Tadhg O Donovan

List of Publications by Year in Descending Order

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	Dynamic performance analysis of solar concentrating photovoltaic receiver by coupling of weather data with the thermal-electrical model. *Thermal Science and Engineering Progress*, **2021**, 24, 100923	3.6	2
38	Influence of still design and modelling of the behaviour of volatile terpenes in an artificial model gin. *Food and Bioproducts Processing*, **2021**, 129, 46-64	4.9	1
37	Effect of thermal load on performance parameters of solar concentrating photovoltaic: High-efficiency solar cells. *Energy and Built Environment*, **2021**, 3, 201-201	6.3	7
36	A review of thermal load and performance characterisation of a high concentrating photovoltaic (HCPV) solar receiver assembly. *Solar Energy*, **2020**, 206, 35-51	6.8	14
35	Transient thermal-electrical performance modelling of solar concentrating photovoltaic (CPV) receiver. *Solar Energy*, **2020**, 211, 897-907	6.8	4
34	Modelling and experimental investigations of microcracks in crystalline silicon photovoltaics: A review. *Renewable Energy*, **2020**, 145, 2387-2408	8.1	29
33	Analysis of thermal response and electrical characterisation of triple-junction solar cells based on variable solar spectral irradiance and air mass. *Thermal Science and Engineering Progress*, **2019**, 10, 269-279	3.6	10
32	Modelling of the thermal behaviour of solar high concentrating photovoltaic receiver. *Thermal Science and Engineering Progress*, **2019**, 9, 281-288	3.6	11
31	Comparative analysis of parameter extraction techniques for the electrical characterization of multi-junction CPV and m-Si technologies. *Solar Energy*, **2018**, 160, 275-288	6.8	9
30	Performance of a concentrating photovoltaic monomodule under real operating conditions: Part II Power rating. *Energy Conversion and Management*, **2018**, 156, 329-336	10.6	4
29	Multiphysics modelling and experimental validation of high concentration photovoltaic modules. *Energy Conversion and Management*, **2017**, 139, 122-134	10.6	17
28	Performance of a concentrating photovoltaic monomodule under real operating conditions: Part I Outdoor characterisation. *Energy Conversion and Management*, **2017**, 154, 311-321	10.6	15
27	A numerical simulation of heat transfer in an enclosure with a nonlinear heat source. *Numerical Heat Transfer; Part A: Applications*, **2017**, 71, 1081-1093	2.3	4
26	Spectral Correction of CPV Modules Equipped with GaInP/GaInAs/Ge Solar Cells and Fresnel Lenses. *Applied Sciences (Switzerland)*, **2017**, 7, 842	2.6	7
25	Dynamic Modeling of Fixed-Bed Fischer-Tropsch Reactors with Phase Change Material Diluents. *Chemical Engineering and Technology*, **2016**, 39, 2066-2076	2	10
24	Energy yield assessment of a high concentration photovoltaic receiver based on simulated spectra from typical meteorological year datasets **2016**,		2
23	Temperature stabilisation in Fischer Tropsch reactors using phase change material (PCM). *Applied Thermal Engineering*, **2016**, 93, 1377-1393	5.8	18

22	Spectral Corrections Based on Air Mass, Aerosol Optical Depth, and Precipitable Water for CPV Performance Modeling. *IEEE Journal of Photovoltaics*, **2016**, 6, 1598-1604	3.7	20
21	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. *Energy Conversion and Management*, **2016**, 117, 218-227	10.6	28
20	Electrical-thermal analysis of III□V triple-junction solar cells under variable spectra and ambient temperatures. *Solar Energy*, **2015**, 118, 533-546	6.8	73
19	The impact of atmospheric parameters on the spectral performance of multiple photovoltaic technologies **2015**,		8
18	**2015**,		6
17	Design and experimental analysis of a static 3-D elliptical hyperboloid concentrator for process heat applications. *Solar Energy*, **2014**, 102, 257-266	6.8	8
16	An Integrated Thermal Electrical Model for Single Cell Photovoltaic Receivers Under Concentration **2014**,		7
15	An optical analysis of a static 3-D solar concentrator. *Solar Energy*, **2013**, 88, 57-70	6.8	41
14	Heat transfer enhancement to a confined impinging synthetic air jet. *Applied Thermal Engineering*, **2013**, 51, 468-475	5.8	34
13	Performance analysis of an evacuated multi-stage solar water desalination system. *Desalination*, **2012**, 288, 80-92	10.3	66
12	Effect of Thermal Boundary Condition on Heat Dissipation due to Swirling Jet Impingement on a Heated Plate. *Journal of Physics: Conference Series*, **2012**, 395, 012039	0.3	
11	High dynamic velocity range particle image velocimetry using multiple pulse separation imaging. *Sensors*, **2011**, 11, 1-18	3.8	35
10	Convective Heat Transfer in a Helical Coil Solar Thermal Collector **2010**,		1
9	Heat Transfer in Adjacent Interacting Impinging Synthetic Jets **2009**,		12
8	Surface heat transfer due to sliding bubble motion. *Applied Thermal Engineering*, **2009**, 29, 1319-1326	5.8	24
7	Heat Transfer Characteristics of Swirling Impinging Jets **2009**,		1
6	Heat transfer and air temperature measurements of an impinging synthetic air jet **2009**,		6
5	Natural convection heat transfer from two horizontal cylinders. *Experimental Thermal and Fluid Science*, **2008**, 32, 1702-1709	3	70

4	Fluctuating fluid flow and heat transfer of an obliquely impinging air jet. *International Journal of Heat and Mass Transfer*, **2008**, 51, 6169-6179	4.9	35
3	Bubble Enhanced Heat Transfer from a Vertical Heated Surface. *Journal of Enhanced Heat Transfer*, **2008**, 15, 159-169	1.7	8
2	Jet impingement heat transfer Part I: Mean and root-mean-square heat transfer and velocity distributions. *International Journal of Heat and Mass Transfer*, **2007**, 50, 3291-3301	4.9	147
1	Jet impingement heat transfer Part II: A temporal investigation of heat transfer and local fluid velocities. *International Journal of Heat and Mass Transfer*, **2007**, 50, 3302-3314	4.9	62