

Per Johansen

List of Publications by Year in descending order

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40
papers

209
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1307594

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all docs

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docs citations

41
times ranked

120
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparison of Adaptive Ultrasound Reflectometry Calibration Methods for Use in Lubrication Films. <i>Energies</i> , 2022, 15, 3240.	3.1	1
2	Adaptive ultrasound reflectometry for lubrication film thickness measurements. <i>Measurement Science and Technology</i> , 2020, 31, 025108.	2.6	6
3	Feedback Control of Pulse-Density-Modulated Digital Displacement Transmission Using a Continuous Approximation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2472-2482.	5.8	4
4	Optimal control of a wind turbine with digital fluid power transmission. <i>Nonlinear Dynamics</i> , 2018, 91, 591-607.	5.2	23
5	Spectrum Estimation in Autocalibration of Ultrasonic Reflectometry Methods for Lubrication Film Thickness Measurements. , 2018, , .		2
6	Layer ToF Methods for Ultrasonic Lubrication-film Thickness Measurements. , 2018, , .		2
7	Isogeometric Tribodynamics of a Radial Piston Fluid Power Motor. , 2018, , .		1
8	Model Predictive Control and Discrete Analysis of Partial Stroke Operated Digital Displacement Unit. , 2018, , .		0
9	Challenges with Respect to Control of Digital Displacement Hydraulic Units. <i>Modeling, Identification and Control</i> , 2018, 39, 91-105.	1.1	7
10	Model Predictive Control of Low-Speed Partial Stroke Operated Digital Displacement Pump Unit. <i>Modeling, Identification and Control</i> , 2018, 39, 167-177.	1.1	5
11	Four Quadrant Hybrid Control Oriented Dynamical System Model of Digital Displacement ^Å Units. , 2018, , .		0
12	Discrete Linear Time Invariant Analysis of Digital Fluid Power Pump Flow Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017, 139, .	1.6	8
13	Event-Driven Control of a Speed Varying Digital Displacement Machine. , 2017, , .		7
14	A Robust Control Concept for Hydraulic Drives Based on Second Order Sliding Mode Disturbance Compensation. , 2017, , .		2
15	Investigation of Squeeze Film Damping and Associated Loads. , 2017, , .		2
16	LQR Feedback Control Development for Wind Turbines Featuring a Digital Fluid Power Transmission System. , 2016, , .		12
17	State of the Art Review on Theoretical Tribology of Fluid Power Displacement Machines. , 2016, , .		1
18	Influence of the Lubricant Thermo-Piezo-Viscous Property on Hydrostatic Bearings in Oil Hydraulics. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	Analysis of the Thermo-Viscous Effect on Friction and Energy Dissipation in Oil Lubricated Interfaces. , 2016, , .		1
20	Modeling of Dynamic Fluid Forces in Fast Switching Valves. , 2015, , .		2
21	On the Influence of Piston and Cylinder Density in Tribodynamics of a Radial Piston Digital Fluid Power Displacement Motor. , 2015, , .		6
22	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
23	On the application of reynolds theory to thermo-piezo-viscous lubrication in oil hydraulics. , 2015, , .		2
24	Modeling of movement-induced and flow-induced fluid forces in fast switching valves. , 2015, , .		6
25	Morphological topology generation of a digital fluid power displacement unit using Chebychev-Grübler-Kutzbach constraint. , 2015, , .		1
26	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
27	Analytical Thermal Field Theory Applicable to Oil Hydraulic Fluid Film Lubrication. , 2014, , .		3
28	Design Method for Fast Switching Seat Valves for Digital Displacement [®] Machines. , 2014, , .		4
29	Oil Stiction in Fast Switching Annular Seat Valves for Digital Displacement Fluid Power Machines. , 2014, , .		4
30	Asymptotic Approximation of Laminar Lubrication Thermal Field at Low Reduced Peclet and Brinkman Number. Journal of Tribology, 2014, 136, .	1.9	4
31	Optimum design of seat region in valves suitable for digital displacement machines. International Journal of Mechatronics and Automation, 2014, 4, 116.	0.2	11
32	Topology selection and analysis of actuator for seat valves suitable for use in Digital Displacement pumps/motors. , 2013, , .		3
33	Optimization of geometry of annular seat valves suitable for Digital Displacement fluid power pumps/motors. , 2013, , .		4
34	Multibody Dynamics of a Fluid Power Radial Piston Motor Including Transient Hydrodynamic Pressure Models in Lubricating Gaps. , 2013, , .		0
35	Simulation of Dynamic Behaviour of a Digital Displacement Motor Using Transient 3D Computational Fluid Dynamics Analysis. , 2013, , .		2
36	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

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37	Analysis of Temperature's Influence on a Digital Displacement Pump's Volumetric Efficiency. Applied Mechanics and Materials, 2012, 233, 24-27.	0.2	3
38	Method for Lumped Parameter Simulation of Digital Displacement Pumps/Motors Based on CFD. Applied Mechanics and Materials, 0, 397-400, 615-620.	0.2	1
39	Fluid Stiction From a Contact Condition. International Journal of Fluid Power, 0, , .	0.7	0
40	Control and Performance Analysis of a Digital Direct Hydraulic Cylinder Drive. International Journal of Fluid Power, 0, , .	0.7	2