

Tadhg O Donovan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

857
citations

15
h-index

28
g-index

41
ext. papers

1,005
ext. citations

5.5
avg, IF

4.79
L-index

#	Paper	IF	Citations
39	Jet impingement heat transfer [Part I: Mean and root-mean-square heat transfer and velocity distributions. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 3291-3301	4.9	147
38	Electrical-thermal analysis of III-V triple-junction solar cells under variable spectra and ambient temperatures. <i>Solar Energy</i> , 2015 , 118, 533-546	6.8	73
37	Natural convection heat transfer from two horizontal cylinders. <i>Experimental Thermal and Fluid Science</i> , 2008 , 32, 1702-1709	3	70
36	Performance analysis of an evacuated multi-stage solar water desalination system. <i>Desalination</i> , 2012 , 288, 80-92	10.3	66
35	Jet impingement heat transfer [Part II: A temporal investigation of heat transfer and local fluid velocities. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 3302-3314	4.9	62
34	An optical analysis of a static 3-D solar concentrator. <i>Solar Energy</i> , 2013 , 88, 57-70	6.8	41
33	High dynamic velocity range particle image velocimetry using multiple pulse separation imaging. <i>Sensors</i> , 2011 , 11, 1-18	3.8	35
32	Fluctuating fluid flow and heat transfer of an obliquely impinging air jet. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 6169-6179	4.9	35
31	Heat transfer enhancement to a confined impinging synthetic air jet. <i>Applied Thermal Engineering</i> , 2013 , 51, 468-475	5.8	34
30	Modelling and experimental investigations of microcracks in crystalline silicon photovoltaics: A review. <i>Renewable Energy</i> , 2020 , 145, 2387-2408	8.1	29
29	A theoretical analysis of the impact of atmospheric parameters on the spectral, electrical and thermal performance of a concentrating III-V triple-junction solar cell. <i>Energy Conversion and Management</i> , 2016 , 117, 218-227	10.6	28
28	Surface heat transfer due to sliding bubble motion. <i>Applied Thermal Engineering</i> , 2009 , 29, 1319-1326	5.8	24
27	Spectral Corrections Based on Air Mass, Aerosol Optical Depth, and Precipitable Water for CPV Performance Modeling. <i>IEEE Journal of Photovoltaics</i> , 2016 , 6, 1598-1604	3.7	20
26	Temperature stabilisation in Fischer-Tropsch reactors using phase change material (PCM). <i>Applied Thermal Engineering</i> , 2016 , 93, 1377-1393	5.8	18
25	Multiphysics modelling and experimental validation of high concentration photovoltaic modules. <i>Energy Conversion and Management</i> , 2017 , 139, 122-134	10.6	17
24	Performance of a concentrating photovoltaic monomodule under real operating conditions: Part I Outdoor characterisation. <i>Energy Conversion and Management</i> , 2017 , 154, 311-321	10.6	15
23	A review of thermal load and performance characterisation of a high concentrating photovoltaic (HCPV) solar receiver assembly. <i>Solar Energy</i> , 2020 , 206, 35-51	6.8	14

22	Heat Transfer in Adjacent Interacting Impinging Synthetic Jets 2009 ,		12
21	Modelling of the thermal behaviour of solar high concentrating photovoltaic receiver. <i>Thermal Science and Engineering Progress</i> , 2019 , 9, 281-288	3.6	11
20	Analysis of thermal response and electrical characterisation of triple-junction solar cells based on variable solar spectral irradiance and air mass. <i>Thermal Science and Engineering Progress</i> , 2019 , 10, 269-279	3.6	10
19	Dynamic Modeling of Fixed-Bed Fischer-Tropsch Reactors with Phase Change Material Diluents. <i>Chemical Engineering and Technology</i> , 2016 , 39, 2066-2076	2	10
18	Comparative analysis of parameter extraction techniques for the electrical characterization of multi-junction CPV and m-Si technologies. <i>Solar Energy</i> , 2018 , 160, 275-288	6.8	9
17	The impact of atmospheric parameters on the spectral performance of multiple photovoltaic technologies 2015 ,		8
16	Design and experimental analysis of a static 3-D elliptical hyperboloid concentrator for process heat applications. <i>Solar Energy</i> , 2014 , 102, 257-266	6.8	8
15	Bubble Enhanced Heat Transfer from a Vertical Heated Surface. <i>Journal of Enhanced Heat Transfer</i> , 2008 , 15, 159-169	1.7	8
14	Spectral Correction of CPV Modules Equipped with GaInP/GaInAs/Ge Solar Cells and Fresnel Lenses. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 842	2.6	7
13	An Integrated Thermal Electrical Model for Single Cell Photovoltaic Receivers Under Concentration 2014 ,		7
12	Effect of thermal load on performance parameters of solar concentrating photovoltaic: High-efficiency solar cells. <i>Energy and Built Environment</i> , 2021 , 3, 201-201	6.3	7
11	2015 ,		6
10	Heat transfer and air temperature measurements of an impinging synthetic air jet 2009 ,		6
9	A numerical simulation of heat transfer in an enclosure with a nonlinear heat source. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 71, 1081-1093	2.3	4
8	Transient thermal-electrical performance modelling of solar concentrating photovoltaic (CPV) receiver. <i>Solar Energy</i> , 2020 , 211, 897-907	6.8	4
7	Performance of a concentrating photovoltaic monomodule under real operating conditions: Part II [Power rating. <i>Energy Conversion and Management</i> , 2018 , 156, 329-336	10.6	4
6	Energy yield assessment of a high concentration photovoltaic receiver based on simulated spectra from typical meteorological year datasets 2016 ,		2
5	Dynamic performance analysis of solar concentrating photovoltaic receiver by coupling of weather data with the thermal-electrical model. <i>Thermal Science and Engineering Progress</i> , 2021 , 24, 100923	3.6	2

4	Convective Heat Transfer in a Helical Coil Solar Thermal Collector 2010 ,		1
3	Heat Transfer Characteristics of Swirling Impinging Jets 2009 ,		1
2	Influence of still design and modelling of the behaviour of volatile terpenes in an artificial model gin. <i>Food and Bioproducts Processing</i> , 2021 , 129, 46-64	4.9	1
1	Effect of Thermal Boundary Condition on Heat Dissipation due to Swirling Jet Impingement on a Heated Plate. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012039		0.3