 2007, 31, 393-401.	1.5	49
60	Reaction zone visualisation in swirling spray n-heptane flames. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1649-1656.	2.4	49
61	Simulations of turbulent lifted jet flames with two-dimensional conditional moment closure. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 911-918.	2.4	48
62	Simulations of the dispersion of reactive pollutants in a street canyon, considering different chemical mechanisms and micromixing. <i>Atmospheric Environment</i> , 2009, 43, 4670-4680.	1.9	48
63	Scalar dissipation rate at the extinction of turbulent counterflow nonpremixed flames. <i>Combustion and Flame</i> , 1992, 91, 55-64.	2.8	47
64	Numerical investigation of edge flame propagation characteristics in turbulent mixing layers. <i>Physics of Fluids</i> , 2006, 18, 105103.	1.6	47
65	NUMERICAL INVESTIGATION OF FORCED IGNITION IN LAMINAR COUNTERFLOW NON-PREMIKED METHANE-AIR FLAMES. <i>Combustion Science and Technology</i> , 2007, 179, 21-37.	1.2	47
66	Experimental Investigation of the Effects of Turbulence and Mixing on Autoignition Chemistry. <i>Flow, Turbulence and Combustion</i> , 2011, 86, 585-608.	1.4	47
67	Prediction of Global Extinction Conditions and Dynamics in Swirling Non-premixed Flames Using LES/CMC Modelling. <i>Flow, Turbulence and Combustion</i> , 2016, 96, 863-889.	1.4	47
68	Complex chemistry simulations of spark ignition in turbulent sprays. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 2135-2142.	2.4	46
69	H <sub>2</sub> /air autoignition: The nature and interaction of the developing explosive modes. <i>Combustion Theory and Modelling</i> , 2015, 19, 382-433.	1.0	46
70	Spark ignition of annular non-premixed combustors. <i>Experimental Thermal and Fluid Science</i> , 2016, 73, 64-70.	1.5	46
71	Turbulent Combustion Modelling and Experiments: Recent Trends and Developments. <i>Flow, Turbulence and Combustion</i> , 2019, 103, 847-869.	1.4	46
72	Statistics of relative and absolute velocities of turbulent non-premixed edge flames following spark ignition. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 2957-2964.	2.4	45

#	ARTICLE	IF	CITATIONS
73	Numerical simulation of oxy-fuel jet flames using unstructured LES-CCM. Proceedings of the Combustion Institute, 2015, 35, 1207-1214.	2.4	44
74	Monte-Carlo simulation of unipolar diffusion charging for spherical and non-spherical particles. Journal of Aerosol Science, 2004, 35, 707-730.	1.8	42
75	Micromixing effects in a reacting plume by the Stochastic Fields method. Atmospheric Environment, 2006, 40, 1078-1091.	1.9	42
76	Numerical simulation of thermal and reaction fronts for oil shale upgrading. Chemical Engineering Science, 2013, 94, 200-213.	1.9	42
77	Simulations of Autoignition and Laminar Premixed Flames in Methane/Air Mixtures Diluted with Hot Products. Combustion Science and Technology, 2014, 186, 453-465.	1.2	40
78	A Comparison of Alternative Fuels for Shipping in Terms of Lifecycle Energy and Cost. Energies, 2021, 14, 8502.	1.6	40
79	Statistical Analysis of Turbulent Flame-Droplet Interaction: A Direct Numerical Simulation Study. Flow, Turbulence and Combustion, 2016, 96, 573-607.	1.4	38
80	Laser-induced breakdown spectroscopy measurements of mean mixture fraction in turbulent methane flames with a novel calibration scheme. Combustion and Flame, 2016, 167, 72-85.	2.8	36
81	A Model for the Effects of Mixing on the Autoignition of Turbulent Flows. Combustion Science and Technology, 1997, 125, 243-282.	1.2	35
82	Non-linear Response of Turbulent Premixed Flames to Imposed Inlet Velocity Oscillations of Two Frequencies. Flow, Turbulence and Combustion, 2008, 80, 455.	1.4	35
83	Syngas production from liquid fuels in a non-catalytic porous burner. Fuel, 2011, 90, 64-76.	3.4	35
84	Simulations and experiments on the ignition probability in turbulent premixed bluff-body flames. Combustion Theory and Modelling, 2016, 20, 548-565.	1.0	34
85	Aerosol nucleation and growth in a turbulent jet using the Stochastic Fields method. Chemical Engineering Science, 2008, 63, 4078-4089.	1.9	33
86	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
87	Spontaneous ignition of isolated n-heptane droplets at low, intermediate, and high ambient temperatures from a mixture-fraction perspective. Combustion and Flame, 2015, 162, 2544-2560.	2.8	31
88	Mechanisms of flame propagation in jet fuel sprays as revealed by OH/fuel planar laser-induced fluorescence and OH* chemiluminescence. Combustion and Flame, 2019, 206, 308-321.	2.8	31
89	Measurements of scalar dissipation in a turbulent plume with planar laser-induced fluorescence of acetone. Chemical Engineering Science, 2006, 61, 2835-2842.	1.9	28
90	Simulations of laminar non-premixed flames of methane with hot combustion products as oxidiser. Combustion and Flame, 2016, 163, 1-11.	2.8	28

#	ARTICLE	IF	CITATIONS
91	Azimuthally forced flames in an annular combustor. Proceedings of the Combustion Institute, 2017, 36, 3783-3790.	2.4	28
92	Measurements in swirling spray flames at blow-off. International Journal of Spray and Combustion Dynamics, 2018, 10, 185-210.	0.4	28
93	Multi-dimensional Conditional Moment Closure Modelling Applied to a Heavy-duty Common-rail Diesel Engine. SAE International Journal of Engines, 0, 2, 714-726.	0.4	27
94	Comparison of electrical and laser spark emission spectroscopy for fuel concentration measurements. Experimental Thermal and Fluid Science, 2010, 34, 338-345.	1.5	27
95	Simulation of Hydrogen Auto-Ignition in a Turbulent Co-flow of Heated Air with LES and CMC Approach. Flow, Turbulence and Combustion, 2011, 86, 689-710.	1.4	27
96	Simulations of Turbulent Non-Premixed Counterflow Flames with First-Order Conditional Moment Closure. Flow, Turbulence and Combustion, 2006, 76, 133-162.	1.4	26
97	Large Eddy Simulation of a spray jet flame using Doubly Conditional Moment Closure. Combustion and Flame, 2019, 199, 309-323.	2.8	26
98	The effects of the Lewis number of the fuel on the displacement speed of edge flames in igniting turbulent mixing layers. Proceedings of the Combustion Institute, 2009, 32, 1399-1407.	2.4	25
99	LES/CMC Simulations of Swirl-Stabilised Ethanol Spray Flames Approaching Blow-Off. Flow, Turbulence and Combustion, 2016, 97, 1165-1184.	1.4	25
100	Spark ignition of a turbulent shear-less fuel-air mixing layer. Fuel, 2016, 164, 297-304.	3.4	25
101	Analysis of direct numerical simulations of ignition fronts in turbulent non-premixed flames in the context of conditional moment closure. Proceedings of the Combustion Institute, 2007, 31, 1683-1690.	2.4	24
102	Correlation of Spark Ignition with the Local Instantaneous Mixture Fraction in a Turbulent Nonpremixed Methane Jet. Combustion Science and Technology, 2010, 182, 1360-1368.	1.2	24
103	Heat Release Imaging in Turbulent Premixed Ethylene-Air Flames Near Blow-off. Flow, Turbulence and Combustion, 2016, 96, 1039-1051.	1.4	24
104	Second-Order Conditional Moment Closure Simulations of Autoignition of an n-heptane Plume in a Turbulent Coflow of Heated Air. Flow, Turbulence and Combustion, 2009, 82, 455-475.	1.4	23
105	Numerical Investigation of the Stochastic Behavior of Light-Round in Annular Non-Premixed Combustors. Combustion Science and Technology, 2017, 189, 1467-1485.	1.2	23
106	Experimental and Numerical Investigation on Spark Ignition of Linearly Arranged Non-Premixed Swirling Burners. Combustion Science and Technology, 2017, 189, 1326-1353.	1.2	22
107	Numerical investigation of kerosene single droplet ignition at high-altitude reflight conditions. Fuel, 2018, 225, 663-670.	3.4	22
108	Ignition of uniform droplet-laden weakly turbulent flows following a laser spark. Combustion and Flame, 2019, 199, 387-400.	2.8	22

#	ARTICLE	IF	CITATIONS
109	Effect of spark location and laminar flame speed on the ignition transient of a premixed annular combustor. <i>Combustion and Flame</i> , 2020, 221, 296-310.	2.8	22
110	Rich n-heptane and diesel combustion in porous media. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 359-365.	1.5	21
111	Regimes of Nonpremixed Combustion of Hot Low-Calorific-Value Gases Derived from Biomass Gasification. <i>Energy &amp; Fuels</i> , 2016, 30, 4386-4397.	2.5	21
112	Measurements of the Statistical Distribution of the Scalar Dissipation Rate in Turbulent Axisymmetric Plumes. <i>Flow, Turbulence and Combustion</i> , 2008, 81, 221-234.	1.4	20
113	Temperature and reaction zone imaging in turbulent swirling dual-fuel flames. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2159-2166.	2.4	20
114	LES/CMC modelling of ignition and flame propagation in a non-premixed methane jet. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2125-2132.	2.4	20
115	Visualisation of turbulent swirling dual-fuel flames. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1721-1727.	2.4	19
116	Analysing the Performance of Ammonia Powertrains in the Marine Environment. <i>Energies</i> , 2021, 14, 7447.	1.6	19
117	Modeling of turbulent opposed-jet mixing flows with “ model and second-order closure. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 1023-1035.	2.5	18
118	Experiments and Large-Eddy Simulations of acoustically forced bluff-body flows. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 754-766.	1.1	18
119	Conditional Moment Closure/Large Eddy Simulation of the Delft-III Natural Gas Non-premixed Jet Flame. <i>Flow, Turbulence and Combustion</i> , 2012, 88, 207-231.	1.4	18
120	Numerical simulation of thermal and reaction waves for in situ combustion in hydrocarbon reservoirs. <i>Fuel</i> , 2013, 108, 780-792.	3.4	18
121	LES-CMC Simulations of Different Auto-ignition Regimes of Hydrogen in a Hot Turbulent Air Co-flow. <i>Flow, Turbulence and Combustion</i> , 2013, 90, 583-604.	1.4	18
122	Pre-Chamber Ignition Mechanism: Simulations of Transient Autoignition in a Mixing Layer Between Reactants and Partially-Burnt Products. <i>Flow, Turbulence and Combustion</i> , 2018, 101, 1093-1102.	1.4	18
123	Modelling local extinction in Sydney swirling non-premixed flames with LES/CMC. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1669-1676.	2.4	17
124	Stabilisation of swirling dual-fuel flames. <i>Experimental Thermal and Fluid Science</i> , 2018, 95, 65-72.	1.5	17
125	Flame Propagation Following the Autoignition of Axisymmetric Hydrogen, Acetylene, and Normal-Heptane Plumes in Turbulent Coflows of Hot Air. <i>Journal of Engineering for Gas Turbines and Power</i> , 2008, 130, .	0.5	16
126	Transported scalar PDF calculations of autoignition of a hydrogen jet in a heated turbulent co-flow. <i>Combustion Theory and Modelling</i> , 2008, 12, 1153-1178.	1.0	16



#	ARTICLE	IF	CITATIONS
127	Simulations of droplet combustion under gas turbine conditions. <i>Combustion and Flame</i> , 2017, 184, 101-116.	2.8	16
128	Modelling of Boil-Off and Sloshing Relevant to Future Liquid Hydrogen Carriers. <i>Energies</i> , 2022, 15, 2046.	1.6	16
129	Effects of Fuel Lewis Number on Localised Forced Ignition of Turbulent Mixing Layers. <i>Flow, Turbulence and Combustion</i> , 2010, 84, 125-166.	1.4	15
130	The Conditional Moment Closure Model. <i>Fluid Mechanics and Its Applications</i> , 2011, , 91-117.	0.1	15
131	Sensitivity analysis of LES- $\tau$ CMC predictions of piloted jet flames. <i>International Journal of Heat and Fluid Flow</i> , 2013, 39, 53-63.	1.1	15
132	Experimental assessment of the lean blow-off in a fully premixed annular combustor. <i>Experimental Thermal and Fluid Science</i> , 2020, 112, 109994.	1.5	15
133	A LES-CMC formulation for premixed flames including differential diffusion. <i>Combustion Theory and Modelling</i> , 2018, 22, 411-431.	1.0	14
134	Investigation of Flame Structure and Soot Formation in a Single Sector Model Combustor Using Experiments and Numerical Simulations Based on the Large Eddy Simulation/Conditional Moment Closure Approach. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	0.5	14
135	Blow-off mechanisms of turbulent premixed bluff-body stabilised flames operated with vapourised kerosene fuels. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2957-2965.	2.4	14
136	Soot-Free Low-NO <sub>x</sub> Aeronautical Combustor Concept: The Lean Azimuthal Flame for Kerosene Sprays. <i>Energy &amp; Fuels</i> , 2021, 35, 7092-7106.	2.5	14
137	Experimental investigation of unconfined turbulent premixed bluff-body stabilized flames operated with vapourised liquid fuels. <i>Combustion and Flame</i> , 2021, 227, 428-442.	2.8	14
138	Numerical Investigation of Edge Flame Propagation Behavior in an Igniting Turbulent Planar Jet. <i>Combustion Science and Technology</i> , 2010, 182, 1747-1781.	1.2	13
139	A forced ignition probability analysis method using LES and Lagrangian particle monitoring. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 2919-2925.	2.4	13
140	Experimental investigation of turbulent flames in uniform dispersions of ethanol droplets. <i>Combustion and Flame</i> , 2017, 179, 95-116.	2.8	13
141	Soot particle size distribution measurements in a turbulent ethylene swirl flame. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2691-2699.	2.4	13
142	An Introduction to Turbulent Reacting Flows. , 2007, , .		13
143	Mixing enhancement in axisymmetric turbulent isothermal and buoyant jets. <i>Experiments in Fluids</i> , 1996, 20, 279-290.	1.1	12
144	Investigation of the $\tau$ -TECFLAM-Non-premixed Flame Using Large Eddy Simulation and Proper Orthogonal Decomposition. <i>Flow, Turbulence and Combustion</i> , 2013, 90, 219-241.	1.4	12

#	ARTICLE	IF	CITATIONS
145	Spark ignition of single bluff-body premixed flames and annular combustors. , 2013, , .		12
146	Autoignition of n-decane Droplets in the Low-, Intermediate-, and High-temperature Regimes from a Mixture Fraction Viewpoint. <i>Flow, Turbulence and Combustion</i> , 2016, 96, 1107-1121.	1.4	12
147	Direct Numerical Simulations of Dual-Fuel Non-Premixed Autoignition. <i>Combustion Science and Technology</i> , 2016, 188, 542-555.	1.2	12
148	The effect of fuel composition on swirling kerosene flames. , 2017, , .		12
149	Comprehensive soot particle size distribution modelling of a model Rich-Quench-Lean burner. <i>Fuel</i> , 2020, 270, 117483.	3.4	12
150	Estimates of the stochasticity of droplet dispersion by a cough. <i>Physics of Fluids</i> , 2021, 33, 115130.	1.6	12
151	The conceptual development of a simple scale-adaptive reactive pollutant dispersion model. <i>Atmospheric Environment</i> , 2005, 39, 2787-2794.	1.9	11
152	Simulation of the evolution of aircraft exhaust plumes including detailed chemistry and segregation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	11
153	Numerical simulation of shale gas flow in three-dimensional fractured porous media. <i>Journal of Unconventional Oil and Gas Resources</i> , 2016, 16, 90-112.	3.5	11
154	Dynamics of acoustically forced non-premixed flames close to blow-off. <i>Experimental Thermal and Fluid Science</i> , 2018, 95, 81-87.	1.5	11
155	Reduction of the RACM scheme using Computational Singular Perturbation Analysis. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	10
156	Modelling of Spray Flames with Doubly Conditional Moment Closure. <i>Flow, Turbulence and Combustion</i> , 2017, 99, 933-954.	1.4	10
157	Response of flames with different degrees of premixedness to acoustic oscillations. <i>Combustion Science and Technology</i> , 2018, 190, 1426-1441.	1.2	10
158	Low-Order Modeling of Combustion Noise in an Aero-Engine: The Effect of Entropy Dispersion. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	0.5	10
159	Assessment of experimental observables for local extinction through unsteady laminar flame calculations. <i>Combustion and Flame</i> , 2019, 207, 196-204.	2.8	10
160	Soot Emission Simulations of a Single Sector Model Combustor Using Incompletely Stirred Reactor Network Modeling. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	0.5	10
161	Experimental and numerical investigation of an ultra-low NO <sub>x</sub> methane reactor. <i>Energy Procedia</i> , 2017, 120, 214-221.	1.8	9
162	LES/CMC Modelling of a Gas Turbine Model Combustor with Quick Fuel Mixing. <i>Flow, Turbulence and Combustion</i> , 2019, 102, 909-930.	1.4	9

#	ARTICLE	IF	CITATIONS
163	Turbulent Combustion: Concepts, Governing Equations and Modeling Strategies. Fluid Mechanics and Its Applications, 2011, , 19-39.	0.1	8
164	Autoignition of monodisperse biodiesel and diesel sprays in turbulent flows. Experimental Thermal and Fluid Science, 2012, 43, 40-46.	1.5	8
165	Numerical Investigation of Ignition Performance of a Lean Burn Combustor at Sub-Atmospheric Conditions. , 2014, , .		8
166	Simulations of laminar non-premixed flames of kerosene with hot combustion products as oxidiser. Combustion Theory and Modelling, 2016, 20, 958-973.	1.0	8
167	Low-order modeling of high-altitude relight of jet engine combustors. International Journal of Spray and Combustion Dynamics, 2021, 13, 20-34.	0.4	8
168	The development and application of a fast-response DC-coupled flame ionization current sensor. Experiments in Fluids, 1993, 14, 316-320.	1.1	7
169	Experimental Investigation of Soot Production and Oxidation in a Lab-Scale Richâ€œQuenchâ€œLean (RQL) Burner. Flow, Turbulence and Combustion, 2021, 106, 1019-1041.	1.4	7
170	Development of a moving point source model for shipping emission dispersion modeling in EPISODEâ€œCityChem v1.3. Geoscientific Model Development, 2021, 14, 4509-4534.	1.3	7
171	The Origin of Turbulence Acquired by Heavy Particles in a round, turbulent jet. Particle and Particle Systems Characterization, 1990, 7, 203-208.	1.2	6
172	Numerical investigation of methane combustion under mixed air-steam turbine conditionsâ€œFLAMESEEK. Applied Thermal Engineering, 2004, 24, 1607-1618.	3.0	6
173	Numerical simulations of homogeneous charge compression ignition engines with high levels of residual gas. International Journal of Engine Research, 2007, 8, 63-78.	1.4	6
174	Numerical Simulation of Autoignition of a Diluted Hydrogen Plume in Co-Flowing Turbulent Hot Air. , 2010, , .		6
175	Experimental Investigation of the Response of Premixed and Non-premixed Turbulent Flames to Acoustic Forcing. , 2016, , .		6
176	Lean Blow-Off Scaling of Turbulent Premixed Bluff-Body Flames of Vaporized Liquid Fuels. Journal of Propulsion and Power, 2021, 37, 479-486.	1.3	6
177	Proper Orthogonal Decomposition Analysis of a Turbulent Swirling Self-Excited Premixed Flame. , 2015, , .		5
178	On the bi-stable nature of turbulent premixed bluff-body stabilized flames at elevated pressure and near lean blow-off. Proceedings of the Combustion Institute, 2021, 38, 2853-2860.	2.4	5
179	A-Priori Validation of Scalar Dissipation Rate Models for Turbulent Non-Premixed Flames. Flow, Turbulence and Combustion, 2021, 107, 201-218.	1.4	5
180	Spark Ignition in a Turbulent Shearless Fuel-Air Mixing Layer: Average Flame Growth Rates. , 2009, , .		4

#	ARTICLE	IF	CITATIONS
181	Visualisation of blow-off events of two interacting turbulent premixed flames. , 2013, , .		4
182	Ignition Probability and Lean Ignition Behavior of a Swirled Premixed Bluff Body Stabilized Annular Combustor. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	4
183	Reduced chemical mechanisms for atmospheric pollution using Computational Singular Perturbation analysis. Atmospheric Environment, 2004, 38, 3661-3661.	1.9	3
184	Understanding methane flame kinetics from reduced mechanisms. International Journal of Alternative Propulsion, 2007, 1, 216.	0.9	3
185	Spark ignition of turbulent non-premixed flames: experiments and simulations. AIP Conference Proceedings, 2009, , .	0.3	3
186	Simulations of Spark Ignition of a Swirling n-Heptane Spray Flame with Conditional Moment Closure. , 2010, , .		3
187	LES/CMC Predictions of Spark Ignition Probability in a Liquid Fuelled Swirl Combustor. , 2013, , .		3
188	Laser-induced breakdown spectroscopy measurements in turbulent methane flames. , 2014, , .		3
189	Lean Blowoff Scaling of Swirling, Bluff-Body Stabilized Spray Flames. , 2018, , .		3
190	Numerical Investigation of Flame Structure and Soot Formation in a Lab-Scale Rich-Quench-Lean Burner. , 2018, , .		3
191	Polydispersity Effects in Low-order Ignition Modeling of Jet Fuel Sprays. Combustion Science and Technology, 2022, 194, 258-271.	1.2	3
192	Numerical investigation of lean blow-out of kerosene spray flames with detailed chemical models. , 2019, , .		3
193	Incompletely Stirred Reactor Network Modeling of a Model Gas Turbine Combustor. , 2020, , .		3
194	Effects of droplet size on the ignition of conventional and alternative jet fuels in turbulent air. , 2018, , .		3
195	Low-order modelling of the light-round ignition transient in a premixed annular combustor. Combustion Theory and Modelling, 0, , 1-23.	1.0	3
196	Planar Laser Diagnostics at High Repetition Rates: Acquisition and Analysis of Transient Combustion Processes. , 2008, , .		2
197	A lab-scale Rich-Quench-Lean (RQL) combustor for stability and soot investigations. , 2018, , .		2
198	Investigation of the effect of dilution air on soot production and oxidation in a lab scale Rich-Quench-Lean (RQL) burner. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
199	MILD Combustion Limit Phenomena. <i>Frontiers in Mechanical Engineering</i> , 2020, 5, .	0.8	2
200	Visualization of Counterflow Flames. , 1992, , 580-584.		2
201	Lean Blowout Studies. , 2021, , 143-196.		2
202	Autoignition of isolated <i>n</i> -heptane droplets in air and hot combustion products at microturbine conditions. <i>Combustion Theory and Modelling</i> , 2022, 26, 541-559.	1.0	2
203	Autoignition of Liquid Fuel Droplets in a Turbulent Cross-Flow of Air. , 2011, , .		1
204	Conditional Moment Closure LES Modelling of an Aero-Engine Combustor at Relight Conditions. , 2011, , .		1
205	A Simple Model of Off-Stoichiometric Premixed Fuel Rich Spray Flames with Droplet Evaporation and Pyrolysis. <i>International Journal of Spray and Combustion Dynamics</i> , 2012, 4, 97-122.	0.4	1
206	Direct Numerical Simulations of Heptane Spray Autoignition in Methane-air Mixtures Relevant to Dual-fuel Engines. , 2014, , .		1
207	Conditional moment closure for two-phase flows – A review of recent developments and application to various spray combustion configurations. , 2015, , .		1
208	Forced Response of Flames in a Bluff-Body Stabilized Annular Combustor. , 2017, , .		1
209	Transient Behavior of Kerosene Flames in a Bluff-Body Stabilized Swirl Combustor. , 2017, , .		1
210	Forced ignition of dispersions of liquid fuel in turbulent air flow. , 2017, , .		1
211	Investigation of Flame Structure and Soot Formation in a Single Sector Model Combustor Using Experiments and Numerical Simulations Based on the LES/CMC Approach. , 2017, , .		1
212	Blow-off mechanism in a turbulent premixed bluff-body stabilized flame with pre-vaporized fuels. , 2019, , .		1
213	A Systems-Level Study of Various Passenger Aircraft Electrification Scenarios. , 2019, , .		1
214	Validation of a low-order model for ignition of sprays. , 2019, , .		1
215	The structure of spherical flames in turbulent two-phase flows as revealed by OH and fuel PLIF. , 2019, , .		1
216	Simulating the blowoff transient of a swirling, bluff body-stabilized kerosene spray flame using detailed chemistry. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
217	LES/CMC of blow-off in a liquid fueled swirl burner. , 2012, , .		1
218	Spark Ignition of Turbulent Premixed and Non-premixed Opposed Jet Flames. , 2006, , .		0
219	Flame Propagation Following the Autoignition of Axisymmetric Hydrogen, Acetylene and Normal-Heptane Plumes in Turbulent Co-Flows of Hot Air. , 2006, , 843.		0
220	Simulations of the Chemical Transformations In a Jet Engine Exhaust Plume. , 2010, , .		0
221	Spark ignition and expansion of a turbulent non-premixed bluff-body methane flame using Large Eddy Simulations. , 2011, , .		0
222	A comparison of the blow-off behaviour of swirl-stabilized premixed and spray flames. , 2012, , .		0
223	Simulations of kerosene droplet combustion in vitiated air. , 2016, , .		0
224	Low-Order Modelling of Combustion Noise in an Aero-Engine: The Effect of Entropy Dispersion. , 2017, , .		0
225	Advances in Turbulence, Heat and Mass Transfer Preface. Flow, Turbulence and Combustion, 2019, 103, 845-846.	1.4	0
226	An assessment of the uncertainty involved in predictions of energy consumption and carbon emissions from future fully-electrified aircraft. , 2019, , .		0
227	Conditional Moment Closure Approaches for Simulating Soot and NOx in a Heavy-Duty Diesel Engine. , 0, , .		0
228	LES/CMC of Forced Ignition of a Bluff-Body Stabilised Non-premixed Methane Flame. ERCOFTAC Series, 2010, , 361-366.	0.1	0
229	Direct numerical simulations of n-heptane spray autoignition in the low-temperature regime. , 2013, , .		0
230	Lean blow-off investigation in a linear multi-burner combustor operated in premixed and non-premixed modes. Applications in Energy and Combustion Science, 2021, , 100041.	0.9	0