Pablo Olmeda

List of Publications by Year
in descending order

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68	1,766	331670 21	345221 36
papers	citations	h-index	g-index

68	68	68	913
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improvement in engine thermal management by changing coolant and oil mass. Applied Thermal Engineering, 2022, 212, 118513.	6.0	9
2	Assessment of the improvement of internal combustion engines cooling system using nanofluids and nanoencapsulated phase change materials. International Journal of Engine Research, 2021, 22, 1939-1957.	2.3	9
3	A one-dimensional modeling study on the effect of advanced insulation coatings on internal combustion engine efficiency. International Journal of Engine Research, 2021, 22, 2390-2404.	2.3	10
4	Conjugate heat transfer study of the impact of â€˜thermo-swingâ€™ coatings on internal combustion engines heat losses. International Journal of Engine Research, 2021, 22, 2958-2967.	2.3	9
5	Reply to short communication â€ Comment on â€œNumerical approach to define a thermodynamically equivalent material for the conjugate heat transfer simulation of very thin coating layersâ€•by P. Olmeda, X. Margot, P. Quintero, J. Escalona, International Journal of Heat and Mass Transfer, Vol. 162(2020) 120377 â€•by Jaal Ghandhi and Georgios Koutsakis. International Journal of Heat and Mass Transfer, 2021, 171, 121023.	4.8	0
6	Assessing the optimum combustion under constrained conditions. International Journal of Engine Research, 2020, 21, 811-823.	2.3	10
7	A holistic methodology to correct heat transfer and bearing friction losses from hot turbocharger maps in order to obtain adiabatic efficiency of the turbomachinery. International Journal of Engine Research, 2020, 21, 1314-1335.	2.3	17
8	Internal Combustion Engine Heat Transfer and Wall Temperature Modeling: An Overview. Archives of Computational Methods in Engineering, 2020, 27, 1661-1679.	10.2	21
9	Analysis of the energy balance during World harmonized Light vehicles Test Cycle in warmed and cold conditions using a Virtual Engine. International Journal of Engine Research, 2020, 21, 1037-1054.	2.3	18
10	Numerical approach to define a thermodynamically equivalent material for the conjugate heat transfer simulation of very thin coating layers. International Journal of Heat and Mass Transfer, 2020, 162, 120377.	4.8	7
11	New approach to study the heat transfer in internal combustion engines by 3D modelling. International Journal of Thermal Sciences, 2019, 138, 405-415.	4.9	27
12	Numerical simulations for evaluating the impact of advanced insulation coatings on H2 additivated gasoline lean combustion in a turbocharged spark-ignited engine. Applied Thermal Engineering, 2019, 148, 674-683.	6.0	19
13	An experimental methodology and model for characterizing radial centrifugal compressors of turbocharged engines from diathermal perspective. Mechanisms and Machine Science, 2019, , 883-892.	0.5	0
14	Methodology for Optical Engine Characterization by Means of the Combination of Experimental and Modeling Techniques. Applied Sciences (Switzerland), 2018, 8, 2571.	2.5	11
15	Development and Validation of a Submodel for Thermal Exchanges in the Hydraulic Circuits of a Global Engine Model. , 2018, , .		6
16	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
17	Evaluation of swirl effect on the Global Energy Balance of a HSDI Diesel engine. Energy, 2017, 122, 168-181.	8.8	22
18	Effect of in-cylinder swirl on engine efficiency and heat rejection in a light-duty diesel engine. International Journal of Engine Research, 2017, 18, 81-92.	2.3	3

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19	In-cylinder pressure based model for exhaust temperature estimation in internal combustion engines. Applied Thermal Engineering, 2017, 115, 212-220.	6.0	26
20	Experimental study of the influence of exhaust gas recirculation on heat transfer in the firedeck of a direct injection diesel engine. Energy Conversion and Management, 2017, 153, 304-312.	9.2	14
21	Influence of the number of injections on piston heat rejection under low temperature combustion conditions in an optical compression-ignition engine. Energy Conversion and Management, 2017, 153, 335-345.	9.2	7
22	Impact of swirl on in-cylinder heat transfer in a light-duty diesel engine. Energy, 2017, 119, 1010-1023.	8.8	28
23	Dynamic Identification of Thermodynamic Parameters for Turbocharger Compressor Models. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	2
24	Findings from a fleet test on the performance of two engine oil formulations in automotive CNG engines. Lubrication Science, 2015, 27, 15-28.	2.1	3
25	Experimental analysis of the global energy balance in a DI diesel engine. Applied Thermal Engineering, 2015, 89, 545-557.	6.0	48
26	Analysis and Methodology to Characterize Heat Transfer Phenomena in Automotive Turbochargers. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	26
27	Turbocharger heat transfer and mechanical losses influence in predicting engines performance by using one-dimensional simulation codes. Energy, 2015, 86, 204-218.	8.8	55
28	A study on the internal convection in small turbochargers. Proposal ofÂheat transfer convective coefficients. Applied Thermal Engineering, 2015, 89, 587-599.	6.0	41
29	Computational fluid dynamics assessment of subcooled flow boiling in internal-combustion engine-like conditions at low flow velocities with a volume-of-fluid model and a two-fluid model. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 1830-1839.	1.9	3
30	An adapted heat transfer model for engines with tumble motion. Applied Energy, 2015, 158, 190-202.	10.1	13
31	Uncertainties in power computations in a turbocharger test bench. Measurement: Journal of the International Measurement Confederation, 2015, 59, 363-371.	5.0	15
32	Dynamic Identification of Thermodynamic Parameters for Turbocharger Compressor Models. , 2014, , .		0
33	Methodology to Characterize Heat Transfer Phenomena in Small Automotive Turbochargers: Experiments and Modelling Based Analysis. , 2014, , .		9
34	Modelling of turbocharger heat transfer under stationary and transient engine operating conditions. , 2014, , 103-112.		11
35	Experiments on subcooled flow boiling in I.C. engine-like conditions at low flow velocities. Experimental Thermal and Fluid Science, 2014, 52, 347-354.	2.7	23
36	Heat transfer modeling in exhaust systems of high-performance two-stroke engines. Applied Thermal Engineering, 2014, 69, 96-104.	6.0	8

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37	A new methodology for uncertainties characterization in combustion diagnosis and thermodynamic modelling. Applied Thermal Engineering, 2014, 71, 389-399.	6.0	67
38	Impact of biodiesel fuel on cold starting of automotive direct injection diesel engines. Energy, 2014, 73, 653-660.	8.8	50
39	External heat losses in small turbochargers: Model and experiments. Energy, 2014, 71, 534-546.	8.8	50
40	Theoretical and experimental study of mechanical losses inÂautomotive turbochargers. Energy, 2013, 55, 888-898.	8.8	72
41	Determination of heat flows inside turbochargers by means of a one dimensional lumped model. Mathematical and Computer Modelling, 2013, 57, 1847-1852.	2.0	50
42	Monitoring and analysing oil condition to generate maintenance savings: a case study in a CNG engine powered urban transport fleet. Insight: Non-Destructive Testing and Condition Monitoring, 2013, 55, 84-87.	0.6	4
43	Experimental assessment for instantaneous temperature and heat flux measurements under Diesel motored engine conditions. Energy Conversion and Management, 2012, 54, 57-66.	9.2	17
44	A Tool for Predicting the Thermal Performance of a Diesel Engine. Heat Transfer Engineering, 2011, 32, 891-904.	1.9	40
45	A complete 0D thermodynamic predictive model for direct injection diesel engines. Applied Energy, 2011, 88, 4632-4641.	10.1	150
46	Adaptive determination of cut-off frequencies for filtering the in-cylinder pressure in diesel engines combustion analysis. Applied Thermal Engineering, 2011, 31, 2869-2876.	6.0	34
47	Experiments on the influence of intake conditions on local instantaneous heat flux in reciprocating internal combustion engines. Energy, 2011, 36, 60-69.	8.8	11
48	A contribution to film coefficient estimation in piston cooling galleries. Experimental Thermal and Fluid Science, 2010, 34, 142-151.	2.7	44
49	A Methodology for the Design of Engine Cooling Systems in Standalone Applications. , 2010, , .		8
50	An experimental procedure to determine heat transfer properties of turbochargers. Measurement Science and Technology, 2010, 21, 035109.	2.6	44
51	Experimental Methodology to Characterize Mechanical Losses in Small Turbochargers. , 2010, , .		6
52	Methodology of fault detection in internal combustion engines through the analysis of rolling block oscillation. International Journal of Heavy Vehicle Systems, 2009, 16, 294.	0.2	1
53	Measurement of hydrocarbon and carbon monoxide emissions during the starting of automotive DI Diesel engines. International Journal of Automotive Technology, 2008, 9, 129-140.	1.4	24
54	Assessment of the influence of different cooling system configurations on engine warm-up, emissions and fuel consumption. International Journal of Automotive Technology, 2008, 9, 447-458.	1.4	61

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55	A contribution to the diagnosis of internal combustion engines through rolling block oscillations. Insight: Non-Destructive Testing and Condition Monitoring, 2008, 50, 637-641.	0.6	1
56	Experiments on the influence of inlet charge and coolant temperature on performance and emissions of a DI Diesel engine. Experimental Thermal and Fluid Science, 2006, 30, 633-641.	2.7	74
57	A concise wall temperature model for DI Diesel engines. Applied Thermal Engineering, 2006, 26, 1320-1327.	6.0	76
58	Analytical approach to wear rate determination for internal combustion engine condition monitoring based on oil analysis. Tribology International, 2003, 36, 771-776.	5.9	82
59	Results and benefits of an oil analysis programme for railway locomotive diesel engines. Insight: Non-Destructive Testing and Condition Monitoring, 2003, 45, 402-406.	0.6	3
60	Wear Rate Determination for IC Engine Condition Monitoring Results Obtained in an Urban Transport Fleet. , 0, , .		2
61	Importance of Heat Transfer Phenomena in Small Turbochargers for Passenger Car Applications. SAE International Journal of Engines, 0, 6, 716-728.	0.4	57
62	Importance of Mechanical Losses Modeling in the Performance Prediction of Radial Turbochargers under Pulsating Flow Conditions. SAE International Journal of Engines, 0, 6, 729-738.	0.4	26
63	Energy Balance During the Warm-Up of a Diesel Engine. , 0, , .		17
64	General Procedure for the Determination of Heat Transfer Properties in Small Automotive Turbochargers. SAE International Journal of Engines, 0, 8, 30-41.	0.4	17
65	A New Tool to Perform Global Energy Balances in DI Diesel Engines. SAE International Journal of Engines, 0, 7, 43-59.	0.4	64
66	Evaluation of EGR Effect on the Global Energy Balance of a High Speed DI Diesel Engine. , 0, , .		7
67	A Combination of Swirl Ratio and Injection Strategy to Increase Engine Efficiency. SAE International Journal of Engines, 0, 10, 1204-1216.	0.4	17
68	Numerical Estimation of Wiebe Function Parameters Using Artificial Neural Networks in SI Engine. , 0, , .		4