

Amos G Winter, V

List of Publications by Year in descending order

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31
papers

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840776

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#	ARTICLE	IF	CITATIONS
1	Design of a Four-Bar Latch Mechanism and a Shear-Based Rotary Viscous Damper for Single-Axis Prosthetic Knees. <i>Journal of Mechanisms and Robotics</i> , 2022, 14, .	2.2	3
2	Analytical model for predicting activation pressure and flow rate of pressure-compensating inline drip emitters and its use in low-pressure emitter design. <i>Irrigation Science</i> , 2022, 40, 217-237.	2.8	4
3	Biomechanical evaluation over level ground walking of user-specific prosthetic feet designed using the lower leg trajectory error framework. <i>Scientific Reports</i> , 2022, 12, 5306.	3.3	4
4	Voltage- and flow-controlled electro dialysis batch operation: Flexible and optimized brackish water desalination. <i>Desalination</i> , 2021, 500, 114837.	8.2	9
5	Knee Swing Phase Flexion Resistance Affects Several Key Features of Leg Swing Important to Safe Transfemoral Prosthetic Gait. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 965-973.	4.9	6
6	Experimental Demonstration of the Lower Leg Trajectory Error Framework Using Physiological Data as Inputs. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	1.3	7
7	Field demonstration of a cost-optimized solar powered electro dialysis reversal desalination system in rural India. <i>Desalination</i> , 2020, 476, 114217.	8.2	24
8	Energy Reduction and Uniformity of Low-Pressure Online Drip Irrigation Emitters in Field Tests. <i>Water (Switzerland)</i> , 2019, 11, 1195.	2.7	10
9	Using feed-forward voltage-control to increase the ion removal rate during batch electro dialysis desalination of brackish water. <i>Desalination</i> , 2019, 457, 62-74.	8.2	11
10	Design of spiral-wound electro dialysis modules. <i>Desalination</i> , 2019, 458, 54-65.	8.2	5
11	Optimization and design of a low-cost, village-scale, photovoltaic-powered, electro dialysis reversal desalination system for rural India. <i>Desalination</i> , 2019, 452, 265-278.	8.2	33
12	Design and Preliminary Field Validation of a Fully Passive Prosthetic Knee Mechanism for Users With Transfemoral Amputation in India. <i>Journal of Mechanisms and Robotics</i> , 2018, 10, .	2.2	15
13	Design and Testing of a Prosthetic Foot With Interchangeable Custom Springs for Evaluating Lower Leg Trajectory Error, an Optimization Metric for Prosthetic Feet. <i>Journal of Mechanisms and Robotics</i> , 2018, 10, .	2.2	8
14	Design of a Passive, Shear-Based Rotary Hydraulic Damper for Single-Axis Prosthetic Knees. , 2018, , .		2
15	Cost-optimal design of a batch electro dialysis system for domestic desalination of brackish groundwater. <i>Desalination</i> , 2018, 443, 198-211.	8.2	32
16	A Novel Framework for Quantitatively Connecting the Mechanical Design of Passive Prosthetic Feet to Lower Leg Trajectory. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1544-1555.	4.9	9
17	Passive Prosthetic Foot Shape and Size Optimization Using Lower Leg Trajectory Error. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2018, 140, .	2.9	10
18	A robust model of brackish water electro dialysis desalination with experimental comparison at different size scales. <i>Desalination</i> , 2018, 443, 27-43.	8.2	77

#	ARTICLE	IF	CITATIONS
19	Control of Flow Limitation in Flexible Tubes. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	5
20	Feasibility study of an electro dialysis system for in-home water desalination in urban India. Development Engineering, 2017, 2, 38-46.	1.8	48
21	Modular Design of a Passive, Low-Cost Prosthetic Knee Mechanism to Enable Able-Bodied Kinematics for Users With Transfemoral Amputation. , 2017, , .		2
22	Passive Prosthetic Foot Shape and Size Optimization Using Lower Leg Trajectory Error. , 2017, , .		2
23	The Effects of the Inertial Properties of Above-Knee Prostheses on Optimal Stiffness, Damping, and Engagement Parameters of Passive Prosthetic Knees. Journal of Biomechanical Engineering, 2016, 138, .	1.3	9
24	A Novel Bio-Inspired Pressure Compensating Emitter for Low-Cost Drip Irrigation Systems. , 2016, , .		0
25	The Effects of Prosthesis Inertial Properties on Prosthetic Knee Moment and Hip Energetics Required to Achieve Able-Bodied Kinematics. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 754-763.	4.9	34
26	Developing World Users as Lead Users: A Case Study in Engineering Reverse Innovation. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	2.9	22
27	Lower Leg Trajectory Error: A novel optimization parameter for designing passive prosthetic feet. , 2015, , .		4
28	Justification for community-scale photovoltaic-powered electro dialysis desalination systems for inland rural villages in India. Desalination, 2014, 352, 82-91.	8.2	90
29	Localized fluidization burrowing mechanics of <i>Ensis directus</i> . Journal of Experimental Biology, 2012, 215, 2072-2080.	1.7	73
30	Identification and Evaluation of the Atlantic Razor Clam (<i>Ensis directus</i>) for Biologically Inspired Subsea Burrowing Systems. Integrative and Comparative Biology, 2011, 51, 151-157.	2.0	24
31	Teaching RoboClam to Dig: The design, testing, and genetic algorithm optimization of a biomimetic robot. , 2010, , .		16