

Richard Marsh

List of Publications by Year in descending order

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59
papers

1,620
citations

361045

20
h-index

301761

39
g-index

60
all docs

60
docs citations

60
times ranked

1145
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonia-methane combustion in tangential swirl burners for gas turbine power generation. Applied Energy, 2017, 185, 1362-1371.	5.1	269
2	Premixed ammonia/hydrogen swirl combustion under rich fuel conditions for gas turbines operation. International Journal of Hydrogen Energy, 2019, 44, 8615-8626.	3.8	161
3	Ammonia, Methane and Hydrogen for Gas Turbines. Energy Procedia, 2015, 75, 118-123.	1.8	135
4	Influence of steam addition and elevated ambient conditions on NO _x reduction in a staged premixed swirling NH ₃ /H ₂ flame. Proceedings of the Combustion Institute, 2019, 37, 5401-5409.	2.4	119
5	Numerical study assessing various ammonia/methane reaction models for use under gas turbine conditions. Fuel, 2017, 196, 344-351.	3.4	86
6	Biomass co-firing trials on a down-fired utility boiler. Energy Conversion and Management, 2013, 66, 285-294.	4.4	58
7	Evaluation of Methods for Measuring Particulate Matter Emissions from Gas Turbines. Environmental Science & Technology, 2011, 45, 3562-3568.	4.6	56
8	Dissociative influence of H ₂ O vapour/spray on lean blowoff and NO _x reduction for heavily carbonaceous syngas swirling flames. Combustion and Flame, 2017, 177, 37-48.	2.8	51
9	An investigation of ammonia primary flame combustor concepts for emissions reduction with OH*, NH ₂ * and NH* chemiluminescence at elevated conditions. Proceedings of the Combustion Institute, 2021, 38, 6451-6459.	2.4	51
10	Effect of inlet and outlet configurations on blow-off and flashback with premixed combustion for methane and a high hydrogen content fuel in a generic swirl burner. Applied Energy, 2014, 116, 288-296.	5.1	48
11	Emissions characterization tests for hydrotreated renewable jet fuel from used cooking oil and its blends. Applied Energy, 2017, 201, 84-93.	5.1	45
12	EFFERVESCENT ATOMIZATION FOR INDUSTRIAL ENERGY-TECHNOLOGY REVIEW. Atomization and Sprays, 2010, 20, 525-552.	0.3	45
13	Properties of jet engine combustion particles during the PartEmis experiment: Microphysics and Chemistry. Geophysical Research Letters, 2003, 30, .	1.5	37
14	Lean methane flame stability in a premixed generic swirl burner: Isothermal flow and atmospheric combustion characterization. Experimental Thermal and Fluid Science, 2018, 92, 125-140.	1.5	36
15	Premixed methane oxycombustion in nitrogen and carbon dioxide atmospheres: measurement of operating limits, flame location and emissions. Proceedings of the Combustion Institute. Proceedings of the Combustion Institute, 2017, 36, 3949-3958.	2.4	33
16	Combustion characteristics of biodiesel saturated with pyrolysis oil for power generation in gas turbines. Renewable Energy, 2016, 99, 443-451.	4.3	31
17	Development and investigation of a non-catalytic self-aspirating meso-scale premixed burner integrated thermoelectric power generator. Energy Conversion and Management, 2016, 117, 431-441.	4.4	30
18	The effects of particle grinding on the burnout and surface chemistry of coals in a drop tube furnace. Fuel, 2015, 160, 413-423.	3.4	25

#	ARTICLE	IF	CITATIONS
19	Characterization of Additive Layer Manufacturing Swirl Burner Surface Roughness and Its Effects on Flame Stability Using High-Speed Diagnostics. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	0.5	25
20	Opportunities to improve the utilisation of granulated coals for blast furnace injection. Fuel, 2015, 151, 40-49.	3.4	21
21	Emissions Performance of Staged Premixed and Diffusion Combustor Concepts for an NH ₃ /Air Flame With and Without Reactant Humidification. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	21
22	Effect of exhaust confinement and fuel type upon the blowoff limits and fuel switching ability of swirl combustors. Applied Thermal Engineering, 2012, 48, 426-435.	3.0	20
23	Experimental study on the impact of reactant gas pressure in the conversion of coal char to combustible gas products in the context of Underground Coal Gasification. Fuel, 2015, 159, 508-518.	3.4	19
24	Thermal distributive blast furnace gas characterisation, a steelworks case study. Applied Thermal Engineering, 2013, 53, 358-365.	3.0	17
25	Laminar flame speed and markstein length characterisation of steelworks gas blends. Applied Energy, 2014, 136, 1026-1034.	5.1	13
26	Sensitivity to change in laminar burning velocity and Markstein length resulting from variable hydrogen fraction in blast furnace gas for changing ambient conditions. International Journal of Hydrogen Energy, 2013, 38, 3459-3470.	3.8	10
27	CFD Analysis of the Fluidised Bed Hydrodynamic Behaviour inside an Isothermal Gasifier with different Perforated Plate Distributors. Energy Procedia, 2017, 142, 835-840.	1.8	10
28	Investigating char agglomeration in blast furnace coal injection. Fuel Processing Technology, 2018, 178, 24-34.	3.7	10
29	Kinetics and Performance of Raw and Torrefied Biomass in a Continuous Bubbling Fluidized Bed Gasifier. Waste and Biomass Valorization, 2019, 10, 1365-1381.	1.8	10
30	A Comparison of the Pyrolysis of Olive Kernel Biomass in Fluidised and Fixed Bed Conditions. Waste and Biomass Valorization, 2017, 8, 1273-1284.	1.8	9
31	A comparison of partially burnt coal chars and the implications of their properties on the blast furnace process. Fuel Processing Technology, 2018, 176, 230-239.	3.7	9
32	Measurement of heat transfer and change in compressive strength of waste derived solid fuels due to devolatilisation. Fuel, 2008, 87, 1724-1733.	3.4	8
33	The effect of variable fuel composition on a swirl-stabilised producer gas combustor. Energy Conversion and Management, 2012, 64, 52-61.	4.4	8
34	Augmenting the Structures in a Swirling Flame via Diffusive Injection. Journal of Combustion, 2014, 2014, 1-16.	0.5	8
35	Methane-Oxygen Flame Stability in a Generic Premixed Gas Turbine Swirl Combustor at Varying Thermal Power and Pressure. , 2015, , .		8
36	Applicability of the Peclet number approach to blow-off and flashback limits of common steelworks process gases. Fuel, 2016, 182, 531-540.	3.4	8

#	ARTICLE	IF	CITATIONS
37	Catalytic Influence of Water Vapor on Lean Blow-Off and NO _x Reduction for Pressurized Swirling Syngas Flames. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	7
38	The Use of CO ₂ to Improve Stability and Emissions of an IGCC Combustor. , 2014, , .		6
39	Impacts on Blowoff by a Variety of CRZs Using Various Gases for Gas Turbines. Energy Procedia, 2014, 61, 1606-1609.	1.8	6
40	Experimental Study to Enhance Resistance for Boundary Layer Flashback in Swirl Burners Using Microsurfaces. , 2017, , .		6
41	A Comparison of Laboratory Coal Testing with the Blast Furnace Process and Coal Injection. Metals, 2021, 11, 1476.	1.0	6
42	Life Cycle Assessment of Solid Recovered Fuel Gasification in the State of Qatar. ChemEngineering, 2021, 5, 81.	1.0	5
43	Laminar Burning Velocity and Markstein Length Characterisation of Compositionally Dynamic Blast Furnace Gas. , 2012, , .		4
44	Experimental Analysis of Confinement and Swirl Effects on Premixed CH ₄ -H ₂ Flame Behavior in a Pressurized Generic Swirl Burner. , 2017, , .		4
45	A waste heat recovery strategy and its deployment: an integrated steelworks case study. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2021, 174, 3-11.	0.9	4
46	Degradation of Recycled Polyethylene Film Materials Due to Contamination Encountered in the Products' Life Cycle. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2006, 220, 593-602.	1.1	3
47	Thermal degradation of polyethylene film materials due to successive recycling. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2006, 220, 1099-1108.	1.1	3
48	Preliminary Results from a High Pressure Optical gas Turbine Combustor Model with 3D Viewing Capability. , 2015, , .		3
49	Integrating Hypersonics into a Combustion Test Facility with 3D Viewing Capability. , 2015, , .		3
50	Biomass and waste co-firing in large-scale combustion systems. Proceedings of Institution of Civil Engineers: Energy, 2008, 161, 115-126.	0.5	2
51	Reprint of "Effect of exhaust confinement and fuel type upon the blowoff limits and fuel switching ability of swirl combustors" Applied Thermal Engineering, 2013, 53, 348-357.	3.0	2
52	Variation in Laminar Burning Velocity and Markstein Length With Water Addition for Industrially Produced Syngases. , 2014, , .		2
53	Experimental Investigation of the Effects of Central Fuel Injectors on Premixed Swirling Flames. , 2015, , .		2
54	Developing Effervescent Atomisation for Alternative Fuels. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
55	Evaluation of Transport Line Effects on PM Size Distribution for Aircraft Exhaust for Different Flow Regimes and Dilution Methodology. , 2012, , .		1
56	Evaluation of a Particulate Sampling Methodology From a Gas Turbine Exhaust Using Real-Time Size and Number Analysis at Simulated Aircraft Conditions. , 2010, , .		0
57	Temperature measurement of gas turbine swirling flames using tomographic imaging techniques. , 2015, , .		0
58	Combustion Blowoff Effects on the Central Recirculation Zone using various Syngas mixtures in a Tangential Swirl Burner. , 2016, , .		0
59	Differential Mobility Spectrometer Particle Emission Analysis for Multiple Aviation Gas Turbine Engine Exhausts at High and Low Power Conditions and a Simulated Gas Turbine Engine Exhaust. , 2014, , .		0