

Tim O'Doherty

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,712
citations

361413

20
h-index

276875

41
g-index

48
all docs

48
docs citations

48
times ranked

1119
citing authors

#	ARTICLE	IF	CITATIONS
1	Vortex breakdown: a review. <i>Progress in Energy and Combustion Science</i> , 2001, 27, 431-481.	31.2	659
2	Phase averaging of the precessing vortex core in a swirl burner under piloted and premixed combustion conditions. <i>Combustion and Flame</i> , 1995, 100, 407-410.	5.2	95
3	The effect of hydrogen containing fuel blends upon flashback in swirl burners. <i>Applied Energy</i> , 2012, 89, 106-110.	10.1	85
4	Non-dimensional scaling of tidal stream turbines. <i>Energy</i> , 2012, 44, 820-829.	8.8	82
5	The effect of tidal flow directionality on tidal turbine performance characteristics. <i>Renewable Energy</i> , 2015, 78, 609-620.	8.9	62
6	Influence of a velocity profile & support structure on tidal stream turbine performance. <i>Renewable Energy</i> , 2013, 52, 23-30.	8.9	61
7	Wave-current interaction effects on tidal stream turbine performance and loading characteristics. <i>International Journal of Marine Energy</i> , 2016, 14, 161-179.	1.8	50
8	Constraints on extractable power from energetic tidal straits. <i>Renewable Energy</i> , 2015, 81, 707-722.	8.9	45
9	Analysis of a Horizontal-Axis Tidal Turbine Performance in the Presence of Regular and Irregular Waves Using Two Control Strategies. <i>Energies</i> , 2019, 12, 367.	3.1	33
10	Phase-averaged velocity in a fluidic precessing jet nozzle and in its near external field. <i>Experimental Thermal and Fluid Science</i> , 2003, 27, 515-524.	2.7	32
11	THE EFFECT OF COMBUSTION INSTABILITY ON THE STRUCTURE OF RECIRCULATION ZONES IN CONFINED SWIRLING FLAMES. <i>Combustion Science and Technology</i> , 2005, 177, 2349-2371.	2.3	32
12	The impact of axial flow misalignment on a tidal turbine. <i>Renewable Energy</i> , 2017, 113, 1333-1344.	8.9	31
13	Energy Yield Assessment from Ocean Currents in the Insular Shelf of Cozumel Island. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 147.	2.6	27
14	CFD modelling of a tidal stream turbine subjected to profiled flow and surface gravity waves. <i>International Journal of Marine Energy</i> , 2016, 15, 156-174.	1.8	26
15	Turbulent flow in a 90° pipe junction. <i>Computers and Fluids</i> , 2000, 29, 215-233.	2.5	24
16	Turbulent flow in a 90° pipe junction. <i>Computers and Fluids</i> , 2000, 29, 197-213.	2.5	24
17	Evaluation of the swirl characteristics of a tidal stream turbine wake. <i>International Journal of Marine Energy</i> , 2016, 14, 198-214.	1.8	23
18	Analysis of a bayonet tube heat exchanger. <i>Applied Thermal Engineering</i> , 2001, 21, 1-18.	6.0	22

#	ARTICLE	IF	CITATIONS
19	The impact of turbulence and turbine operating condition on the wakes of tidal turbines. <i>Renewable Energy</i> , 2021, 165, 96-116.	8.9	22
20	The effect of initial conditions on the exit flow from a fluidic precessing jet nozzle. <i>Experiments in Fluids</i> , 2004, 36, 70-81.	2.4	20
21	Effect of exhaust confinement and fuel type upon the blowoff limits and fuel switching ability of swirl combustors. <i>Applied Thermal Engineering</i> , 2012, 48, 426-435.	6.0	20
22	Kinetic energy extraction of a tidal stream turbine and its sensitivity to structural stiffness attenuation. <i>Renewable Energy</i> , 2016, 88, 30-39.	8.9	20
23	Validation of Tidal Stream Turbine Wake Predictions and Analysis of Wake Recovery Mechanism. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 362.	2.6	18
24	Thermal distributive blast furnace gas characterisation, a steelworks case study. <i>Applied Thermal Engineering</i> , 2013, 53, 358-365.	6.0	17
25	Optimisation of heat transfer enhancement devices in a bayonet tube heat exchanger. <i>Applied Thermal Engineering</i> , 2001, 21, 19-36.	6.0	16
26	The development, design and characterisation of a scale model Horizontal Axis Tidal Turbine for dynamic load quantification. <i>Renewable Energy</i> , 2020, 156, 913-930.	8.9	16
27	Flume testing of passively adaptive composite tidal turbine blades under combined wave and current loading. <i>Journal of Fluids and Structures</i> , 2020, 93, 102825.	3.4	15
28	Tidal turbine deployment in the Bristol Channel: a case study. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2010, 163, 93-105.	0.6	14
29	Analysis of the effects of control strategies and wave climates on the loading and performance of a laboratory scale horizontal axis tidal turbine. <i>Ocean Engineering</i> , 2020, 212, 107713.	4.3	14
30	Laminar flame speed and markstein length characterisation of steelworks gas blends. <i>Applied Energy</i> , 2014, 136, 1026-1034.	10.1	13
31	Performance assessment of a tidal turbine using two flow references. <i>Renewable Energy</i> , 2020, 153, 624-633.	8.9	11
32	Sensitivity to change in laminar burning velocity and Markstein length resulting from variable hydrogen fraction in blast furnace gas for changing ambient conditions. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3459-3470.	7.1	10
33	Validation of the dynamic load characteristics on a Tidal Stream Turbine when subjected to wave and current interaction. <i>Ocean Engineering</i> , 2021, 222, 108360.	4.3	10
34	Numerical study of the effect of tip-speed ratio on hydrokinetic turbine wake recovery. <i>Renewable Energy</i> , 2022, 182, 725-750.	8.9	10
35	Considerations of a horizontal axis tidal turbine. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2010, 163, 119-130.	0.6	9
36	A detailed study of tidal turbine power production and dynamic loading under grid generated turbulence and turbine wake operation. <i>Renewable Energy</i> , 2021, 169, 1422-1439.	8.9	9

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37	Low-Frequency Combustion Oscillations in a Swirl Burner/Furnace. Journal of Propulsion and Power, 2006, 22, 217-221.	2.2	8
38	A Phenomenological Study of Lab-Scale Tidal Turbine Loading under Combined Irregular Wave and Shear Flow Conditions. Journal of Marine Science and Engineering, 2021, 9, 593.	2.6	7
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	Laminar Burning Velocity and Markstein Length Characterisation of Compositionally Dynamic Blast Furnace Gas. , 2012, , .		4
41	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.	0.8	4
42	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.	6.0	2
43	Variation in Laminar Burning Velocity and Markstein Length With Water Addition for Industrially Produced Syngases. , 2014, , .		2
44	The Development of Marine Energy Extraction. Journal of Marine Science and Engineering, 2020, 8, 321.	2.6	0
45	An Introduction to Fluid Structural Interaction for Tidal Turbine Design and Optimization. , 2021, , 245-245.		0
46	Optimising the Combustion of Low Calorific Value Gases by Utilising Transient Flow Phenomena in Swirl Burners. Clean Air, 2002, 3, 21-51.	0.0	0