Jorge Martins

List of Publications by Year
in descending order

44 papers	1,053 citations	623188 14 h-index	476904 29 g-index
44 all docs	44 docs citations	44 times ranked	1044 citing authors

#	Article	IF	Citations
1	Assessment of an Exhaust Thermoelectric Generator Incorporating Thermal Control Applied to a Heavy Duty Vehicle. Energies, 2022, 15, 4787.	1.6	4
2	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.	1.6	7
3	Analysis of thermoelectric generator incorporating n-magnesium silicide and p-tetrahedrite materials. Energy Conversion and Management, 2021, 236, 114003.	4.4	16
4	Fischer-Tropsch Diesel and Biofuels Exergy and Energy Analysis for Low Emissions Vehicles. Applied Sciences (Switzerland), 2021, 11, 5958.	1.3	4
5	Experimental Assessment of the Performance and Emissions of a Spark-Ignition Engine Using Waste-Derived Biofuels as Additives. Energies, 2021, 14, 5209.	1.6	3
6	Analysis and Design of a Silicide-Tetrahedrite Thermoelectric Generator Concept Suitable for Large-Scale Industrial Waste Heat Recovery. Energies, 2021, 14, 5655.	1.6	8
7	Experimental Studies on Wood Pellets Combustion in a Fixed Bed Combustor Using Taguchi Method. Fuels, 2021, 2, 376-392.	1.3	4
8	Performance of binary and ternary blends of gasoline, pyrogasoline and ethanol in spark ignition engines. Progress in Industrial Ecology, 2021, 1, 1.	0.1	1
9	Water injection as a way for pollution control. Energy Reports, 2021, 7, 543-549.	2.5	4
10	Water injection in spark ignition enginesâ€"Impact on engine cycle. Energy Reports, 2021, 7, 374-379.	2.5	2
11	Direct water injection and combustion time in SI engines. Energy Reports, 2021, 7, 798-803.	2.5	2
12	Efficiency improvement of vehicles using temperature controlled exhaust thermoelectric generators. Energy Conversion and Management, 2020, 203, 112255.	4.4	22
13	Tribological solutions for engine piston ring surfaces: an overview on the materials and manufacturing. Materials and Manufacturing Processes, 2020, 35, 498-520.	2.7	31
14	Performance and Emissions of a Spark Ignition Engine Operated with Gasoline Supplemented with Pyrogasoline and Ethanol. Energies, 2020, 13, 4671.	1.6	3
15	Effects of Diethyl Ether Introduction in Emissions and Performance of a Diesel Engine Fueled with Biodiesel-Ethanol Blends. Energies, 2020, 13, 3787.	1.6	17
16	Alternative Fuels for Internal Combustion Engines. Energies, 2020, 13, 4086.	1.6	62
17	Development and Assessment of an Over-Expanded Engine to be Used as an Efficiency-Oriented Range Extender for Electric Vehicles. Energies, 2020, 13, 430.	1.6	4
18	Compact automotive thermoelectric generator with embedded heat pipes for thermal control. Energy, 2020, 197, 117154.	4.5	48

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19	The effect of ambient pressure on the heat transfer of a water spray. Applied Thermal Engineering, 2019, 152, 490-498.	3.0	10
20	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.	4.5	42
21	Analysis of the Effect of Module Thickness Reduction on Thermoelectric Generator Output. Journal of Electronic Materials, 2016, 45, 1711-1729.	1.0	24
22	Analysis of a Temperature-Controlled Exhaust Thermoelectric Generator During a Driving Cycle. Journal of Electronic Materials, 2016, 45, 1846-1870.	1.0	15
23	Thermoelectric Exhaust Heat Recovery with Heat Pipe-Based Thermal Control. Journal of Electronic Materials, 2015, 44, 1984-1997.	1.0	32
24	Vanadium redox flow batteries: a technology review. International Journal of Energy Research, 2015, 39, 889-918.	2.2	249
25	Hypo-Cycloidal Crank Mechanism to Produce an Over-Expanded Cycle Engine. Mechanisms and Machine Science, 2015, , 221-229.	0.3	1
26	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.	2.0	38
27	Analysis of four-stroke, Wankel, and microturbine based range extenders for electric vehicles. Energy Conversion and Management, 2012, 58, 120-133.	4.4	121
28	Modelling of thermoelectric generator with heat pipe assist for range extender application. , 2011, , .		4
29	Heat-Pipe Assisted Thermoelectric Generators for Exhaust Gas Applications. , 2010, , .		16
30	A Survey on Electric/Hybrid Vehicles. , 2010, , .		13
31	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.	0.5	1
32	Otto and VCR Miller Engine Performance during the European Driving Cycle. , 2006, , .		6
33	Characterization of thermal barrier coatings with a gradient in porosity. Surface and Coatings Technology, 2005, 195, 245-251.	2.2	103
34	FRICTORQ, a Novel Fabric Surface Tester: a Progress Report. Journal of Textile Engineering, 2005, 51, 40-46.	0.5	6
35	Surface analysis of nanocomposite ceramic coatings. Surface and Interface Analysis, 2003, 35, 723-728.	0.8	10
36	The Development of Gas (CNG, LPG and H2) Engines for Buses and Trucks and their Emission and Cycle Variability Characteristics. , 0, , .		19

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37	Direct Comparison of an Engine Working under Otto, Miller and Diesel Cycles: Thermodynamic Analysis and Real Engine Performance. , 0, , .		27
38	Thermoelectric Exhaust Energy Recovery with Temperature Control through Heat Pipes. , 0, , .		23
39	Temperature Controlled Exhaust Heat Thermoelectric Generation. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 0, 5, 561-571.	0.3	14
40	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
41	The Use of Biodiesel on the Performance and Emission Characteristics of Diesel Engined Vehicles. , 0, , .		2
42	Accident Reconstruction Using Data Retrieval from Crash-Test Video Images. , 0, , .		1
43	A New Rotary Valve for 2-Stroke Engines Enabling Over-Expansion. , 0, , .		3
44	Measurement and Prediction of Heat Transfer Losses on the XMv3 Rotary Engine. SAE International Journal of Engines, 0, 9, 2368-2380.	0.4	13