

# Antonio Garca Martnez

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

160  
papers

3,770  
citations

36  
h-index

54  
g-index

171  
ext. papers

4,525  
ext. citations

7  
avg, IF

6.15  
L-index

#	Paper	IF	Citations
160	HD Diesel engine equipped with a bottoming Rankine cycle as a waste heat recovery system. Part 1: Study and analysis of the waste heat energy. <i>Applied Thermal Engineering</i> , <b>2012</b> , 36, 269-278	5.8	159
159	Sensitivity of combustion noise and NOx and soot emissions to pilot injection in PCCI Diesel engines. <i>Applied Energy</i> , <b>2013</b> , 104, 149-157	10.7	130
158	A complete 0D thermodynamic predictive model for direct injection diesel engines. <i>Applied Energy</i> , <b>2011</b> , 88, 4632-4641	10.7	129
157	Effects of direct injection timing and blending ratio on RCCI combustion with different low reactivity fuels. <i>Energy Conversion and Management</i> , <b>2015</b> , 99, 193-209	10.6	122
156	An investigation on RCCI combustion in a heavy duty diesel engine using in-cylinder blending of diesel and gasoline fuels. <i>Applied Thermal Engineering</i> , <b>2014</b> , 63, 66-76	5.8	118
155	Effects of low reactivity fuel characteristics and blending ratio on low load RCCI (reactivity controlled compression ignition) performance and emissions in a heavy-duty diesel engine. <i>Energy</i> , <b>2015</b> , 90, 1261-1271	7.9	103
154	Achieving clean and efficient engine operation up to full load by combining optimized RCCI and dual-fuel diesel-gasoline combustion strategies. <i>Energy Conversion and Management</i> , <b>2017</b> , 136, 142-151	10.6	99
153	The potential of RCCI concept to meet EURO VI NOx limitation and ultra-low soot emissions in a heavy-duty engine over the whole engine map. <i>Fuel</i> , <b>2015</b> , 159, 952-961	7.1	98
152	The role of the in-cylinder gas temperature and oxygen concentration over low load reactivity controlled compression ignition combustion efficiency. <i>Energy</i> , <b>2014</b> , 78, 854-868	7.9	82
151	Operating range extension of RCCI combustion concept from low to full load in a heavy-duty engine. <i>Applied Energy</i> , <b>2015</b> , 143, 211-227	10.7	79
150	Performance and engine-out emissions evaluation of the double injection strategy applied to the gasoline partially premixed compression ignition spark assisted combustion concept. <i>Applied Energy</i> , <b>2014</b> , 134, 90-101	10.7	78
149	An investigation of partially premixed compression ignition combustion using gasoline and spark assistance. <i>Applied Thermal Engineering</i> , <b>2013</b> , 52, 468-477	5.8	68
148	Effects of piston bowl geometry on Reactivity Controlled Compression Ignition heat transfer and combustion losses at different engine loads. <i>Energy</i> , <b>2016</b> , 98, 64-77	7.9	64
147	An experimental study of gasoline effects on injection rate, momentum flux and spray characteristics using a common rail diesel injection system. <i>Fuel</i> , <b>2012</b> , 97, 390-399	7.1	60
146	A Comprehensive Study of Diesel Combustion and Emissions with Post-injection <b>2007</b> ,		60
145	An experimental investigation on the influence of piston bowl geometry on RCCI performance and emissions in a heavy-duty engine. <i>Energy Conversion and Management</i> , <b>2015</b> , 103, 1019-1030	10.6	58
144	Experimental Study of Biodiesel Blends Effects on Diesel Injection Processes. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 3227-3235	4.1	56

143	An investigation on the particulate number and size distributions over the whole engine map from an optimized combustion strategy combining RCCI and dual-fuel diesel-gasoline. <i>Energy Conversion and Management</i> , <b>2017</b> , 140, 98-108	10.6	55
142	A RCCI operational limits assessment in a medium duty compression ignition engine using an adapted compression ratio. <i>Energy Conversion and Management</i> , <b>2016</b> , 126, 497-508	10.6	55
141	An assessment of the dual-mode reactivity controlled compression ignition/conventional diesel combustion capabilities in a EURO VI medium-duty diesel engine fueled with an intermediate ethanol-gasoline blend and biodiesel. <i>Energy Conversion and Management</i> , <b>2016</b> , 123, 381-391	10.6	54
140	The role of detailed chemical kinetics on CFD diesel spray ignition and combustion modelling. <i>Mathematical and Computer Modelling</i> , <b>2011</b> , 54, 1706-1719		54
139	Insights on postinjection-associated soot emissions in direct injection diesel engines. <i>Combustion and Flame</i> , <b>2008</b> , 154, 448-461	5.3	53
138	Impact of diesel pilot distribution on the ignition process of a dual fuel medium speed marine engine. <i>Energy Conversion and Management</i> , <b>2017</b> , 149, 192-205	10.6	51
137	Conceptual model description of the double injection strategy applied to the gasoline partially premixed compression ignition combustion concept with spark assistance. <i>Applied Energy</i> , <b>2014</b> , 129, 1-9	10.7	48
136	Evaluating the emissions and performance of two dual-mode RCCI combustion strategies under the World Harmonized Vehicle Cycle (WHVC). <i>Energy Conversion and Management</i> , <b>2017</b> , 149, 263-274	10.6	46
135	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> , <b>2018</b> , 157, 19-30	7.9	46
134	Gaseous emissions and particle size distribution of dual-mode dual-fuel diesel-gasoline concept from low to full load. <i>Applied Thermal Engineering</i> , <b>2017</b> , 120, 138-149	5.8	45
133	Optimization of the parallel and mild hybrid vehicle platforms operating under conventional and advanced combustion modes. <i>Energy Conversion and Management</i> , <b>2019</b> , 190, 73-90	10.6	45
132	Exploring the limits of the reactivity controlled compression ignition combustion concept in a light-duty diesel engine and the influence of the direct-injected fuel properties. <i>Energy Conversion and Management</i> , <b>2018</b> , 157, 277-287	10.6	43
131	Influence of fuel properties on fundamental spray characteristics and soot emissions using different tailor-made fuels from biomass. <i>Energy Conversion and Management</i> , <b>2016</b> , 108, 243-254	10.6	42
130	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> , <b>2018</b> , 144, 424-436	5.8	41
129	A spectroscopy study of gasoline partially premixed compression ignition spark assisted combustion. <i>Applied Energy</i> , <b>2013</b> , 104, 568-575	10.7	41
128	HD Diesel engine equipped with a bottoming Rankine cycle as a waste heat recovery system. Part 2: Evaluation of alternative solutions. <i>Applied Thermal Engineering</i> , <b>2012</b> , 36, 279-287	5.8	40
127	Dual-Fuel Combustion for Future Clean and Efficient Compression Ignition Engines. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 36	2.6	38
126	Gasoline effects on spray characteristics, mixing and auto-ignition processes in a CI engine under Partially Premixed Combustion conditions. <i>Applied Thermal Engineering</i> , <b>2014</b> , 70, 996-1006	5.8	38

125	Benefits of E85 versus gasoline as low reactivity fuel for an automotive diesel engine operating in reactivity controlled compression ignition combustion mode. <i>Energy Conversion and Management</i> , <b>2018</b> , 159, 85-95	10.6	37
124	Effectiveness of hybrid powertrains to reduce the fuel consumption and NOx emissions of a Euro 6d-temp diesel engine under real-life driving conditions. <i>Energy Conversion and Management</i> , <b>2019</b> , 199, 111987	10.6	35
123	Emissions reduction from passenger cars with RCCI plug-in hybrid electric vehicle technology. <i>Applied Thermal Engineering</i> , <b>2020</b> , 164, 114430	5.8	35
122	Evaluating the reactivity controlled compression ignition operating range limits in a high-compression ratio medium-duty diesel engine fueled with biodiesel and ethanol. <i>International Journal of Engine Research</i> , <b>2017</b> , 18, 66-80	2.7	34
121	Experimental Evaluation of the Best Approach for Diesel Spray Images Segmentation. <i>Experimental Techniques</i> , <b>2012</b> , 36, 26-34	1.4	30
120	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> , <b>2019</b> , 184, 327-337	10.6	28
119	In-cylinder soot radiation heat transfer in direct-injection diesel engines. <i>Energy Conversion and Management</i> , <b>2015</b> , 106, 414-427	10.6	27
118	Miller cycle for improved efficiency, load range and emissions in a heavy-duty engine running under reactivity controlled compression ignition combustion. <i>Applied Thermal Engineering</i> , <b>2018</b> , 136, 161-168	5.8	27
117	An Investigation on Mixing and Auto-ignition using Diesel and Gasoline in a Direct-Injection Compression-Ignition Engine Operating in PCCI Combustion Conditions. <i>SAE International Journal of Engines</i> , <b>2011</b> , 4, 2590-2602	2.4	27
116	The role of in-cylinder gas density and oxygen concentration on late spray mixing and soot oxidation processes. <i>Energy</i> , <b>2011</b> , 36, 1599-1611	7.9	26
115	Dual fuel combustion and hybrid electric powertrains as potential solution to achieve 2025 emissions targets in medium duty trucks sector. <i>Energy Conversion and Management</i> , <b>2020</b> , 224, 113320	10.6	26
114	Swirl ratio and post injection strategies to improve late cycle diffusion combustion in a light-duty diesel engine. <i>Applied Thermal Engineering</i> , <b>2017</b> , 123, 365-376	5.8	25
113	Effect of laser induced plasma ignition timing and location on Diesel spray combustion. <i>Energy Conversion and Management</i> , <b>2017</b> , 133, 41-55	10.6	24
112	Application of optical diagnostics to the quantification of soot in n-alkane flames under diesel conditions. <i>Combustion and Flame</i> , <b>2016</b> , 164, 212-223	5.3	24
111	Comprehensive study of biodiesel fuel for HSDI engines in conventional and low temperature combustion conditions. <i>Renewable Energy</i> , <b>2010</b> , 35, 368-378	8.1	24
110	In-flame soot quantification of diesel sprays under sooting/non-sooting critical conditions in an optical engine. <i>Applied Thermal Engineering</i> , <b>2019</b> , 149, 1-10	5.8	24
109	Potential of hybrid powertrains in a variable compression ratio downsized turbocharged VVA Spark Ignition engine. <i>Energy</i> , <b>2020</b> , 195, 117039	7.9	23
108	Impact of swirl on in-cylinder heat transfer in a light-duty diesel engine. <i>Energy</i> , <b>2017</b> , 119, 1010-1023	7.9	23

107	Potential of e-Fischer Tropsch diesel and oxymethyl-ether (OMEx) as fuels for the dual-mode dual-fuel concept. <i>Applied Energy</i> , <b>2019</b> , 253, 113622	10.7	22
106	Flow regime effects over non-cavitating diesel injection nozzles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2012</b> , 226, 133-144	1.4	22
105	Potential of bio-ethanol in different advanced combustion modes for hybrid passenger vehicles. <i>Renewable Energy</i> , <b>2020</b> , 150, 58-77	8.1	22
104	Evaluation of a stratified prechamber ignition concept for vehicular applications in real world and standardized driving cycles. <i>Applied Energy</i> , <b>2019</b> , 254, 113691	10.7	21
103	Implementation of two color method to investigate late cycle soot oxidation process in a CI engine under low load conditions. <i>Applied Thermal Engineering</i> , <b>2017</b> , 113, 878-890	5.8	20
102	Experimental investigation on the efficiency of a diesel oxidation catalyst in a medium-duty multi-cylinder RCCI engine. <i>Energy Conversion and Management</i> , <b>2018</b> , 176, 1-10	10.6	20
101	Sizing a conventional diesel oxidation catalyst to be used for RCCI combustion under real driving conditions. <i>Applied Thermal Engineering</i> , <b>2018</b> , 140, 62-72	5.8	20
100	Performance of a diesel oxidation catalyst under diesel-gasoline reactivity controlled compression ignition combustion conditions. <i>Energy Conversion and Management</i> , <b>2019</b> , 196, 18-31	10.6	19
99	ADVANCED METHODOLOGY FOR IMPROVING TESTING EFFICIENCY IN A SINGLE-CYLINDER RESEARCH DIESEL ENGINE. <i>Experimental Techniques</i> , <b>2008</b> , 32, 41-47	1.4	19
98	Potential of RCCI Series Hybrid Vehicle Architecture to Meet the Future CO2 Targets with Low Engine-Out Emissions. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1472	2.6	19
97	Clean and efficient dual-fuel combustion using OMEx as high reactivity fuel: Comparison to diesel-gasoline calibration. <i>Energy Conversion and Management</i> , <b>2020</b> , 216, 112953	10.6	18
96	Optical study on characteristics of non-reacting and reacting diesel spray with different strategies of split injection. <i>International Journal of Engine Research</i> , <b>2019</b> , 20, 606-623	2.7	18
95	An Experimental Investigation of Diesel-Gasoline Blends Effects in a Direct-Injection Compression-Ignition Engine Operating in PCCI Conditions <b>2013</b> ,		18
94	Reactivity controlled compression ignition engine: Pathways towards commercial viability. <i>Applied Energy</i> , <b>2021</b> , 282, 116174	10.7	18
93	Potential of 1-octanol and di-n-butyl ether (DNBE) to improve the performance and reduce the emissions of a direct injected compression ignition diesel engine. <i>Energy Conversion and Management</i> , <b>2018</b> , 177, 563-571	10.6	18
92	Investigation of late-cycle soot oxidation using laser extinction and in-cylinder gas sampling at varying inlet oxygen concentrations in diesel engines. <i>Fuel</i> , <b>2017</b> , 193, 308-314	7.1	17
91	Performance and emissions of a series hybrid vehicle powered by a gasoline partially premixed combustion engine. <i>Applied Thermal Engineering</i> , <b>2019</b> , 150, 564-575	5.8	17
90	Investigation of the ignition and combustion processes of a dual-fuel spray under diesel-like conditions using computational fluid dynamics (CFD) modeling. <i>Mathematical and Computer Modelling</i> , <b>2013</b> , 57, 1897-1906		16

89	Potential of using OME <sub>x</sub> as substitute of diesel in the dual-fuel combustion mode to reduce the global CO <sub>2</sub> emissions. <i>Transportation Engineering</i> , <b>2020</b> , 1, 100001	3	15
88	A Combination of Swirl Ratio and Injection Strategy to Increase Engine Efficiency. <i>SAE International Journal of Engines</i> , <b>2017</b> , 10, 1204-1216	2.4	15
87	A Numerical Investigation on Combustion Characteristics with the use of Post Injection in DI Diesel Engines <b>2010</b> ,		15
86	An optical investigation of Fischer-Tropsch diesel and Oxymethylene dimethyl ether impact on combustion process for CI engines. <i>Applied Energy</i> , <b>2020</b> , 260, 114238	10.7	15
85	Energy management strategies comparison for a parallel full hybrid electric vehicle using Reactivity Controlled Compression Ignition combustion. <i>Applied Energy</i> , <b>2020</b> , 272, 115191	10.7	14
84	Impact of Spark Assistance and Multiple Injections on Gasoline PPC Light Load. <i>SAE International Journal of Engines</i> , <b>2014</b> , 7, 1875-1887	2.4	14
83	Combination of Visualization Techniques for the Analysis of Evaporating Diesel Sprays. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 5481-5490	4.1	14
82	Methanol and OME <sub>x</sub> as fuel candidates to fulfill the potential EURO VII emissions regulation under dual-mode dual-fuel combustion. <i>Fuel</i> , <b>2021</b> , 287, 119548	7.1	14
81	OME <sub>x</sub> -diesel blends as high reactivity fuel for ultra-low NO <sub>x</sub> and soot emissions in the dual-mode dual-fuel combustion strategy. <i>Fuel</i> , <b>2020</b> , 275, 117898	7.1	13
80	Thermal analysis of a light-duty CI engine operating with diesel-gasoline dual-fuel combustion mode. <i>Energy</i> , <b>2016</b> , 115, 1305-1319	7.9	13
79	Fuel sensitivity effects on dual-mode dual-fuel combustion operation for different octane numbers. <i>Energy Conversion and Management</i> , <b>2019</b> , 201, 112137	10.6	12
78	Evaluation of Emissions and Performances from Partially Premixed Compression Ignition Combustion using Gasoline and Spark Assistance <b>2013</b> ,		12
77	Experimental study of influence of Liquefied Petroleum Gas addition in Hydrotreated Vegetable Oil fuel on ignition delay, flame lift off length and soot emission under diesel-like conditions. <i>Fuel</i> , <b>2020</b> , 260, 116377	7.1	12
76	Computational optimization of the dual-mode dual-fuel concept through genetic algorithm at different engine loads. <i>Energy Conversion and Management</i> , <b>2020</b> , 208, 112577	10.6	11
75	A Comprehensive Study of Particle Size Distributions with the Use of PostInjection Strategies in DI Diesel Engines. <i>Aerosol Science and Technology</i> , <b>2011</b> , 45, 1161-1175	3.4	11
74	Exploration of suitable injector configuration for dual-mode dual-fuel engine with diesel and OME <sub>x</sub> as high reactivity fuels. <i>Fuel</i> , <b>2020</b> , 280, 118670	7.1	11
73	High efficiency two stroke opposed piston engine for plug-in hybrid electric vehicle applications: Evaluation under homologation and real driving conditions. <i>Applied Energy</i> , <b>2021</b> , 282, 116078	10.7	11
72	Effects of fuel injection parameters on premixed charge compression ignition combustion and emission characteristics in a medium-duty compression ignition diesel engine. <i>International Journal of Engine Research</i> , <b>2021</b> , 22, 443-455	2.7	11

71	Assessment of a complete truck operating under dual-mode dual-fuel combustion in real life applications: Performance and emissions analysis. <i>Applied Energy</i> , <b>2020</b> , 279, 115729	10.7	10
70	Laser induced plasma methodology for ignition control in direct injection sprays. <i>Energy Conversion and Management</i> , <b>2016</b> , 120, 144-156	10.6	10
69	Assessment on the consequences of injection strategies on combustion process and particle size distributions in Euro VI medium-duty diesel engine. <i>International Journal of Engine Research</i> , <b>2020</b> , 21, 683-697	2.7	10
68	Hydraulic Behavior and Spray Characteristics of a Common Rail Diesel Injection System Using Gasoline Fuel <b>2012</b> ,		9
67	Partially Premixed Combustion in a Diesel Engine Induced by a Pilot Injection at the Low-pressure Top Dead Center. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 2891-2902	4.1	9
66	A chemical kinetics based investigation on laminar burning velocity and knock occurrence in a spark-ignition engine fueled with ethanol/water blends. <i>Fuel</i> , <b>2020</b> , 280, 118587	7.1	9
65	Analysis of a series hybrid vehicle concept that combines low temperature combustion and biofuels as power source. <i>Results in Engineering</i> , <b>2019</b> , 1, 100001	3.3	8
64	Influence of spatial and temporal distribution of Turbulent Kinetic Energy on heat transfer coefficient in a light duty CI engine operating with Partially Premixed Combustion. <i>Applied Thermal Engineering</i> , <b>2018</b> , 129, 31-40	5.8	8
63	Analysis of the potential of a new automotive two-stroke gasoline engine able to operate in spark ignition and controlled autoignition combustion modes. <i>Applied Thermal Engineering</i> , <b>2017</b> , 126, 834-847	5.8	8
62	An Experimental Study on Diesel Spray Injection into a Non-Quiescent Chamber. <i>SAE International Journal of Fuels and Lubricants</i> , <b>2017</b> , 10, 394-406	1.8	8
61	An Investigation of Radiation Heat Transfer in a Light-Duty Diesel Engine. <i>SAE International Journal of Engines</i> , <b>2015</b> , 8, 2199-2212	2.4	8
60	An Investigation of Particle Size Distributions with Post Injection in DI Diesel Engines <b>2011</b> ,		8
59	Potential of a two-stage variable compression ratio downsized spark ignition engine for passenger cars under different driving conditions. <i>Energy Conversion and Management</i> , <b>2020</b> , 203, 112251	10.6	8
58	Characterization of In-Cylinder Soot Oxidation Using Two-Color Pyrometry in a Production Light-Duty Diesel Engine <b>2016</b> ,		8
57	Influence of the number of injections on piston heat rejection under low temperature combustion conditions in an optical compression-ignition engine. <i>Energy Conversion and Management</i> , <b>2017</b> , 153, 335-345	10.6	7
56	Optimal heat release shaping in a reactivity controlled compression ignition (RCCI) engine. <i>Control Theory and Technology</i> , <b>2017</b> , 15, 117-128	1	7
55	Particulates Size Distribution of Reactivity Controlled Compression Ignition (RCCI) on a Medium-Duty Engine Fueled with Diesel and Gasoline at Different Engine Speeds. <i>SAE International Journal of Engines</i> , <b>2017</b> , 10, 2382-2391	2.4	7
54	Experimental and Theoretical Analysis of the Energy Balance in a DI Diesel Engine <b>2015</b> ,		7

53	An Experimental Investigation on Spray Mixing and Combustion Characteristics for Spray C/D Nozzles in a Constant Pressure Vessel		7
52	Effect of a novel piston geometry on the combustion process of a light-duty compression ignition engine: An optical analysis. <i>Energy</i> , <b>2021</b> , 221, 119764	7.9	7
51	Characterization of Spray Evaporation and Mixing Using Blends of Commercial Gasoline and Diesel Fuels in Engine-Like Conditions <b>2017</b> ,		6
50	Evaluating OMEx combustion towards stoichiometric conditions in a compression ignition engine. <i>Fuel</i> , <b>2021</b> , 303, 121273	7.1	6
49	Study on LTC for light duty engines [Part 2] Spray enhancements. <i>Fuel</i> , <b>2017</b> , 193, 206-219	7.1	5
48	Octane number influence on combustion and performance parameters in a Dual-Mode Dual-Fuel engine. <i>Fuel</i> , <b>2019</b> , 258, 116140	7.1	5
47	Study of Air Flow Interaction with Pilot Injections in a Diesel Engine by Means of PIV Measurements. <i>SAE International Journal of Engines</i> , <b>2017</b> , 10, 740-751	2.4	5
46	Thermal runaway evaluation and thermal performance enhancement of a lithium-ion battery coupling cooling system and battery sub-models. <i>Applied Thermal Engineering</i> , <b>2022</b> , 202, 117884	5.8	5
45	Experimental and Numerical Assessment of Active Pre-chamber Ignition in Heavy Duty Natural Gas Stationary Engine		5
44	Computational optimization of the piston bowl geometry for the different combustion regimes of the dual-mode dual-fuel (DMDf) concept through an improved genetic algorithm. <i>Energy Conversion and Management</i> , <b>2021</b> , 246, 114658	10.6	5
43	Combustion improvement and pollutants reduction with diesel-gasoline blends by means of a highly tunable laser plasma induced ignition system. <i>Journal of Cleaner Production</i> , <b>2020</b> , 271, 122499	10.3	4
42	Effects of Cavitation in Common-Rail Diesel Nozzles on the Soot Formation Process <b>2013</b> ,		4
41	Evaluating the Efficiency of a Conventional Diesel Oxidation Catalyst for Dual-Fuel RCCI Diesel-Gasoline Combustion		4
40	Evaluation of EGR Effect on the Global Energy Balance of a High Speed DI Diesel Engine <b>2016</b> ,		4
39	Soot reduction for cleaner Compression Ignition Engines through innovative bowl templates. <i>International Journal of Engine Research</i> , <b>2021</b> , 22, 2477-2491	2.7	4
38	Numerical analysis of kinetic mechanisms for battery thermal runaway prediction in lithium-ion batteries. <i>International Journal of Engine Research</i> , 146808742110299	2.7	4
37	An optical investigation of thermal runaway phenomenon under thermal abuse conditions. <i>Energy Conversion and Management</i> , <b>2021</b> , 246, 114663	10.6	4
36	Energy management optimization for a power-split hybrid in a dual-mode RCCI-CDC engine. <i>Applied Energy</i> , <b>2021</b> , 302, 117525	10.7	4



35	Impact of the hybrid electric architecture on the performance and emissions of a delivery truck with a dual-fuel RCCI engine. <i>Applied Energy</i> , <b>2021</b> , 301, 117494	10.7	4
34	Soot Characterization of Diesel/Gasoline Blends Injected through a Single Injection System in CI engines <b>2017</b> ,		3
33	Influence of Direct-Injected Fuel Properties on Performance and Emissions from a Light-Duty Diesel Engine Running Under RCCI Combustion Mode <b>2018</b> ,		3
32	Application of a zero-dimensional model to assess the effect of swirl on indicated efficiency. <i>International Journal of Engine Research</i> , <b>2019</b> , 20, 837-848	2.7	3
31	Analysis of the Potential of Biodiesel as an Alternative Fuel for Current and Future HSDI Engines <b>2009</b> ,		3
30	Impact of Multiple Injection Strategies on Performance and Emissions of Methanol PPC under Low Load Operation		3
29	Infrared/Visible Optical Diagnostics of RCCI Combustion with Dieseline in a Compression Ignition Engine		3
28	Redesign and Characterization of a Single-Cylinder Optical Research Engine to Allow Full Optical Access and Fast Cleaning during Combustion Studies. <i>Experimental Techniques</i> , <b>2018</b> , 42, 55-68	1.4	3
27	Energy assessment of an electrically heated catalyst in a hybrid RCCI truck. <i>Energy</i> , <b>2022</b> , 238, 121681	7.9	3
26	Development of a soot radiation model for diesel flames. <i>Applied Thermal Engineering</i> , <b>2019</b> , 157, 113719	1.8	2
25	A New Methodology to Evaluate Engine Ignition Systems in High Density Conditions. <i>Experimental Techniques</i> , <b>2014</b> , 38, 17-28	1.4	2
24	Life cycle CO <sub>2</sub> footprint reduction comparison of hybrid and electric buses for bus transit networks. <i>Applied Energy</i> , <b>2022</b> , 308, 118354	10.7	2
23	Dual-Fuel Ethanol-Diesel Technology Applied in Mild and Full Hybrid Powertrains		2
22	Optimization of low carbon fuels operation on a CI engine under a simplified driving cycle for transportation de-fossilization. <i>Fuel</i> , <b>2022</b> , 310, 122338	7.1	2
21	Simultaneous high-speed spectroscopy and 2-color pyrometry analysis in an optical compression ignition engine fueled with OMEX-diesel blends. <i>Combustion and Flame</i> , <b>2021</b> , 230, 111437	5.3	2
20	OMEx Fuel and RCCI Combustion to Reach Engine-Out Emissions Beyond the Current EURO VI Legislation		2
19	Development of a fast-virtual CFR engine model and its use on autoignition studies. <i>Fuel Processing Technology</i> , <b>2021</b> , 224, 107031	7.2	2
18	Energy sustainability in the transport sector using synthetic fuels in series hybrid trucks with RCCI dual-fuel engine. <i>Fuel</i> , <b>2022</b> , 308, 122024	7.1	2

17	Teaching combustion thermochemistry with an interactive Matlab application. <i>Computer Applications in Engineering Education</i> , <b>2019</b> , 27, 642-652	1.6	1
16	Performance Evaluation and Components Behavior of Light Duty Diesel Engine after 300 Hours Test Fuelled with Pure Biodiesel: Effects on Reliability and Durability <b>2012</b> ,		1
15	Development of an empirical test method to quantify the $\gamma$ -sensitivity of liquid fuels. <i>Energy Conversion and Management</i> , <b>2022</b> , 254, 115257	10.6	1
14	Pathways to achieve future CO <sub>2</sub> emission reduction targets for bus transit networks. <i>Energy</i> , <b>2022</b> , 244, 123177	7.9	1
13	Influence of Injection Timing on Equivalence Ratio Stratification of Methanol and Isooctane in a Heavy-Duty Compression Ignition Engine		1
12	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> , <b>2022</b> , 184, 122381	4.9	1
11	Combined CFD - PIV Methodology for the Characterization of Air Flow in a Diesel Engine		1
10	Experimental Study of the Influence of Gasoline/Diesel Blends on the Combustion Process and Soot Formation under Diesel Engine-Like Conditions. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 5589-5598	4.1	1
9	Use of EGR e-pump for Dual-Mode Dual-Fuel engines in mild hybrid architectures. <i>Energy Conversion and Management</i> , <b>2021</b> , 247, 114701	10.6	1
8	Impact of low carbon fuels (LCF) on the fuel efficiency and NO <sub>x</sub> emissions of a light-duty series hybrid commercial delivery vehicle. <i>Fuel</i> , <b>2022</b> , 321, 124035	7.1	1
7	Application of a one-dimensional spray model to teach diffusion flame fundamentals for engineering students. <i>Computer Applications in Engineering Education</i> , <b>2019</b> , 27, 1202-1216	1.6	0
6	Parametric assessment of the effect of oxygenated low carbon fuels in a light-duty compression ignition engine. <i>Fuel Processing Technology</i> , <b>2022</b> , 229, 107199	7.2	0
5	Initiation and propagation of curved reaction front in solids: Insights into solid combustion and battery thermal runaway. <i>Combustion and Flame</i> , <b>2022</b> , 238, 111951	5.3	0
4	CO <sub>2</sub> Well-to-Wheel Abatement with Plug-In Hybrid Electric Vehicles Running under Low Temperature Combustion Mode with Green Fuels. <i>SAE International Journal of Advances and Current Practices in Mobility</i> , <b>3</b> , 731-743	1	0
3	Combining in-cylinder pressure and 1D simulation tools to understand the combustion characteristics of natural gas in pre-chamber ignition systems for energy generation. <i>Energy Conversion and Management</i> , <b>2021</b> , 240, 114262	10.6	0
2	Emissions reduction by using e-components in 48 V mild hybrid trucks under dual-mode dual-fuel combustion. <i>Applied Energy</i> , <b>2021</b> , 299, 117305	10.7	0
1	Intelligent charge compression ignition combustion for range extender medium duty applications. <i>Renewable Energy</i> , <b>2022</b> , 187, 671-687	8.1	