

Francisco P Brito

List of Publications by Year in descending order

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49
papers

1,131
citations

567281
15
h-index

434195
31
g-index

49
all docs

49
docs citations

49
times ranked

1044
citing authors

#	ARTICLE	IF	CITATIONS
1	Vanadium redox flow batteries: a technology review. International Journal of Energy Research, 2015, 39, 889-918.	4.5	249
2	Analysis of four-stroke, Wankel, and microturbine based range extenders for electric vehicles. Energy Conversion and Management, 2012, 58, 120-133.	9.2	121
3	PLA Composites Reinforced with Flax and Jute Fibers—A Review of Recent Trends, Processing Parameters and Mechanical Properties. Polymers, 2020, 12, 2373.	4.5	100
4	Alternative Fuels for Internal Combustion Engines. Energies, 2020, 13, 4086.	3.1	62
5	Experimental comparison of the performance of a journal bearing with a single and a twin axial groove configuration. Tribology International, 2012, 54, 1-8.	5.9	55
6	Compact automotive thermoelectric generator with embedded heat pipes for thermal control. Energy, 2020, 197, 117154.	8.8	48
7	Assessment of the use of vanadium redox flow batteries for energy storage and fast charging of electric vehicles in gas stations. Energy, 2016, 115, 1478-1494.	8.8	42
8	Experimental Investigation of the Influence of Supply Temperature and Supply Pressure on the Performance of a Two-Axial Groove Hydrodynamic Journal Bearing. Journal of Tribology, 2007, 129, 98-105.	1.9	39
9	High-Performance $\frac{1}{4}$ -Thermoelectric Device Based on $\text{Bi}_{2\text{Te}_3}/\text{Sb}_{2\text{Te}_3}$ p-n Junctions. ACS Applied Materials & Interfaces, 2019, 11, 38946-38954.	8.0	36
10	The role of lubricant feeding conditions on the performance improvement and friction reduction of journal bearings. Tribology International, 2014, 72, 65-82.	5.9	33
11	Thermoelectric Exhaust Heat Recovery with Heat Pipe-Based Thermal Control. Journal of Electronic Materials, 2015, 44, 1984-1997.	2.2	32
12	Analysis of the Effect of Module Thickness Reduction on Thermoelectric Generator Output. Journal of Electronic Materials, 2016, 45, 1711-1729.	2.2	24
13	Thermoelectric Exhaust Energy Recovery with Temperature Control through Heat Pipes. , 0, , .		23
14	Efficiency improvement of vehicles using temperature controlled exhaust thermoelectric generators. Energy Conversion and Management, 2020, 203, 112255.	9.2	22
15	An experimental study of the influence of loading direction on the thermohydrodynamic behaviour of twin axial groove journal bearing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2011, 225, 245-254.	1.8	21
16	Influence of Heat Pipe Operating Temperature on Exhaust Heat Thermoelectric Generation. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 6, 652-664.	0.4	18
17	Analysis of the effect of grooves in single and twin axial groove journal bearings under varying load direction. Tribology International, 2016, 103, 609-619.	5.9	18
18	Heat-Pipe Assisted Thermoelectric Generators for Exhaust Gas Applications. , 2010, , .		16

#	ARTICLE	IF	CITATIONS
19	Analysis of thermoelectric generator incorporating n-magnesium silicide and p-tetrahedrite materials. Energy Conversion and Management, 2021, 236, 114003.	9.2	16
20	Thermohydrodynamic modelling of journal bearings under varying load angle and negative groove flow rate. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2014, 228, 955-973.	1.8	15
21	Analysis of a Temperature-Controlled Exhaust Thermoelectric Generator During a Driving Cycle. Journal of Electronic Materials, 2016, 45, 1846-1870.	2.2	15
22	Temperature Controlled Exhaust Heat Thermoelectric Generation. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 0, 5, 561-571.	0.3	14
23	A Survey on Electric/Hybrid Vehicles. , 2010, , .		13
24	Measurement and Prediction of Heat Transfer Losses on the XMv3 Rotary Engine. SAE International Journal of Engines, 0, 9, 2368-2380.	0.4	13
25	The role of lubricant feed temperature on the performance of twin groove journal bearings: an experimental study. International Journal of Surface Science and Engineering, 2011, 5, 286.	0.4	10
26	The effect of ambient pressure on the heat transfer of a water spray. Applied Thermal Engineering, 2019, 152, 490-498.	6.0	10
27	Numerical study of twin groove journal bearings performance under steady-state condition. Lubrication Science, 2015, 27, 83-102.	2.1	9
28	Analysis and Design of a Silicide-Tetrahedrite Thermoelectric Generator Concept Suitable for Large-Scale Industrial Waste Heat Recovery. Energies, 2021, 14, 5655.	3.1	8
29	An experimental investigation on the influence of deactivation of a groove on the performance of a twin groove journal bearing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2014, 228, 548-557.	1.8	6
30	Complex Fluid Flow in Microchannels and Heat Pipes with Enhanced Surfaces for Advanced Heat Conversion and Recovery Systems. Energies, 2022, 15, 1478.	3.1	5
31	Modelling of thermoelectric generator with heat pipe assist for range extender application. , 2011, , .		4
32	Development and Assessment of an Over-Expanded Engine to be Used as an Efficiency-Oriented Range Extender for Electric Vehicles. Energies, 2020, 13, 430.	3.1	4
33	Water injection as a way for pollution control. Energy Reports, 2021, 7, 543-549.	5.1	4
34	Assessment of an Exhaust Thermoelectric Generator Incorporating Thermal Control Applied to a Heavy Duty Vehicle. Energies, 2022, 15, 4787.	3.1	4
35	Experimental Investigation of the Influence of Supply Temperature and Supply Pressure on the Performance of a Two Axial Groove Hydrodynamic Journal Bearing. , 2006, , 319.		3
36	A New Rotary Valve for 2-Stroke Engines Enabling Over-Expansion. , 0, , .		3

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37	Performance and Emissions of a Spark Ignition Engine Operated with Gasoline Supplemented with Pyrogasoline and Ethanol. <i>Energies</i> , 2020, 13, 4671.	3.1	3
38	Experimental Assessment of the Performance and Emissions of a Spark-Ignition Engine Using Waste-Derived Biofuels as Additives. <i>Energies</i> , 2021, 14, 5209.	3.1	3
39	Analysis of a New VVT Trapezoidal Rotary Valve. , 0, , .		2
40	Water injection in spark ignition engines—Impact on engine cycle. <i>Energy Reports</i> , 2021, 7, 374-379.	5.1	2
41	Direct water injection and combustion time in SI engines. <i>Energy Reports</i> , 2021, 7, 798-803.	5.1	2
42	Methodology for the Energy Characterization of Type-Approval and Real-World Driving Cycles for Passenger Vehicles. , 2015, , .		1
43	Accident Reconstruction Using Data Retrieval from Crash-Test Video Images. , 0, , .		1
44	Performance of binary and ternary blends of gasoline, pyrogasoline and ethanol in spark ignition engines. <i>Progress in Industrial Ecology</i> , 2021, 1, 1.	0.2	1
45	Hypo-Cycloidal Crank Mechanism to Produce an Over-Expanded Cycle Engine. <i>Mechanisms and Machine Science</i> , 2015, , 221-229.	0.5	1
46	14th European Conference on Thermoelectrics 20-23 September 2016, Lisbon, Portugal Preface. <i>Materials Today: Proceedings</i> , 2018, 5, 10185-10186.	1.8	0
47	Native Over-Expanded Engine Based on a Planetary Crankshaft with Enhanced Balancing. , 0, , .		0
48	Improvement of Engine Performance through Intake Port Modifications Including Dimpling. , 0, , .		0
49	Optimization of Processing Parameters of Compression Molding Process by Application of Taguchi and Minitab. , 2022, 8, .		0