

Andrew Plummer

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

561
citations

759055

12
h-index

642610

23
g-index

42
all docs

42
docs citations

42
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of titanium-based TiAl ₆ V ₄ alloys manufactured by powder bed additive manufacture. <i>Materials Science and Technology</i> , 2017, 33, 138-148.	0.8	77
2	Non-linear control of a hydraulic piezo-valve using a generalised Prandtl-Ishlinskii hysteresis model. <i>Mechanical Systems and Signal Processing</i> , 2017, 82, 412-431.	4.4	68
3	The Burning Rate of Energetic Films of Nanostructured Porous Silicon. <i>Small</i> , 2011, 7, 3392-3398.	5.2	50
4	Understanding LSTM Network Behaviour of IMU-Based Locomotion Mode Recognition for Applications in Prostheses and Wearables. <i>Sensors</i> , 2021, 21, 1264.	2.1	38
5	Experimental Investigation of a Switched Inertance Hydraulic System With a High-Speed Rotary Valve. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015, 137, .	0.9	36
6	A general co-ordinate transformation framework for multi-axis motion control with applications in the testing industry. <i>Control Engineering Practice</i> , 2010, 18, 598-607.	3.2	34
7	Theoretical and experimental studies of a switched inertance hydraulic system. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2014, 228, 12-25.	0.7	30
8	Behavioural prediction of hydraulic step-up switching converters. <i>International Journal of Fluid Power</i> , 2014, 15, 1-9.	0.7	23
9	Digital switched hydraulics. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 225-231.	2.5	19
10	Theoretical and experimental studies of a switched inertance hydraulic system including switching transition dynamics, non-linearity and leakage. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2014, 228, 802-815.	0.7	17
11	Combined thermal and FTIR analysis of porous silicon based nano-energetic films. <i>RSC Advances</i> , 2017, 7, 7338-7345.	1.7	14
12	Development of a tilt control method for a narrow-track three-wheeled vehicle. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2012, 226, 48-69.	1.1	13
13	Real-Time Wave Excitation Forces Estimation: An Application on the ISWEC Device. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 825.	1.2	13
14	Lateral dynamics simulations of a three-wheeled tilting vehicle. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015, 229, 342-356.	1.1	12
15	Sensitiveness of Porous Silicon-Based Nano-Energetic Films. <i>Propellants, Explosives, Pyrotechnics</i> , 2016, 41, 1029-1035.	1.0	12
16	A dual lane piezoelectric ring bender actuated nozzle-flapper servo valve for aero engine fuel metering. <i>Smart Materials and Structures</i> , 2019, 28, 115015.	1.8	11
17	Testing an Electrohydrostatic Powered Ankle Prosthesis with Transtibial and Transfemoral Amputees. <i>IFAC-PapersOnLine</i> , 2016, 49, 185-191.	0.5	8
18	Adaptive height controller for an agile hopping robot. <i>Robotics and Autonomous Systems</i> , 2017, 98, 126-134.	3.0	8

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19	Evaluation of the sub-surface morphology and composition of gunshot residue using focussed ion beam analysis. <i>Forensic Science International</i> , 2019, 297, 100-110.	1.3	8
20	Modelling and analysis of hydraulic step-down switching converters. <i>International Journal of Fluid Power</i> , 2015, 16, 111-121.	0.7	7
21	Laser shock ignition of porous silicon based nano-energetic films. <i>Journal of Applied Physics</i> , 2014, 116, 054912.	1.1	6
22	Hybrid Fluid-borne Noise Control in Fluid-filled Pipelines. <i>Journal of Physics: Conference Series</i> , 2016, 744, 012016.	0.3	6
23	Analysis of elemental and isotopic variation in glass frictionators from 0.22 rimfire primers. <i>Forensic Science International</i> , 2018, 293, 47-62.	1.3	6
24	Experimental Investigation of a Switched Inertance Hydraulic System. , 2014, , .		5
25	The Design of a Powered Ankle Prosthesis With Electrohydrostatic Actuation. , 2015, , .		5
26	A Review of Switched Inertance Hydraulic Converter Technology. , 2018, , .		5
27	Direct PCR of fired shotgun casings: a South Australian evaluation. <i>Australian Journal of Forensic Sciences</i> , 2022, 54, 358-364.	0.7	5
28	Learning control strategies for high-rate materials testing machines. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2011, 225, 1125-1135.	0.7	3
29	Energy Efficient Variable Pressure Valve-Controlled Hydraulic Actuation. , 2011, , .		3
30	Active Control of Pressure Pulsation in a Piping System Using Measured Dynamic Flow Rate. , 2013, , .		3
31	Dynamic friction modelling without drift and its application in the simulation of a valve controlled hydraulic cylinder system. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2014, 8, JAMDSM0075-JAMDSM0075.	0.3	3
32	The Design, Analysis and Testing of a Compact Electrohydrostatic Powered Ankle Prosthesis. , 2016, , .		3
33	The Influence of Passive Valve Characteristics on the Performance of a Piezo Pump. , 2013, , .		2
34	Investigating Balancing Control of a Standing Bipedal Robot With Point Foot Contact. <i>IFAC-PapersOnLine</i> , 2016, 49, 403-408.	0.5	2
35	Closed Loop Position and Pre-Stress Control for a Morphing Aircraft Wing With Distributed Multi-Axis Pneumatic Actuation. , 2018, , .		2
36	A Study of a Compliant Hydraulic Actuator for Running Robots. , 2018, , .		2

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37	Investigation of Hardware-in-the-Loop Walking/Running Test with Spring Mass System. Lecture Notes in Computer Science, 2017, , 126-133.	1.0	1
38	Instantaneous control of a vertically hopping leg's total step-time. , 2013, , .		0
39	Wave-to-Wire Simulation of Hydraulic Wave Energy Converter. , 2017, , .		0
40	Past editor, Professor Necip Sahinkaya, who passed away on 24 January 2020. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 426-426.	0.7	0
41	An appreciation of Professor Cliff Burrows OBE FEng, who passed away on Sunday 19 April 2020. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 424-425.	0.7	0