

Christian J R Coronado

List of Publications by Year in descending order

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45
papers

1,933
citations

331538

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254106

43
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46
all docs

46
docs citations

46
times ranked

2400
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the potential feedstock for biojet fuel production: Focus in the Brazilian context. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111716.	8.2	20
2	Biodiesel in South American countries: A review on policies, stages of development and imminent competition with hydrotreated vegetable oil. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111755.	8.2	30
3	Experimental determination of upper flammability limits of synthesized iso-paraffins (SIP), Jet fuel and their mixtures with air at atmospheric and sub-atmospheric pressures. <i>Chemical Engineering Research and Design</i> , 2022, 160, 102-115.	2.7	5
4	Temperature profile and gas emissions of jet fuel using a low power flameless combustor. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, .	0.8	2
5	Ethanol as a renewable biofuel: Combustion characteristics and application in engines. <i>Energy</i> , 2022, 257, 124688.	4.5	35
6	Economic assessment of hydrogen and electricity cogeneration through steam reforming-SOFC system in the Brazilian biodiesel industry. <i>Journal of Cleaner Production</i> , 2021, 279, 123814.	4.6	18
7	Exergoenvironmental analysis of hydrogen production through glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1385-1402.	3.8	27
8	Multi-objective optimization for a small biomass cooling and power cogeneration system using binary mixtures. <i>Applied Thermal Engineering</i> , 2021, 182, 116045.	3.0	11
9	Exergoeconomic and Environmental Analysis of a Palm Oil Biorefinery for the Production of Bio-Jet Fuel. <i>Waste and Biomass Valorization</i> , 2021, 12, 5611-5637.	1.8	12
10	Experimental determination of lower flammability limits of Synthesized Iso-Paraffins (SIP), jet fuel and mixtures at atmospheric and reduced pressures with air. <i>Fire Safety Journal</i> , 2021, 121, 103276.	1.4	7
11	A review of dual-fuel combustion mode in spark-ignition engines. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	1
12	Off-design model of an ORC system for waste heat recovery of an internal combustion engine. <i>Applied Thermal Engineering</i> , 2021, 195, 117188.	3.0	22
13	Exergoenvironmental assessment of hydrogen water footprint via steam reforming in Brazil. <i>Journal of Cleaner Production</i> , 2021, 311, 127577.	4.6	13
14	Experimental assessment of power generation using a compression ignition engine fueled by farnesane "A renewable diesel from sugarcane. <i>Energy</i> , 2021, 233, 121187.	4.5	9
15	A detailed experimental and numerical assessment of the QAV "1/anhydrous ethanol blends in their lower flammability limits. <i>Fuel</i> , 2021, 311, 122531.	3.4	4
16	Technical and economical evaluation of the photovoltaic system in Brazilian public buildings: A case study for peak and off-peak hours. <i>Energy</i> , 2020, 190, 116282.	4.5	20
17	Experimental investigation on the potential of biogas/ethanol dual-fuel spark-ignition engine for power generation: Combustion, performance and pollutant emission analysis. <i>Applied Energy</i> , 2020, 261, 114438.	5.1	55
18	Difficulties on the determination of the flammability limits of fuel mixtures by the Law of Le Chatelier. <i>Chemical Engineering Research and Design</i> , 2020, 142, 45-55.	2.7	17

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19	Combustion, performance and emission analysis of a natural gas-hydrous ethanol dual-fuel spark ignition engine with internal exhaust gas recirculation. <i>Energy Conversion and Management</i> , 2019, 195, 1187-1198.	4.4	35
20	Experimental investigation of the performance and emissions of a diesel engine fuelled by blends containing diesel s10, pyrolysis oil from used tires and biodiesel from waste cooking oil. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13199.	1.3	11
21	Design and study of a pure tire pyrolysis oil (TPO) and blended with Brazilian diesel using Y-Jet atomizer. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	8
22	Development of a homogeneous charge pre-chamber torch ignition system for an SI engine fuelled with hydrous ethanol. <i>Applied Thermal Engineering</i> , 2019, 152, 261-274.	3.0	38
23	Method for determination of flammability limits of gaseous compounds diluted with N2 and CO2 in air. <i>Fuel</i> , 2018, 226, 65-80.	3.4	15
24	Research on hydrous ethanol stratified lean burn combustion in a DI spark-ignition engine. <i>Applied Thermal Engineering</i> , 2018, 139, 317-324.	3.0	36
25	Multi-objective optimization and exergetic analysis of a low-grade waste heat recovery ORC application on a Brazilian FPSO. <i>Energy Conversion and Management</i> , 2018, 174, 537-551.	4.4	30
26	Flammability limits temperature dependence of pure compounds in air at atmospheric pressure. <i>Energy</i> , 2017, 118, 414-424.	4.5	22
27	Determination of upper flammability limits of C H O compounds in air at reference temperature and atmospheric pressure. <i>Fuel</i> , 2017, 188, 212-222.	3.4	12
28	Prediction of flammability limits for ethanol-air blends by the Kriging regression model and response surfaces. <i>Fuel</i> , 2017, 210, 410-424.	3.4	7
29	Estimation of upper flammability limits of C&H compounds in air at standard atmospheric pressure and evaluation of temperature dependence. <i>Journal of Hazardous Materials</i> , 2016, 304, 512-521.	6.5	17
30	Technical and economic analyses of waste heat energy recovery from internal combustion engines by the Organic Rankine Cycle. <i>Energy Conversion and Management</i> , 2016, 129, 168-179.	4.4	46
31	Determination of lower flammability limits of C&H&O compounds in air and study of initial temperature dependence. <i>Chemical Engineering Science</i> , 2016, 144, 188-200.	1.9	22
32	Estimation of lower flammability limits of CH compounds in air at atmospheric pressure, evaluation of temperature dependence and diluent effect. <i>Journal of Hazardous Materials</i> , 2015, 285, 409-418.	6.5	21
33	Flammability limits of hydrated and anhydrous ethanol at reduced pressures in aeronautical applications. <i>Journal of Hazardous Materials</i> , 2014, 280, 174-184.	6.5	31
34	Development of a thermoeconomic methodology for optimizing biodiesel production. Part II: Manufacture exergetic cost and biodiesel production cost incorporating carbon credits, a Brazilian case study. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 29, 565-572.	8.2	10
35	Ecological efficiency in glycerol combustion. <i>Applied Thermal Engineering</i> , 2014, 63, 97-104.	3.0	34
36	Thermochemical equilibrium modeling of biomass downdraft gasifier: Stoichiometric models. <i>Energy</i> , 2014, 66, 189-201.	4.5	75

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37	Thermochemical equilibrium modeling of a biomass downdraft gasifier: Constrained and unconstrained non-stoichiometric models. <i>Energy</i> , 2014, 71, 624-637.	4.5	53
38	Glycerol: Production, consumption, prices, characterization and new trends in combustion. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 475-493.	8.2	744
39	Development of a thermoeconomic methodology for the optimization of biodiesel productionâ€”Part I: Biodiesel plant and thermoeconomic functional diagram. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 23, 138-146.	8.2	12
40	Flammability limits: A review with emphasis on ethanol for aeronautical applications and description of the experimental procedure. <i>Journal of Hazardous Materials</i> , 2012, 241-242, 32-54.	6.5	60
41	Ecological impacts from syngas burning in internal combustion engine: Technical and economic aspects. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 5194-5201.	8.2	38
42	Electricity, hot water and cold water production from biomass. Energetic and economical analysis of the compact system of cogeneration run with woodgas from a small downdraft gasifier. <i>Renewable Energy</i> , 2011, 36, 1861-1868.	4.3	55
43	Ecological efficiency in CHP: Biodiesel case. <i>Applied Thermal Engineering</i> , 2010, 30, 458-463.	3.0	37
44	Biodiesel CO2 emissions: A comparison with the main fuels in the Brazilian market. <i>Fuel Processing Technology</i> , 2009, 90, 204-211.	3.7	98
45	Determination of ecological efficiency in internal combustion engines: The use of biodiesel. <i>Applied Thermal Engineering</i> , 2009, 29, 1887-1892.	3.0	58