

Vince McDonell

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

815
citations

623734

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24
all docs

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docs citations

24
times ranked

491
citing authors

#	ARTICLE	IF	CITATIONS
1	Decarbonized combustion performance of a radiant mesh burner operating on pipeline natural gas mixed with hydrogen. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 18551-18565.	7.1	7
2	Residential Fuel Transition and Fuel Interchangeability in Current Self-Aspirating Combustion Applications: Historical Development and Future Expectations. <i>Energies</i> , 2022, 15, 3547.	3.1	1
3	Modal extraction of spatiotemporal atomization data using a deep convolutional Koopman network. <i>Physics of Fluids</i> , 2021, 33, .	4.0	6
4	Combustion performance of low-NOx and conventional storage water heaters operated on hydrogen enriched natural gas. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2405-2417.	7.1	28
5	Assessment of the combustion performance of a room furnace operating on pipeline natural gas mixed with simulated biogas or hydrogen. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11368-11379.	7.1	25
6	Experimental assessment of the combustion performance of an oven burner operated on pipeline natural gas mixed with hydrogen. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 26049-26062.	7.1	47
7	Investigation of visible light emission from hydrogen-air research flames. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22347-22354.	7.1	14
8	Influence of hydrogen addition to pipeline natural gas on the combustion performance of a cooktop burner. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12239-12253.	7.1	100
9	Comparison of Two Methods to Predict Boundary Layer Flashback Limits of Turbulent Hydrogen-Air Jet Flames. <i>Flow, Turbulence and Combustion</i> , 2018, 100, 849-873.	2.6	4
10	Emissions and stability performance of a low-swirl burner operated on simulated biogas fuels in a boiler environment. <i>Applied Thermal Engineering</i> , 2018, 130, 1507-1519.	6.0	20
11	Towards Improved Boundary Layer Flashback Resistance of a 65 kW Gas Turbine With a Retrofittable Injector Concept. , 2018, , .		3
12	Direct emissions of nitrous oxide from combustion of gaseous fuels. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 711-719.	7.1	20
13	Application of a Turbulent Jet Flame Flashback Propensity Model to a Commercial Gas Turbine Combustor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2017, 139, .	1.1	6
14	Boundary layer flashback of non-swirling premixed flames: Mechanisms, fundamental research, and recent advances. <i>Progress in Energy and Combustion Science</i> , 2017, 61, 249-292.	31.2	50
15	Assessment of a Rich-Burn, Quick-Mix, Lean-Burn-Based Supplemental Burner System in a Vitiated Air Stream. <i>Combustion Science and Technology</i> , 2016, 188, 397-415.	2.3	2
16	Flashback Propensity of Turbulent Hydrogen-Air Jet Flames at Gas Turbine Premixer Conditions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, .	1.1	19
17	Parametric Analysis of Flashback Propensity With Various Fuel Compositions and Burner Materials. , 2015, , .		2
18	Flashback and Turbulent Flame Speed Measurements in Hydrogen/Methane Flames Stabilized by a Low-Swirl Injector at Elevated Pressures and Temperatures. <i>Journal of Engineering for Gas Turbines and Power</i> , 2014, 136, .	1.1	20

#	ARTICLE	IF	CITATIONS
19	Influence of Burner Material, Tip Temperature, and Geometrical Flame Configuration on Flashback Propensity of H ₂ -Air Jet Flames. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	20
20	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
21	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
22	Burner Development and Operability Issues Associated with Steady Flowing Syngas Fired Combustors. Combustion Science and Technology, 2008, 180, 1169-1192.	2.3	154
23	Fuel Flexibility Influences on Premixed Combustor Blowout, Flashback, Autoignition, and Stability. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	1.1	233