

# Rafael Lago Sari

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Fuel consumption and engine-out emissions estimations of a light-duty engine running in dual-mode RCCI/CDC with different fuels and driving cycles. <i>Energy</i> , 2018, 157, 19-30.	8.8	72
2	Experimental investigation on RCCI heat transfer in a light-duty diesel engine with different fuels: Comparison versus conventional diesel combustion. <i>Applied Thermal Engineering</i> , 2018, 144, 424-436.	6.0	56
3	Experimental analysis and modeling of internal combustion engine operating with wet ethanol. <i>Fuel</i> , 2015, 158, 270-278.	6.4	43
4	Performance of a conventional diesel aftertreatment system used in a medium-duty multi-cylinder dual-mode dual-fuel engine. <i>Energy Conversion and Management</i> , 2019, 184, 327-337.	9.2	39
5	Potential of e-Fischer Tropsch diesel and oxymethyl-ether (OMeX) as fuels for the dual-mode dual-fuel concept. <i>Applied Energy</i> , 2019, 253, 113622.	10.1	35
6	Exploring optimal operating conditions for wet ethanol use in spark ignition engines. <i>Applied Thermal Engineering</i> , 2018, 138, 523-533.	6.0	33
7	OMeX-diesel blends as high reactivity fuel for ultra-low NOx and soot emissions in the dual-mode dual-fuel combustion strategy. <i>Fuel</i> , 2020, 275, 117898.	6.4	33
8	Thermal runaway evaluation and thermal performance enhancement of a lithium-ion battery coupling cooling system and battery sub-models. <i>Applied Thermal Engineering</i> , 2022, 202, 117884.	6.0	31
9	Clean and efficient dual-fuel combustion using OMeX as high reactivity fuel: Comparison to diesel-gasoline calibration. <i>Energy Conversion and Management</i> , 2020, 216, 112953.	9.2	30
10	Determination of optimal wet ethanol composition as a fuel in spark ignition engine. <i>Applied Thermal Engineering</i> , 2017, 112, 317-325.	6.0	29
11	An optical investigation of thermal runaway phenomenon under thermal abuse conditions. <i>Energy Conversion and Management</i> , 2021, 246, 114663.	9.2	26
12	Experimental investigation on the efficiency of a diesel oxidation catalyst in a medium-duty multi-cylinder RCCI engine. <i>Energy Conversion and Management</i> , 2018, 176, 1-10.	9.2	24
13	Performance and emissions of a series hybrid vehicle powered by a gasoline partially premixed combustion engine. <i>Applied Thermal Engineering</i> , 2019, 150, 564-575.	6.0	23
14	Potential of RCCI Series Hybrid Vehicle Architecture to Meet the Future CO2 Targets with Low Engine-Out Emissions. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1472.	2.5	22
15	Sizing a conventional diesel oxidation catalyst to be used for RCCI combustion under real driving conditions. <i>Applied Thermal Engineering</i> , 2018, 140, 62-72.	6.0	22
16	Life cycle CO <sub>2</sub> footprint reduction comparison of hybrid and electric buses for bus transit networks. <i>Applied Energy</i> , 2022, 308, 118354.	10.1	20
17	Influence of environmental conditions in the battery thermal runaway process of different chemistries: Thermodynamic and optical assessment. <i>International Journal of Heat and Mass Transfer</i> , 2022, 184, 122381.	4.8	20
18	HCCI of Wet Ethanol on a Dedicated Cylinder of a Diesel Engine. , 0, , .		18

#	ARTICLE	IF	CITATIONS
19	Fuel sensitivity effects on dual-mode dual-fuel combustion operation for different octane numbers. Energy Conversion and Management, 2019, 201, 112137.	9.2	18
20	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
21	Low Cost Wet Ethanol for Spark-Ignited Engines: Further Investigations. SAE International Journal of Fuels and Lubricants, 0, 8, 367-373.	0.2	16
22	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
23	A chemical kinetics based investigation on laminar burning velocity and knock occurrence in a spark-ignition engine fueled with ethanol-water blends. Fuel, 2020, 280, 118587.	6.4	15
24	Pathways to achieve future CO2 emission reduction targets for bus transit networks. Energy, 2022, 244, 123177.	8.8	15
25	Octane number influence on combustion and performance parameters in a Dual-Mode Dual-Fuel engine. Fuel, 2019, 258, 116140.	6.4	13
26	Energy assessment of an electrically heated catalyst in a hybrid RCCI truck. Energy, 2022, 238, 121681.	8.8	12
27	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
28	Performance Analysis of a Spark Ignited Engine Running on Different Water-in-Ethanol Mixtures. , 2013, , .		7
29	Investigation of Compression Ratio Effect on Wet Ethanol Use in Spark Ignition Engines. , 0, , .		7
30	Modeling of Reactivity Controlled Compression Ignition Combustion Using a Stochastic Reactor Model Coupled with Detailed Chemistry. , 0, , .		6
31	Development of a fast-virtual CFR engine model and its use on autoignition studies. Fuel Processing Technology, 2021, 224, 107031.	7.2	6
32	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
33	Evaluating the Efficiency of a Conventional Diesel Oxidation Catalyst for Dual-Fuel RCCI Diesel-Gasoline Combustion. , 0, , .		5
34	Analysis of Engine Performance and Combustion Characteristics of Diesel and Biodiesel blends in a Compression Ignition Engine. , 2016, , .		3
35	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
36	Cylinder Pressure Based Engine Calibration of a Formula SAE Racing Engine. , 0, , .		2

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37	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
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