Richard Marsh

List of Publications by Year
in descending order

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	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
2	An investigation of ammonia primary flame combustor concepts for emissions reduction with OH*, NH2* and NH* chemiluminescence at elevated conditions. Proceedings of the Combustion Institute, 2021, 38, 6451-6459.	2.4	51
3	Emissions Performance of Staged Premixed and Diffusion Combustor Concepts for an NH3/Air Flame With and Without Reactant Humidification. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	21
4	A Comparison of Laboratory Coal Testing with the Blast Furnace Process and Coal Injection. Metals, 2021, 11, 1476.	1.0	6
5	Life Cycle Assessment of Solid Recovered Fuel Gasification in the State of Qatar. ChemEngineering, 2021, 5, 81.	1.0	5
6	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
7	Influence of steam addition and elevated ambient conditions on NOx reduction in a staged premixed swirling NH3/H2 flame. Proceedings of the Combustion Institute, 2019, 37, 5401-5409.	2.4	119
8	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
9	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
10	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
11	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
12	Catalytic Influence of Water Vapor on Lean Blow-Off and NOx Reduction for Pressurized Swirling Syngas Flames. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	7
13	Investigating char agglomeration in blast furnace coal injection. Fuel Processing Technology, 2018, 178, 24-34.	3.7	10
14	Ammoniaâ€“methane combustion in tangential swirl burners for gas turbine power generation. Applied Energy, 2017, 185, 1362-1371.	5.1	269
15	Numerical study assessing various ammonia/methane reaction models for use under gas turbine conditions. Fuel, 2017, 196, 344-351.	3.4	86
16	Emissions characterization tests for hydrotreated renewable jet fuel from used cooking oil and its blends. Applied Energy, 2017, 201, 84-93.	5.1	45
17	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
18	Experimental Analysis of Confinement and Swirl Effects on Premixed CH4-H2 Flame Behavior in a Pressurized Generic Swirl Burner. , 2017, , .		4

#	Article	IF	Citations
19	Experimental Study to Enhance Resistance for Boundary Layer Flashback in Swirl Burners Using Microsurfaces. , 2017, , .		6
20	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
21	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
22	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
23	Combustion characteristics of biodiesel saturated with pyrolysis oil for power generation in gas turbines. Renewable Energy, 2016, 99, 443-451.	4.3	31
24	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
25	Combustion Blowoff Effects on the Central Recirculation Zone using various Syngas mixtures in a Tangential Swirl Burner. , 2016, , .		0
26	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
27	Preliminary Results from a High Pressure Optical gas Turbine Combustor Model with 3D Viewing Capability. , 2015, , .		3
28	Methane-Oxygen Flame Stability in a Generic Premixed Gas Turbine Swirl Combustor at Varying Thermal Power and Pressure. , 2015, , .		8
29	Opportunities to improve the utilisation of granulated coals for blast furnace injection. Fuel, 2015, 151, 40-49.	3.4	21
30	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
31	Integrating Hypersonics into a Combustion Test Facility with 3D Viewing Capability. , 2015, , .		3
32	Ammonia, Methane and Hydrogen for Gas Turbines. Energy Procedia, 2015, 75, 118-123.	1.8	135
33	Experimental Investigation of the Effects of Central Fuel Injectors on Premixed Swirling Flames. , 2015, , .		2
34	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
35	Temperature measurement of gas turbine swirling flames using tomographic imaging techniques. , 2015, , .		0
36	The Use of CO2 to Improve Stability and Emissions of an IGCC Combustor. , 2014, , .		6

#	Article	IF	Citations
37	Augmenting the Structures in a Swirling Flame via Diffusive Injection. Journal of Combustion, 2014, 2014, 1-16.	0.5	8
38	Impacts on Blowoff by a Variety of CRZs Using Various Gases for Gas Turbines. Energy Procedia, 2014, 61, 1606-1609.	1.8	6
39	Variation in Laminar Burning Velocity and Markstein Length With Water Addition for Industrially Produced Syngases. , 2014, , .		2
40	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
41	Laminar flame speed and markstein length characterisation of steelworks gas blends. Applied Energy, 2014, 136, 1026-1034.	5.1	13
42	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
43	Reprint of â€œEffect of exhaust confinement and fuel type upon the blowoff limits and fuel switching ability of swirl combustorsâ€. Applied Thermal Engineering, 2013, 53, 348-357.	3.0	2
44	Biomass co-firing trials on a down-fired utility boiler. Energy Conversion and Management, 2013, 66, 285-294.	4.4	58
45	Thermal distributive blast furnace gas characterisation, a steelworks case study. Applied Thermal Engineering, 2013, 53, 358-365.	3.0	17
46	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
47	Developing Effervescent Atomisation for Alternative Fuels. , 2012, , .		1
48	Laminar Burning Velocity and Markstein Length Characterisation of Compositionally Dynamic Blast Furnace Gas. , 2012, , .		4
49	The effect of variable fuel composition on a swirl-stabilised producer gas combustor. Energy Conversion and Management, 2012, 64, 52-61.	4.4	8
50	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
51	Evaluation of Transport Line Effects on PM Size Distribution for Aircraft Exhaust for Different Flow Regimes and Dilution Methodology. , 2012, , .		1
52	Evaluation of Methods for Measuring Particulate Matter Emissions from Gas Turbines. Environmental Science & Technology, 2011, 45, 3562-3568.	4.6	56
53	Evaluation of a Particulate Sampling Methodology From a Gas Turbine Exhaust Using Real-Time Size and Number Analysis at Simulated Aircraft Conditions. , 2010, , .		0
54	EFFERVESCENT ATOMIZATION FOR INDUSTRIAL ENERGY-TECHNOLOGY REVIEW. Atomization and Sprays, 2010, 20, 525-552.	0.3	45

#	Article	IF	Citations
55	Measurement of heat transfer and change in compressive strength of waste derived solid fuels due to devolatisation. Fuel, 2008, 87, 1724-1733.	3.4	8
56	Biomass and waste co-firing in large-scale combustion systems. Proceedings of Institution of Civil Engineers: Energy, 2008, 161, 115-126.	0.5	2
57	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
58	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
59	Properties of jet engine combustion particles during the PartEmis experiment: Microphysics and Chemistry. Geophysical Research Letters, 2003, 30, .	1.5	37