

Craig P Lawson

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

357
citations

1163117

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940533

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g-index

42
all docs

42
docs citations

42
times ranked

297
citing authors

#	ARTICLE	IF	CITATIONS
1	A Generic Mission-Level Flight Control Surface EMA Power Consumption Simulation Tool. Aerospace, 2022, 9, 290.	2.2	1
2	Review for State-of-the-Art Health Monitoring Technologies on Airframe Fuel Pumps. International Journal of Prognostics and Health Management, 2022, 13, .	0.8	4
3	Rapid design of aircraft fuel quantity indication systems via multi-objective evolutionary algorithms. Integrated Computer-Aided Engineering, 2021, 28, 141-158.	4.6	6
4	Framework for integrated dynamic thermal simulation of future civil transport aircraft. , 2020, , .		2
5	Experimental investigation into aircraft system manual assembly performance under varying structural component orientations. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 840-855.	2.4	13
6	Using requirement-functional-logical-physical models to support early assembly process planning for complex aircraft systems integration. Journal of Manufacturing Systems, 2020, 54, 242-257.	13.9	23
7	Physics-Based Thermal Model for Power Gearboxes in Geared Turbofan Engines. , 2020, , .		1
8	Improving the operating efficiency of the more electric aircraft concept through optimised flight procedures. CEAS Aeronautical Journal, 2019, 10, 463-478.	1.7	5
9	Benefit and performance impact analysis of using hydrogen fuel cell powered e-taxi system on A320 class airliner. Aeronautical Journal, 2019, 123, 378-397.	1.6	7
10	Analytical investigation into the effects of nitrogen enriched air bubbles to improve aircraft fuel system water management. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 861-870.	1.3	5
11	Impact of Engine Degradation on Optimum Aircraft Trajectories: Short Range. , 2019, , .		0
12	Simulating actuator energy consumption for trajectory optimisation. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 2178-2192.	1.3	3
13	A practical method to account for seal friction in aircraft hydraulic actuator preliminary design. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 941-950.	1.3	7
14	Aircraft Wing Build Philosophy Change through System Pre-Equipping of Major Components. SAE International Journal of Aerospace, 2016, 9, 190-197.	4.0	3
15	Formation flight investigation for highly efficient future civil transport aircraft. Aeronautical Journal, 2016, 120, 1081-1100.	1.6	2
16	Development of an automated aircraft subsystem architecture generation and analysis tool. Engineering Computations, 2016, 33, 1327-1352.	1.4	13
17	Development of a tool to study aircraft trajectory optimisation in the presence of icing conditions. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 1464-1484.	1.3	3
18	Electrical load-sizing methodology to aid conceptual and preliminary design of large commercial aircraft. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 445-466.	1.3	10

#	ARTICLE	IF	CITATIONS
19	Application of an automated aircraft architecture generation and analysis tool to unmanned aerial vehicle subsystem design. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 1690-1708.	1.3	4
20	Simulation for temperature control of a military aircraft cockpit to avoid pilot's thermal stress. CEAS Aeronautical Journal, 2015, 6, 319-333.	1.7	8
21	Design manufacturing integration and flight testing of a health monitoring system for a prototype unmanned airborne vehicle. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 997-1009.	1.3	4
22	Behaviour of water in jet fuel – A literature review. Progress in Aerospace Sciences, 2013, 60, 35-44.	12.1	69
23	The development of a design methodology for dynamic power distribution management on a civil transport all electric aircraft. Aerospace Science and Technology, 2013, 25, 125-131.	4.8	12
24	Defining Integrated Vehicle Health Management Requirements for Unmanned Aircraft Using a QFD Approach. , 2013, , .		1
25	Tip fin inclination effect on structural design of a box-wing aircraft. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2013, 227, 175-184.	1.3	3
26	Multidisciplinary optimisation framework for minimum rotorcraft fuel and air pollutants at mission level. Aeronautical Journal, 2013, 117, 749-767.	1.6	7
27	Assessing Vehicle Health Management Requirements for Unmanned Air Systems. , 2012, , .		1
28	Methodology for Automated Aircraft Systems Architecture Enumeration and Analysis. , 2012, , .		6
29	Dimensional Analysis to Parameterise Ice Accretion on Mesh Strainers. , 2011, , .		6
30	Design, Build and Flight of The DEMON Demonstrator UAV. , 2011, , .		11
31	A METHODOLOGY FOR LOW-COST, RAPID IMPLEMENTATION SOLUTIONS FOR AIRFRAME SYSTEMS OF UAV PROTOTYPES. , 2010, , .		0
32	Feasibility Study of OBIGGS for Water Contamination Control in Aircraft Fuel Tanks. , 2010, , .		8
33	The application of a new research and development project selection model in SMEs. Technovation, 2006, 26, 242-250.	7.8	60
34	Tubomachinery blade vibration amplitude measurement through tip timing with capacitance tip clearance probes. Sensors and Actuators A: Physical, 2005, 118, 14-24.	4.1	20
35	The Measurement of Turbomachinery Blade Vibration Through Tip Timing With Capacitance Tip Clearance Probes. , 2004, , 605.		2
36	Compressor Blade Tip Timing Using Capacitance Tip Clearance Probes. , 2003, , 337.		4

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37	The Use of Commercially Available Capacitance Tip-Clearance Probes for Tip-Timing of Aero-Engine Compressor Blades. , 2002, , .		5
38	Environmental Impact Assessment, on the Operation of Conventional and More Electric Large Commercial Aircraft. SAE International Journal of Aerospace, 0, 6, 56-64.	4.0	11
39	Trajectory Optimization of Airliners to Minimize Environmental Impact. , 0, , .		1
40	Effects of Ice Accretion in an Aircraft Protective Mesh Strainer of a Fuel Pump. , 0, , .		3