

# Douglas Barbin

## List of Publications by Year in Descending Order

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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.

51  
papers

699  
citations

15  
h-index

24  
g-index

58  
ext. papers

848  
ext. citations

5  
avg, IF

4.2  
L-index

#	Paper	IF	Citations
51	A biomass universal district heating model for sustainability evaluation for geographical areas with early experience. <i>Energy</i> , <b>2022</b> , 242, 122954	7.9	0
50	Experimental analysis of late direct injection combustion mode in a compression-ignition engine fuelled with biodiesel/diesel blends. <i>Energy</i> , <b>2022</b> , 239, 121895	7.9	2
49	Energy poverty in Andalusia. An analysis through decentralised indicators. <i>Energy Policy</i> , <b>2022</b> , 167, 113083		0
48	Energetic and economic analysis of decoupled strategy for heating and cooling production with CO2 booster heat pumps for ultra-low temperature district network. <i>Journal of Building Engineering</i> , <b>2021</b> , 45, 103538	5.2	1
47	Confinement, Comfort and Health: Analysis of the Real Influence of Lockdown on University Students during the COVID-19 Pandemic. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	3
46	Tools for the Implementation of the Sustainable Development Goals in the Design of an Urban Environmental and Healthy Proposal. A Case Study. <i>Sustainability</i> , <b>2021</b> , 13, 6431	3.6	2
45	Sustainability of Spanish Tourism Start-Ups in the Face of an Economic Crisis. <i>Sustainability</i> , <b>2021</b> , 13, 2026	3.6	1
44	Analysis of the integration of photovoltaic excess into a 5th generation district heating and cooling system for network energy storage. <i>Energy</i> , <b>2021</b> , 239, 122202	7.9	3
43	Environmental Comfort as a Sustainable Strategy for Housing Integration: The AURA 1.0 Prototype for Social Housing. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7734	2.6	8
42	Energetic Valorisation of Olive Biomass: Olive-Tree Pruning, Olive Stones and Pomaces. <i>Processes</i> , <b>2020</b> , 8, 511	2.9	32
41	Incorporation of the Intangibles into the Spanish Start-Ups by Activity Sector and Region. Improving Their Economic Sustainability. <i>Sustainability</i> , <b>2020</b> , 12, 4268	3.6	2
40	Methodology to Evaluate the Embodied Primary Energy and CO2 Production at Each Stage of the Life Cycle of Prefabricated Structural Systems: The Case of the Solar Decathlon Competition. <i>Energies</i> , <b>2020</b> , 13, 4311	3.1	6
39	Health and Habitability in the Solar Decathlon University Competitions: Statistical Quantification and Real Influence on Comfort Conditions. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	10
38	Vegetable oils as renewable fuels for power plants based on low and medium speed diesel engines. <i>Journal of the Energy Institute</i> , <b>2020</b> , 93, 953-961	5.7	11
37	Metal Accumulation by L. Adult Plants Grown on Heavy Metal-Contaminated Soil. <i>Plants</i> , <b>2020</b> , 9,	4.5	10
36	Determination of the Acidity of Waste Cooking Oils by Near Infrared Spectroscopy. <i>Processes</i> , <b>2019</b> , 7, 304	2.9	11
35	Men vs. women world marathon records Timing strategies from 1998 to 2018. <i>European Journal of Sport Science</i> , <b>2019</b> , 19, 1297-1302	3.9	8

34	Production of Oxygenated Fuel Additives from Residual Glycerine Using Biocatalysts Obtained from Heavy-Metal-Contaminated <i>Jatropha curcas</i> L. Roots. <i>Energies</i> , <b>2019</b> , 12, 740	3.1	12
33	Esterification of Free Fatty Acids with Glycerol within the Biodiesel Production Framework. <i>Processes</i> , <b>2019</b> , 7, 832	2.9	13
32	Numerical Simulation of a Wall-Flow Particulate Filter Made of Biomorphic Silicon Carbide Able to Fit Different Fuel/Biofuel Inputs. <i>Processes</i> , <b>2019</b> , 7, 945	2.9	1
31	Pacing and Performance in the 6 World Marathon Majors. <i>Frontiers in Sports and Active Living</i> , <b>2019</b> , 1, 54	2.3	4
30	Failure analysis of an overhead valve train system in urban buses. <i>Engineering Failure Analysis</i> , <b>2019</b> , 96, 455-467	3.2	4
29	Simulation of HCCI combustion in air-cooled off-road engines fuelled with diesel and biodiesel. <i>Journal of the Energy Institute</i> , <b>2018</b> , 91, 549-562	5.7	8
28	Thermodynamic Model for Performance Analysis of a Stirling Engine Prototype. <i>Energies</i> , <b>2018</b> , 11, 2655	3.1	12
27	Fully optimized energy management for propulsion, thermal cooling and auxiliaries of a serial hybrid electric vehicle. <i>Applied Thermal Engineering</i> , <b>2015</b> , 91, 694-705	5.8	16
26	Numerical study of HCCI combustion fueled with diesel oil using a multizone model approach. <i>Energy Conversion and Management</i> , <b>2015</b> , 89, 885-895	10.6	15
25	Measurement and analysis of instantaneous torque and angular velocity variations of a low speed two stroke diesel engine. <i>Mechanical Systems and Signal Processing</i> , <b>2014</b> , 49, 135-153	7.8	17
24	Analysis of regulation methods of a combined heat and power plant based on gas turbines. <i>Energy</i> , <b>2014</b> , 72, 574-589	7.9	15
23	Experimental analysis of low temperature combustion mode with diesel and biodiesel fuels: A method for reducing NOx and soot emissions. <i>Fuel Processing Technology</i> , <b>2012</b> , 103, 57-63	7.2	51
22	Methodology for the estimation of head inner surface temperature in an air-cooled engine. <i>Applied Thermal Engineering</i> , <b>2012</b> , 35, 202-211	5.8	1
21	Supercritical Water Oxidation of Oily Wastes at Pilot Plant: Simulation for Energy Recovery. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 775-784	3.9	34
20	A methodology for cracks identification in large crankshafts. <i>Mechanical Systems and Signal Processing</i> , <b>2011</b> , 25, 3168-3185	7.8	18
19	Infantry mobility hybrid electric vehicle performance analysis and design. <i>Applied Energy</i> , <b>2011</b> , 88, 2641-2652	2.7	12
18	Failure analysis of reciprocating compressor crankshafts. <i>Engineering Failure Analysis</i> , <b>2011</b> , 18, 735-746	3.2	24
17	Analysis of a new analytical law of heat release rate (HRR) for homogenous charge compression ignition (HCCI) combustion mode versus analytical parameters. <i>Applied Thermal Engineering</i> , <b>2011</b> , 31, 458-466	5.8	10

16	Methodology for the estimation of cylinder inner surface temperature in an air-cooled engine. <i>Applied Thermal Engineering</i> , <b>2011</b> , 31, 1474-1481	5.8	10
15	Prediction of performance, energy savings and increase in profitability of two gas turbine steam generator cogeneration plant, based on experimental data. <i>Energy</i> , <b>2011</b> , 36, 742-754	7.9	17
14	Experimental and dynamic system simulation and optimization of a centrifugal pump-coupling-engine system. Part 1: Failure identification. <i>Engineering Failure Analysis</i> , <b>2011</b> , 18, 1-11	3.2	2
13	Analysis of main gaseous emissions of heavy duty gas turbines burning several syngas fuels. <i>Fuel Processing Technology</i> , <b>2011</b> , 92, 213-220	7.2	40
12	Optimal design of acoustic material from tire fluff. <i>Materials &amp; Design</i> , <b>2011</b> , 32, 3608-3616		14
11	Analysis of a diesel generator cylinder failure. <i>Engineering Failure Analysis</i> , <b>2010</b> , 17, 913-925	3.2	6
10	Experimental and dynamic system simulation and optimization of a centrifugal pump-coupling-engine system. Part 2: System design. <i>Engineering Failure Analysis</i> , <b>2010</b> , 17, 1551-1559	3.2	1
9	The viability of pure vegetable oil as an alternative fuel for large ships. <i>Transportation Research, Part D: Transport and Environment</i> , <b>2009</b> , 14, 461-469	6.4	32
8	Stirling based fuel cell hybrid systems: An alternative for molten carbonate fuel cells. <i>Journal of Power Sources</i> , <b>2009</b> , 192, 84-93	8.9	40
7	Analysis of a diesel generator crankshaft failure. <i>Engineering Failure Analysis</i> , <b>2009</b> , 16, 2333-2341	3.2	50
6	A new heat release rate (HRR) law for homogeneous charge compression ignition (HCCI) combustion mode. <i>Applied Thermal Engineering</i> , <b>2009</b> , 29, 3654-3662	5.8	29
5	Experimental study of the performances of a modified diesel engine operating in homogeneous charge compression ignition (HCCI) combustion mode versus the original diesel combustion mode. <i>Energy</i> , <b>2009</b> , 34, 159-171	7.9	45
4	Effect of Turbulence and External Exhaust Gas Recirculation on HCCI Combustion Mode and Exhaust Emissions. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 4295-4303	4.1	16
3	Predictive Modeling of a Homogeneous Charge Compression Ignition (HCCI) Engine with EGR Fueled with Diesel. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 5383-5393	4.1	3
2	Combustion Characteristics, Emissions and Heat Release Rate Analysis of a Homogeneous Charge Compression Ignition Engine with Exhaust Gas Recirculation Fuelled with Diesel. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 2396-2404	4.1	8
1	Analysis of the Start of Combustion of a Diesel Fuel in a HCCI Process through an Integral Chemical Kinetic Model and Experimentation. <i>Energy &amp; Fuels</i> , <b>2008</b> , 22, 987-995	4.1	7