Rafael Lago Sari

List of Publications by Year
in descending order

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40 papers	755 citations	471509 17 h-index	610901 24 g-index
40 all docs	40 docs citations	40 times ranked	407 citing authors

#	Article	IF	Citations
1	Energy assessment of an electrically heated catalyst in a hybrid RCCI truck. Energy, 2022, 238, 121681.	8.8	12
2	Energy sustainability in the transport sector using synthetic fuels in series hybrid trucks with RCCI dual-fuel engine. Fuel, 2022, 308, 122024.	6.4	9
3	Thermal runaway evaluation and thermal performance enhancement of a lithium-ion battery coupling cooling system and battery sub-models. Applied Thermal Engineering, 2022, 202, 117884.	6.0	31
4	Life cycle COâ,, footprint reduction comparison of hybrid and electric buses for bus transit networks. Applied Energy, 2022, 308, 118354.	10.1	20
5	Influence of environmental conditions in the battery thermal runaway process of different chemistries: Thermodynamic and optical assessment. International Journal of Heat and Mass Transfer, 2022, 184, 122381.	4.8	20
6	Pathways to achieve future CO2 emission reduction targets for bus transit networks. Energy, 2022, 244, 123177.	8.8	15
7	Combining in-cylinder pressure and 1D simulation tools to understand the combustion characteristics of natural gas in pre-chamber ignition systems for energy generation. Energy Conversion and Management, 2021, 240, 114262.	9.2	5
8	An optical investigation of thermal runaway phenomenon under thermal abuse conditions. Energy Conversion and Management, 2021, 246, 114663.	9.2	26
9	Use of EGR e-pump for Dual-Mode Dual-Fuel engines in mild hybrid architectures. Energy Conversion and Management, 2021, 247, 114701.	9.2	3
10	Development of a fast-virtual CFR engine model and its use on autoignition studies. Fuel Processing Technology, 2021, 224, 107031.	7.2	6
11	Assessment of a complete truck operating under dual-mode dual-fuel combustion in real life applications: Performance and emissions analysis. Applied Energy, 2020, 279, 115729.	10.1	16
12	A chemical kinetics based investigation on laminar burning velocity and knock occurrence in a spark-ignition engine fueled with ethanolâ€“water blends. Fuel, 2020, 280, 118587.	6.4	15
13	OMEx-diesel blends as high reactivity fuel for ultra-low NOx and soot emissions in the dual-mode dual-fuel combustion strategy. Fuel, 2020, 275, 117898.	6.4	33
14	Clean and efficient dual-fuel combustion using OMEx as high reactivity fuel: Comparison to diesel-gasoline calibration. Energy Conversion and Management, 2020, 216, 112953.	9.2	30
15	Potential of e-Fischer Tropsch diesel and oxymethyl-ether (OMEx) as fuels for the dual-mode dual-fuel concept. Applied Energy, 2019, 253, 113622.	10.1	35
16	Fuel sensitivity effects on dual-mode dual-fuel combustion operation for different octane numbers. Energy Conversion and Management, 2019, 201, 112137.	9.2	18
17	Octane number influence on combustion and performance parameters in a Dual-Mode Dual-Fuel engine. Fuel, 2019, 258, 116140.	6.4	13
18	Performance of a conventional diesel aftertreatment system used in a medium-duty multi-cylinder dual-mode dual-fuel engine. Energy Conversion and Management, 2019, 184, 327-337.	9.2	39

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19	Performance and emissions of a series hybrid vehicle powered by a gasoline partially premixed combustion engine. Applied Thermal Engineering, 2019, 150, 564-575.	6.0	23
20	Exploring optimal operating conditions for wet ethanol use in spark ignition engines. Applied Thermal Engineering, 2018, 138, 523-533.	6.0	33
21	Potential of RCCI Series Hybrid Vehicle Architecture to Meet the Future CO2 Targets with Low Engine-Out Emissions. Applied Sciences (Switzerland), 2018, 8, 1472.	2.5	22
22	Experimental investigation on the efficiency of a diesel oxidation catalyst in a medium-duty multi-cylinder RCCI engine. Energy Conversion and Management, 2018, 176, 1-10.	9.2	24
23	Sizing a conventional diesel oxidation catalyst to be used for RCCI combustion under real driving conditions. Applied Thermal Engineering, 2018, 140, 62-72.	6.0	22
24	Fuel consumption and engine-out emissions estimations of a light-duty engine running in dual-mode RCCI/CDC with different fuels and driving cycles. Energy, 2018, 157, 19-30.	8.8	72
25	Experimental investigation on RCCI heat transfer in a light-duty diesel engine with different fuels: Comparison versus conventional diesel combustion. Applied Thermal Engineering, 2018, 144, 424-436.	6.0	56
26	Comparative analysis of different heat transfer correlations in a two-zone combustion model applied on a SI engine fueled with wet ethanol. Applied Thermal Engineering, 2017, 115, 22-32.	6.0	17
27	Determination of optimal wet ethanol composition as a fuel in spark ignition engine. Applied Thermal Engineering, 2017, 112, 317-325.	6.0	29
28	Analysis of Engine Performance and Combustion Characteristics of Diesel and Biodiesel blends in a Compression Ignition Engine. , 2016, , .		3
29	Modeling and Control of a Low-Cost Driver For an Eddy Current Dynamometer. Journal of Control, Automation and Electrical Systems, 2016, 27, 368-378.	2.0	2
30	Experimental analysis and modeling of internal combustion engine operating with wet ethanol. Fuel, 2015, 158, 270-278.	6.4	43
31	Performance Analysis of a Spark Ignited Engine Running on Different Water-in-Ethanol Mixtures. , 2013, , .		7
32	Cylinder Pressure Based Engine Calibration of a Formula SAE Racing Engine. , 0, , .		2
33	Low Cost Wet Ethanol for Spark-Ignited Engines: Further Investigations. SAE International Journal of Fuels and Lubricants, 0, 8, 367-373.	0.2	16
34	HCCI of Wet Ethanol on a Dedicated Cylinder of a Diesel Engine. , 0, , .		18
35	Investigation of Compression Ratio Effect on Wet Ethanol Use in Spark Ignition Engines. , 0, , .		7
36	Modeling of Reactivity Controlled Compression Ignition Combustion Using a Stochastic Reactor Model Coupled with Detailed Chemistry. , 0, , .		6

#	Article	IF	Citations
37	Evaluating the Efficiency of a Conventional Diesel Oxidation Catalyst for Dual-Fuel RCCI Diesel-Gasoline Combustion. , 0, , .		5
38	Experimental evaluation of the emissions in an Otto cycle engine operating with hydrous and wet ethanol under different compression ratios. , 0, , .		2
39	Surrogate Fuel Formulation to Improve the Dual-Mode Dual-Fuel Combustion Operation at Different Operating Conditions. , 0, , .		0
40	Combining DMDF and Hybrid Powertrains: A Look on the Effects of Different Battery Modelling Approaches. , 0, , .		0