

Henrik C Pedersen

List of Publications by Year in descending order

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papers

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29
docs citations

29
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167
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimum Design of a Moving Coil Actuator for Fast-Switching Valves in Digital Hydraulic Pumps and Motors. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2761-2770.	5.8	43
2	Position Control of an Over-Actuated Direct Hydraulic Cylinder Drive. Control Engineering Practice, 2017, 64, 1-14.	5.5	31
3	Investigation of New Servo Drive Concept Utilizing Two Fixed Displacement Units. JFPS International Journal of Fluid Power System, 2014, 8, 1-9.	0.3	16
4	Fluid Stiction Modeling for Quickly Separating Plates Considering the Liquid Tensile Strength. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	14
5	Early Detection of Coil Failure in Solenoid Valves. IEEE/ASME Transactions on Mechatronics, 2020, 25, 683-693.	5.8	13
6	Optimum design of seat region in valves suitable for digital displacement machines. International Journal of Mechatronics and Automation, 2014, 4, 116.	0.2	11
7	Speed-Variable Switched Differential Pump System for Direct Operation of Hydraulic Cylinders. , 2015, , .		11
8	Signal-Based Gas Leakage Detection for Fluid Power Accumulators in Wind Turbines. Energies, 2017, 10, 331.	3.1	10
9	DESIGN AND MODELLING OF FAST SWITCHING EFFICIENT SEAT VALVES FOR DIGITAL DISPLACEMENT PUMPS. Transactions of the Canadian Society for Mechanical Engineering, 2013, 37, 71-88.	0.8	9
10	Reliability based design of fluid power pitch systems for wind turbines. Wind Energy, 2017, 20, 1097-1110.	4.2	9
11	Design, Optimization and Analysis of Hydraulic Soft Yaw System for 5 MW Wind Turbine. Wind Engineering, 2011, 35, 529-549.	1.9	8
12	Discrete Linear Time Invariant Analysis of Digital Fluid Power Pump Flow Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	8
13	Model based feasibility study on bidirectional check valves in wave energy converters. International Journal of Marine Energy, 2014, 5, 1-23.	1.8	7
14	Fault Detection and Diagnosis Methods for Fluid Power Pitch System Componentsâ€”A Review. Energies, 2021, 14, 1305.	3.1	7
15	Reliable Fluid Power Pitch Systems: A Review of State of the Art for Design and Reliability Evaluation of Fluid Power Systems. , 2015, , .		5
16	2-SMC of Electro-Hydraulic Drives Using the Twisting Algorithm. Applied Mechanics and Materials, 2012, 233, 131-134.	0.2	4
17	Optimization of geometry of annular seat valves suitable for Digital Displacement fluid power pumps/motors. , 2013, , .		4
18	Design and Experimental Validation of Hydraulic Yaw System for Multi MW Wind Turbine. International Journal of Fluid Power, 2013, 14, 27-38.	0.7	4

#	ARTICLE	IF	CITATIONS
19	Oil Stiction in Fast Switching Annular Seat Valves for Digital Displacement Fluid Power Machines. , 2014, , .		4
20	Preliminary findings of soft yaw concept. , 2011, , .		3
21	Analysis of Temperature's Influence on a Digital Displacement Pump's Volumetric Efficiency. Applied Mechanics and Materials, 2012, 233, 24-27.	0.2	3
22	Robust Position Tracking for Electro-Hydraulic Drives Based on Generalized Feedforward Compensation Approach. Applied Mechanics and Materials, 0, 233, 100-103.	0.2	3
23	Topology selection and analysis of actuator for seat valves suitable for use in Digital Displacement pumps/motors. , 2013, , .		3
24	Investigation of Self Yaw and its Potential Using a Hydraulic Soft Yaw System for 5 MW Wind Turbine. Wind Engineering, 2013, 37, 165-181.	1.9	3
25	Measurements of a Novel Digital Hydraulic Valve Comprising a Cushioning Feature. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	3
26	An approach for state observation in dynamical systems based on the twisting algorithm. , 2013, , .		1
27	Design of Bidirectional Check Valve for Discrete Fluid Power Force System for Wave Energy Converters. , 2013, , .		1
28	Experimental Validation of Leakage Detection in a Fluid Power Pitch System Using a State Augmented EKF-Approach. , 2020, , .		1
29	A novel control approach based on second order sliding modes & its application to hydraulic drives. , 2013, , .		0