Pau Bares

List of Publications by Year
in descending order

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42	589	687220 13	752573 20
papers	citations	h-index	g-index

42	42	42	340
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new knock event definition for knock detection and control optimization. Applied Thermal Engineering, 2018, 131, 80-88.	3.0	52
2	Cycle by cycle NOx model for diesel engine control. Applied Thermal Engineering, 2017, 110, 1011-1020.	3.0	42
3	An analysis of the in-cylinder pressure resonance excitation in internal combustion engines. Applied Energy, 2018, 228, 1272-1279.	5.1	33
4	Exploiting driving history for optimising the Energy Management in plug-in Hybrid Electric Vehicles. Energy Conversion and Management, 2021, 234, 113919.	4.4	33
5	In-cylinder pressure based model for exhaust temperature estimation in internal combustion engines. Applied Thermal Engineering, 2017, 115, 212-220.	3.0	26
6	Simultaneous Estimation of Intake and Residual Mass Using In-Cylinder Pressure in an Engine with Negative Valve Overlap. IFAC-PapersOnLine, 2016, 49, 461-468.	0.5	25
7	Estimation of trapped mass by in-cylinder pressure resonance in HCCI engines. Mechanical Systems and Signal Processing, 2016, 66-67, 862-874.	4.4	25
8	A direct transform for determining the trapped mass on an internal combustion engine based on the in-cylinder pressure resonance phenomenon. Mechanical Systems and Signal Processing, 2015, 62-63, 480-489.	4.4	23
9	Cycle by Cycle Trapped Mass Estimation for Diagnosis and Control. SAE International Journal of Engines, 0, 7, 1523-1531.	0.4	22
10	Cylinder charge composition observation based on in-cylinder pressure measurement. Measurement: Journal of the International Measurement Confederation, 2019, 131, 559-568.	2.5	18
11	Closed-loop control of a dual-fuel engine working with different combustion modes using in-cylinder pressure feedback. International Journal of Engine Research, 2020, 21, 484-496.	1.4	18
12	Knock probability estimation through an in-cylinder temperature model with exogenous noise. Mechanical Systems and Signal Processing, 2018, 98, 756-769.	4.4	17
13	Cycle-to-cycle combustion variability modelling in spark ignited engines for control purposes. International Journal of Engine Research, 2020, 21, 1398-1411.	1.4	17
14	Modeling combustion timing in an RCCI engine by means of a control oriented model. Control Engineering Practice, 2020, 97, 104321.	3.2	17
15	Adaptive calibration for reduced fuel consumption and emissions. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 2002-2014.	1.1	16
16	A fuzzy logic map-based knock control for spark ignition engines. Applied Energy, 2020, 280, 116036.	5.1	15
17	Knock Analysis in the Crank Angle Domain for Low-Knocking Cycles Detection. , 0, , .		15
18	Analysis of a novel concept of 2-stroke rod-less opposed pistons engine (2S-ROPE): Testing, modelling, and forward potential. Applied Energy, 2021, 282, 116135.	5.1	14

#	Article	IF	Citations
19	A combustion phasing control-oriented model applied to an RCCI engine. IFAC-PapersOnLine, 2018, 51, 119-124.	0.5	13
20	Model-Based Ammonia Slip Observation for SCR Control and Diagnosis. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1346-1353.	3.7	13
21	Simultaneous NOx and NH3 slip prediction in a SCR catalyst under real driving conditions including potential urea injection failures. International Journal of Engine Research, 2022, 23, 1213-1225.	1.4	13
22	An on-board method to estimate the light-off temperature of diesel oxidation catalysts. International Journal of Engine Research, 2020, 21, 1480-1492.	1.4	12
23	Ammonia injection optimization for selective catalytic reduction aftertreatment systems. International Journal of Engine Research, 2021, 22, 2169-2179.	1.4	11
24	NOx sensor cross sensitivity model and simultaneous prediction of NOx and NH3 slip from automotive catalytic converters under real driving conditions. International Journal of Engine Research, 2021, 22, 3209-3218.	1.4	11
25	Energy Management of Hybrid Electric Urban Bus by Off-Line Dynamic Programming Optimization and One-Step Look-Ahead Rollout. Applied Sciences (Switzerland), 2022, 12, 4474.	1.3	11
26	Acoustic characterization of combustion chambers in reciprocating engines: An application for low knocking cycles recognition. International Journal of Engine Research, 2022, 23, 120-131.	1.4	10
27	Propeller Position Effects over the Pressure and Friction Coefficients over the Wing of an UAV with Distributed Electric Propulsion: A Proper Orthogonal Decomposition Analysis. Drones, 2022, 6, 38.	2.7	8
28	Determination of the resonance response in an engine cylinder with a bowl-in-piston geometry by the finite element method for inferring the trapped mass. International Journal of Engine Research, 2016, 17, 534-542.	1.4	7
29	Integration of intermittent measurement from in-cylinder pressure resonance in a multi-sensor mass flow estimator. Mechanical Systems and Signal Processing, 2019, 131, 152-165.	4.4	7
30	Adaptive calibration of Diesel engine injection for minimising fuel consumption with constrained NOx emissions in actual driving missions. International Journal of Engine Research, 2021, 22, 1896-1905.	1.4	7
31	Adaptive in-cylinder pressure model for spark ignition engine control. Fuel, 2021, 299, 120870.	3.4	7
32	Increasing knock detection sensitivity by combining knock sensor signal with a control oriented combustion model. Mechanical Systems and Signal Processing, 2022, 168, 108665.	4.4	7
33	Adaptive guidance for UAV based on Dubins path. , 2013, , .		6
34	Safe operation of dual-fuel engines using constrained stochastic control. International Journal of Engine Research, 2022, 23, 285-299.	1.4	5
35	Ammonia injection failure diagnostic and correction in engine after-treatment system by NOx and NH3 emissions observation. Fuel, 2022, 322, 123936.	3.4	4
36	Closed-Loop Combustion Control by Extremum Seeking with the Passive-Chamber Ignition Concept in SI Engines. , 0, , .		3

#	Article	IF	Citations
37	Individual cylinder fuel blend estimation in a dual-fuel engine using an in-cylinder pressure based observer. Control Engineering Practice, 2021, 109, 104760.	3.2	2
38	Identification of Adequate Combustion in Turbulent Jet Ignition Engines using Machine Learning Algorithms. IFAC-PapersOnLine, 2021, 54, 102-107.	0.5	2
39	Improving CO2 emission assessment of diesel-based powertrains in dynamic driving cycles by data fusion techniques. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 362-372.	1.1	1
40	An analysis of the resonance attenuation in a combustion chamber. International Journal of Engine Research, 2023, 24, 1714-1723.	1.4	1
41	On-Line Optimization of Dual-Fuel Combustion Operation by Extremum Seeking Techniques. , 0, , .		0
42	Case studyâ€based learning using a computational tool to improve the understanding of the jet engine cycle for aerospace engineering degree students. Computer Applications in Engineering Education, 0, , .	2.2	0