

James C Peyton Jones

List of Publications by Year in descending order

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39
papers

961
citations

623188

14
h-index

525886

27
g-index

39
all docs

39
docs citations

39
times ranked

355
citing authors

#	ARTICLE	IF	CITATIONS
1	The statistical properties of raw knock signal time histories. <i>Mechanical Systems and Signal Processing</i> , 2021, 156, 107660.	4.4	4
2	A Bayesian Knock Event Controller. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 1627-1637.	3.2	10
3	Parametric modelling of knock intensity data using a dual log-normal model. <i>International Journal of Engine Research</i> , 2020, 21, 1026-1036.	1.4	10
4	Recent advances and comparisons between harmonic balance and Volterra-based nonlinear frequency response analysis methods. <i>Nonlinear Dynamics</i> , 2018, 91, 131-145.	2.7	8
5	Computing the closed-loop characteristics of a generalized multi-threshold knock controller. <i>International Journal of Engine Research</i> , 2018, 19, 952-962.	1.4	6
6	A new harmonic probing algorithm for computing the MIMO Volterra frequency response functions of nonlinear systems. <i>Nonlinear Dynamics</i> , 2018, 94, 1029-1046.	2.7	5
7	Closed loop statistical performance analysis of N-K knock controllers. <i>Mechanical Systems and Signal Processing</i> , 2017, 94, 253-266.	4.4	5
8	A dual-threshold knock controller. <i>International Journal of Engine Research</i> , 2017, 18, 837-846.	1.4	8
9	Stochastic Simulation and Performance Analysis of Classical Knock Control Algorithms. <i>IEEE Transactions on Control Systems Technology</i> , 2017, 25, 1307-1317.	3.2	13
10	Experimental Validation of a Likelihood-Based Stochastic Knock Controller. <i>IEEE Transactions on Control Systems Technology</i> , 2016, 24, 1407-1418.	3.2	26
11	Stochastic simulation and analysis of a classical knock controller. <i>International Journal of Engine Research</i> , 2015, 16, 461-473.	1.4	21
12	Scanning probe microscope trajectory measurement by scanning a single feature. , 2015, , .		0
13	Characterization of knock intensity distributions: Part 1: statistical independence and scalar measures. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2014, 228, 117-128.	1.1	54
14	Optimizing knock thresholds for improved knock control. <i>International Journal of Engine Research</i> , 2014, 15, 123-132.	1.4	25
15	Likelihood-Based Control of Engine Knock. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 2169-2180.	3.2	59
16	Characterization of knock intensity distributions: Part 2: parametric models. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2013, 227, 1650-1660.	1.1	30
17	Tuning and experimental evaluation of a likelihood-based engine knock controller. , 2013, , .		9
18	Application of a coordinated trajectory planning and real-time obstacle avoidance algorithm. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
19	A cumulative-summation-based stochastic knock controller. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2010, 224, 969-983.	1.1	42
20	A symbolic algorithm for the automatic computation of multitone-input harmonic balance equations for nonlinear systems. Nonlinear Dynamics, 2009, 56, 179-191.	2.7	3
21	Identification and adaptation of linear look-up table parameters using an efficient recursive least-squares technique. ISA Transactions, 2009, 48, 476-483.	3.1	26
22	Adaptive Analytical Model-Based Control for SI Engine Air-Fuel Ratio. IEEE Transactions on Control Systems Technology, 2008, 16, 763-768.	3.2	39
23	A probability density metric for automotive three-way catalyst diagnostics. , 2008, , .		0
24	Probability density diagnostic metric for an integrated three-way catalyst controller and monitor. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2008, 222, 2185-2194.	1.1	0
25	Contributions to Adjacent Channel Power in Microwave and Wireless Systems by PIN Diodes. , 2006, , .		2
26	Practical frequency response analysis of non-linear time-delayed differential or difference equation models. International Journal of Control, 2005, 78, 65-79.	1.2	4
27	Polyharmonic Balance Analysis of Nonlinear Ship Roll Response. Nonlinear Dynamics, 2004, 35, 123-146.	2.7	8
28	Automatic computation of polyharmonic balance equations for non-linear differential systems. International Journal of Control, 2003, 76, 355-365.	1.2	14
29	Oxygen Storage Modeling in Three-Way Catalytic Converters. Industrial & Engineering Chemistry Research, 2002, 41, 1152-1165.	1.8	81
30	Cylinder Pressure Variations as a Stochastic Process. , 1997, , .		23
31	Describing functions, Volterra series, and the analysis of non-linear systems in the frequency domain. International Journal of Control, 1991, 53, 871-887.	1.2	33
32	Interpretation of non-linear frequency response functions. International Journal of Control, 1990, 52, 319-346.	1.2	50
33	Mapping non-linear integro-differential equations into the frequency domain. International Journal of Control, 1990, 52, 863-879.	1.2	154
34	Recursive algorithm for computing the frequency response of a class of non-linear difference equation models. International Journal of Control, 1989, 50, 1925-1940.	1.2	168
35	Recent Advances in Knock Analysis, Simulation, and Control. SAE International Journal of Engines, 0, 7, 947-955.	0.4	16
36	The statistical characteristics of knock signal waveforms. International Journal of Engine Research, 0, , 146808742110344.	1.4	0

#	ARTICLE	IF	CITATIONS
37	A Hands-on Introduction to Embedded Systems & IoT. , 0, , .		1
38	The VU-LEGO Real Time Target: Taking Student Designs to Implementation. , 0, , .		1
39	Low-cost, High-capability, Embedded Systems for Education and Research: A Toolbox for the Microsoft Kinect. , 0, , .		0