

Jorge Martins

List of Publications by Year in descending order

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44
papers

1,053
citations

623734

14
h-index

477307

29
g-index

44
all docs

44
docs citations

44
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	Characterization of thermal barrier coatings with a gradient in porosity. Surface and Coatings Technology, 2005, 195, 245-251.	4.8	103
4	Alternative Fuels for Internal Combustion Engines. Energies, 2020, 13, 4086.	3.1	62
5	Compact automotive thermoelectric generator with embedded heat pipes for thermal control. Energy, 2020, 197, 117154.	8.8	48
6	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
7	Performance and emissions analysis of additional ethanol injection on a diesel engine powered with A blend of diesel-biodiesel. Energy for Sustainable Development, 2013, 17, 649-657.	4.5	38
8	Thermoelectric Exhaust Heat Recovery with Heat Pipe-Based Thermal Control. Journal of Electronic Materials, 2015, 44, 1984-1997.	2.2	32
9	Tribological solutions for engine piston ring surfaces: an overview on the materials and manufacturing. Materials and Manufacturing Processes, 2020, 35, 498-520.	4.7	31
10	Direct Comparison of an Engine Working under Otto, Miller and Diesel Cycles: Thermodynamic Analysis and Real Engine Performance. , 0, , .		27
11	Analysis of the Effect of Module Thickness Reduction on Thermoelectric Generator Output. Journal of Electronic Materials, 2016, 45, 1711-1729.	2.2	24
12	Thermoelectric Exhaust Energy Recovery with Temperature Control through Heat Pipes. , 0, , .		23
13	Efficiency improvement of vehicles using temperature controlled exhaust thermoelectric generators. Energy Conversion and Management, 2020, 203, 112255.	9.2	22
14	The Development of Gas (CNG, LPG and H2) Engines for Buses and Trucks and their Emission and Cycle Variability Characteristics. , 0, , .		19
15	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
16	Effects of Diethyl Ether Introduction in Emissions and Performance of a Diesel Engine Fueled with Biodiesel-Ethanol Blends. Energies, 2020, 13, 3787.	3.1	17
17	Heat-Pipe Assisted Thermoelectric Generators for Exhaust Gas Applications. , 2010, , .		16
18	Analysis of thermoelectric generator incorporating n-magnesium silicide and p-tetrahedrite materials. Energy Conversion and Management, 2021, 236, 114003.	9.2	16

#	ARTICLE	IF	CITATIONS
19	Analysis of a Temperature-Controlled Exhaust Thermoelectric Generator During a Driving Cycle. Journal of Electronic Materials, 2016, 45, 1846-1870.	2.2	15
20	Temperature Controlled Exhaust Heat Thermoelectric Generation. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 0, 5, 561-571.	0.3	14
21	A Survey on Electric/Hybrid Vehicles. , 2010, , .		13
22	Measurement and Prediction of Heat Transfer Losses on the XMv3 Rotary Engine. SAE International Journal of Engines, 0, 9, 2368-2380.	0.4	13
23	Surface analysis of nanocomposite ceramic coatings. Surface and Interface Analysis, 2003, 35, 723-728.	1.8	10
24	The effect of ambient pressure on the heat transfer of a water spray. Applied Thermal Engineering, 2019, 152, 490-498.	6.0	10
25	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
26	A Comparative Study of Biofuels and Fischerâ€™Tropsch Diesel Blends on the Engine Combustion Performance for Reducing Exhaust Gaseous and Particulate Emissions. Energies, 2021, 14, 1538.	3.1	7
27	Otto and VCR Miller Engine Performance during the European Driving Cycle. , 2006, , .		6
28	FRICTORQ, a Novel Fabric Surface Tester: a Progress Report. Journal of Textile Engineering, 2005, 51, 40-46.	0.2	6
29	Modelling of thermoelectric generator with heat pipe assist for range extender application. , 2011, , .		4
30	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
31	Fischer-Tropsch Diesel and Biofuels Exergy and Energy Analysis for Low Emissions Vehicles. Applied Sciences (Switzerland), 2021, 11, 5958.	2.5	4
32	Experimental Studies on Wood Pellets Combustion in a Fixed Bed Combustor Using Taguchi Method. Fuels, 2021, 2, 376-392.	2.7	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	A New Rotary Valve for 2-Stroke Engines Enabling Over-Expansion. , 0, , .		3
36	Performance and Emissions of a Spark Ignition Engine Operated with Gasoline Supplemented with Pyrogasoline and Ethanol. Energies, 2020, 13, 4671.	3.1	3

#	ARTICLE	IF	CITATIONS
37	Experimental Assessment of the Performance and Emissions of a Spark-Ignition Engine Using Waste-Derived Biofuels as Additives. Energies, 2021, 14, 5209.	3.1	3
38	The Use of Biodiesel on the Performance and Emission Characteristics of Diesel Engined Vehicles. , 0, , .		2
39	Water injection in spark ignition engines”Impact on engine cycle. Energy Reports, 2021, 7, 374-379.	5.1	2
40	Direct water injection and combustion time in SI engines. Energy Reports, 2021, 7, 798-803.	5.1	2
41	Accident Reconstruction Using Data Retrieval from Crash-Test Video Images. , 0, , .		1
42	Performance of binary and ternary blends of gasoline, pyrogasoline and ethanol in spark ignition engines. Progress in Industrial Ecology, 2021, 1, 1.	0.2	1
43	Analysis of the energetic/environmental performances of gas turbine plant: Effect of thermal barrier coatings and mass of cooling air. Thermal Science, 2009, 13, 147-164.	1.1	1
44	Hypo-Cycloidal Crank Mechanism to Produce an Over-Expanded Cycle Engine. Mechanisms and Machine Science, 2015, , 221-229.	0.5	1