Vince McDonell

List of Publications by Year
in descending order

23	815	623734	677142
papers	citations	14 h-index	22 g-index

24	24	24	491
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fuel Flexibility Influences on Premixed Combustor Blowout, Flashback, Autoignition, and Stability. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	1.1	233
2	Burner Development and Operability Issues Associated with Steady Flowing Syngas Fired Combustors. Combustion Science and Technology, 2008, 180, 1169-1192.	2.3	154
3	Influence of hydrogen addition to pipeline natural gas on the combustion performance of a cooktop burner. International Journal of Hydrogen Energy, 2019, 44, 12239-12253.	7.1	100
4	Boundary layer flashback of non-swirling premixed flames: Mechanisms, fundamental research, and recent advances. Progress in Energy and Combustion Science, 2017, 61, 249-292.	31.2	50
5	Experimental assessment of the combustion performance of an oven burner operated on pipeline natural gas mixed with hydrogen. International Journal of Hydrogen Energy, 2019, 44, 26049-26062.	7.1	47
6	Combustion performance of low-NOx and conventional storage water heaters operated on hydrogen enriched natural gas. International Journal of Hydrogen Energy, 2020, 45, 2405-2417.	7.1	28
7	Assessment of the combustion performance of a room furnace operating on pipeline natural gas mixed with simulated biogas or hydrogen. International Journal of Hydrogen Energy, 2020, 45, 11368-11379.	7.1	25
8	Flashback and Turbulent Flame Speed Measurements in Hydrogen/Methane Flames Stabilized by a Low-Swirl Injector at Elevated Pressures and Temperatures. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	20
9	Influence of Burner Material, Tip Temperature, and Geometrical Flame Configuration on Flashback Propensity of H2-Air Jet Flames. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	20
10	Direct emissions of nitrous oxide from combustion of gaseous fuels. International Journal of Hydrogen Energy, 2017, 42, 711-719.	7.1	20
11	Emissions and stability performance of a low-swirl burner operated on simulated biogas fuels in a boiler environment. Applied Thermal Engineering, 2018, 130, 1507-1519.	6.0	20
12	Flashback Propensity of Turbulent Hydrogenâ€“Air Jet Flames at Gas Turbine Premixer Conditions. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	19
13	Study of Fuel Composition Effects on Flashback Using a Confined Jet Flame Burner. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	18
14	Study of Fuel Composition, Burner Material, and Tip Temperature Effects on Flashback of Enclosed Jet Flame. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	14
15	Investigation of visible light emission from hydrogen-air research flames. International Journal of Hydrogen Energy, 2019, 44, 22347-22354.	7.1	14
16	Decarbonized combustion performance of a radiant mesh burner operating on pipeline natural gas mixed with hydrogen. International Journal of Hydrogen Energy, 2022, 47, 18551-18565.	7.1	7
17	Application of a Turbulent Jet Flame Flashback Propensity Model to a Commercial Gas Turbine Combustor. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	6
18	Modal extraction of spatiotemporal atomization data using a deep convolutional Koopman network. Physics of Fluids, 2021, 33, .	4.0	6

#	Article	IF	Citations
19	Comparison of Two Methods to Predict Boundary Layer Flashback Limits of Turbulent Hydrogen-Air Jet Flames. Flow, Turbulence and Combustion, 2018, 100, 849-873.	2.6	4
20	Towards Improved Boundary Layer Flashback Resistance of a 65 kW Gas Turbine With a Retrofittable Injector Concept. , 2018, , .		3
21	Parametric Analysis of Flashback Propensity With Various Fuel Compositions and Burner Materials. , 2015, , .		2
22	Assessment of a Rich-Burn, Quick-Mix, Lean-Burnâ€“Based Supplemental Burner System in a Vitiated Air Stream. Combustion Science and Technology, 2016, 188, 397-415.	2.3	2
23	Residential Fuel Transition and Fuel Interchangeability in Current Self-Aspirating Combustion Applications: Historical Development and Future Expectations. Energies, 2022, 15, 3547.	3.1	1