

# Travis Wiens

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9395479/publications.pdf>

Version: 2024-02-01

24  
papers

116  
citations

1683934

5  
h-index

1372474

10  
g-index

24  
all docs

24  
docs citations

24  
times ranked

143  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of suction flow characteristic in the inertance hydraulic converters for efficiency improvement. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2022, 236, 3-25.	0.7	0
2	Data for evaluating mine roof stability via acoustic impact. Data in Brief, 2022, 41, 107854.	0.5	0
3	Characteristic investigation of a flow-dependent inertia hydraulic converter driven by an equivalent fast switching valve. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 3354-3374.	1.1	0
4	An Analytical Solution for Unsteady Laminar Flow in Tubes with a Tapered Wall Thickness. Fluids, 2021, 6, 170.	0.8	2
5	A model of feedforward, global, and lateral inhibition in the locust visual system predicts responses to looming stimuli. Biological Cybernetics, 2021, 115, 245-265.	0.6	6
6	Using acoustic impacts and machine learning for safety classification of mine roofs. International Journal of Rock Mechanics and Minings Sciences, 2021, 147, 104912.	2.6	2
7	A Low-Cost Miniature Electrohydrostatic Actuator System. Actuators, 2020, 9, 130.	1.2	7
8	Modeling Arbitrarily Shaped Liquid Pipelines Using a Segmented Transmission Line Model. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	0.9	1
9	Development of a Physical Analog Excavator for Studies in Interactions Between Hydraulic Equipment and Human Operators. , 2020, , .		0
10	A Low-Cost Miniature Electrohydrostatic Actuator. , 2020, 64, .		1
11	Simulation and experiment of vibrational or acoustic communication in mining and oil-gas drill strings. Transactions of the Canadian Society for Mechanical Engineering, 2019, 43, 454-462.	0.3	3
12	Transmission Line Modeling of Laminar Liquid Wave Propagation in Tapered Tubes. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	0.8	3
13	Engine speed reduction for hydraulic machinery using predictive algorithms. International Journal of Hydromechatronics, 2019, 2, 16.	1.0	63
14	Optimizing a Segmented Transmission Line Model for Dynamic Flows in Arbitrarily Tapered Pipelines. , 2019, , .		0
15	Application of Data Reduction Techniques to Dynamic Condition Monitoring of an Axial Piston Pump. , 2019, , .		1
16	An efficient, compact and low-cost Dual Cylinder Hydrostatic Actuator (DCHA). International Journal of Fluid Power, 2018, 19, 80-90.	0.7	5
17	An Improved Transmission Line Model for Dynamic Laminar Flow Through Tapered Tubes. , 2018, , .		1
18	A Comparison of Hydraulic and Electrical Switch-Mode Converters. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Improving Performance of a Switched Inertance Buck Converter Via Positioning of Reservoir Flow Valve. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	7
20	An Efficient, High Performance and Low-Cost Energy Recovering Hydrostatic Linear Actuator Concept. , 2016, , .		2
21	Ray Tracing Using Radial Basis Function Networks. Journal of Vibration and Acoustics, Transactions of the ASME, 2016, 138, .	1.0	2
22	A Multisodar Approach to Wind Profiling. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1165-1174.	0.5	4
23	Optimization and Experimental Verification of a Variable Ratio Flow Divider Valve. International Journal of Fluid Power, 2005, 6, 45-53.	0.7	6
24	Preliminary Experimental Verification of an Intelligent Fuel Air Ratio Controller. , 0, , .		0