Matthew J Dunn

List of Publications by Year
in descending order

31	1,348	361413 20	434195 31
papers	citations	h-index	g-index

31	31	31	680
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the Effects of Carbon Dioxide as a Diluent on Precursor Nanoparticles and Soot in Axi-symmetric Laminar Coflow Diffusion Flames. Combustion Science and Technology, 2022, 194, 946-962.	2.3	2
2	Effects of ammonia and hydrogen on the sooting characteristics of laminar coflow flames of ethylene and methane. Fuel, 2022, 307, 121914.	6.4	35
3	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.	3.9	13
4	Spontaneous Ramanâ€“LIFâ€“COâ€“OH measurements of species concentration in turbulent spray flames. Proceedings of the Combustion Institute, 2021, 38, 1779-1786.	3.9	4
5	Soot formation in turbulent flames of ethylene/hydrogen/ammonia. Combustion and Flame, 2021, 226, 315-324.	5.2	33
6	On the effects of varying coflow oxygen on soot and precursor nanoparticles in ethylene laminar diffusion flames. Fuel, 2021, 300, 120913.	6.4	3
7	Heat release zones in turbulent, moderately dense spray flames of ethanol and biodiesel. Combustion and Flame, 2020, 220, 298-311.	5.2	15
8	Effects of shear inhomogeneities on the structure of turbulent premixed flames. Combustion and Flame, 2019, 208, 63-78.	5.2	9
9	Soot inception in laminar coflow diffusion flames. Combustion and Flame, 2019, 205, 180-192.	5.2	27
10	The influence of fuel type and partial premixing on the structure and behaviour of turbulent autoigniting flames. Proceedings of the Combustion Institute, 2019, 37, 2277-2285.	3.9	4
11	Structure of a stratified CH4 flame with H2 addition. Proceedings of the Combustion Institute, 2019, 37, 2307-2315.	3.9	11
12	The evolution of autoignition kernels in turbulent flames of dimethyl ether. Combustion and Flame, 2018, 197, 182-196.	5.2	10
13	Stabilisation of turbulent auto-igniting dimethyl ether jet flames issuing into a hot vitiated coflow. Proceedings of the Combustion Institute, 2017, 36, 1661-1668.	3.9	21
14	Fuel effects on the stability of turbulent flames with compositionally inhomogeneous inlets. Proceedings of the Combustion Institute, 2017, 36, 1777-1784.	3.9	16
15	Multiple conditioned analysis of the turbulent stratified flame A. Proceedings of the Combustion Institute, 2017, 36, 1947-1955.	3.9	11
16	Tracking the evolution of soot particles and precursors in turbulent flames using laser-induced emission. Proceedings of the Combustion Institute, 2017, 36, 1869-1876.	3.9	25
17	Detection of nanostructures and soot in laminar premixed flames. Combustion and Flame, 2017, 176, 299-308.	5.2	49
18	Preferential transport effects in premixed bluff-body stabilized CH4/H2 flames. Combustion and Flame, 2015, 162, 727-735.	5.2	31

#	Article	IF	Citations
19	Investigation of flame propagation in a partially premixed jet by high-speed-Stereo-PIV and acetone-PLIF. Proceedings of the Combustion Institute, 2015, 35, 3773-3781.	3.9	37
20	Large Eddy Simulation of a premixed jet flame stabilized by a vitiated co-flow: Evaluation of auto-ignition tabulated chemistry. Combustion and Flame, 2013, 160, 2879-2895.	5.2	26
21	Multiply conditioned analyses of stratification in highly swirling methane/air flames. Combustion and Flame, 2013, 160, 322-334.	5.2	46
22	Effects of preferential transport and strain in bluff body stabilized lean and rich premixed CH4/air flames. Proceedings of the Combustion Institute, 2013, 34, 1411-1419.	3.9	34
23	Effects of preferential transport in turbulent bluff-body-stabilized lean premixed CH4/air flames. Combustion and Flame, 2012, 159, 2563-2575.	5.2	129
24	The structure of turbulent stratified and premixed methane/air flames II: Swirling flows. Combustion and Flame, 2012, 159, 2912-2929.	5.2	136
25	The structure of turbulent stratified and premixed methane/air flames I: Non-swirling flows. Combustion and Flame, 2012, 159, 2896-2911.	5.2	136
26	On the structure of the near field of oxy-fuel jet flames using Raman/Rayleigh laser diagnostics. Combustion and Flame, 2012, 159, 3342-3352.	5.2	29
27	Large Eddy Simulations of a piloted lean premix jet flame using finite-rate chemistry. Combustion Theory and Modelling, 2011, 15, 537-568.	1.9	113
28	A comparative analysis of flame surface density metrics inpremixed and stratified flames. Proceedings of the Combustion Institute, 2011, 33, 1419-1427.	3.9	35
29	Finite Rate Chemistry Effects in Highly Sheared Turbulent Premixed Flames. Flow, Turbulence and Combustion, 2010, 85, 621-648.	2.6	81
30	The compositional structure of highly turbulent piloted premixed flames issuing into a hot coflow. Proceedings of the Combustion Institute, 2009, 32, 1779-1786.	3.9	85
31	A new piloted premixed jet burner to study strong finite-rate chemistry effects. Combustion and Flame, 2007, 151, 46-60.	5.2	142