

# Louis N Awad

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,726  
citations

471509

17  
h-index

395702

33  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1530  
citing authors

#	ARTICLE	IF	CITATIONS
1	A soft robotic exosuit improves walking in patients after stroke. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	439
2	Walking Speed and Step Length Asymmetry Modify the Energy Cost of Walking After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 416-423.	2.9	143
3	Wearable Movement Sensors for Rehabilitation: A Focused Review of Technological and Clinical Advances. <i>PM and R</i> , 2018, 10, S220-S232.	1.6	129
4	A Lightweight and Efficient Portable Soft Exosuit for Paretic Ankle Assistance in Walking After Stroke. , 2018, , .		87
5	Paretic Propulsion and Trailing Limb Angle Are Key Determinants of Long-Distance Walking Function After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 499-508.	2.9	73
6	The ReWalk ReStore <sup>®</sup> , a soft robotic exosuit: a multi-site clinical trial of the safety, reliability, and feasibility of exosuit-augmented post-stroke gait rehabilitation. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 80.	4.6	72
7	Targeting Paretic Propulsion to Improve Poststroke Walking Function: A Preliminary Study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2014, 95, 840-848.	0.9	69
8	Walking Faster and Farther With a Soft Robotic Exosuit: Implications for Post-Stroke Gait Assistance and Rehabilitation. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2020, 1, 108-115.	2.3	64
9	Contribution of Paretic and Nonparetic Limb Peak Propulsive Forces to Changes in Walking Speed in Individuals Poststroke. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 743-752.	2.9	60
10	A Hinge-Free, Non-Restrictive, Lightweight Tethered Exosuit for Knee Extension Assistance During Walking. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020, 2, 165-175.	3.2	56
11	A soft exosuit for patients with stroke: Feasibility study with a mobile off-board actuation unit. , 2015, , .		55
12	Reducing The Cost of Transport and Increasing Walking Distance After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 661-670.	2.9	54
13	Reducing Circumduction and Hip Hiking During Hemiparetic Walking Through Targeted Assistance of the Paretic Limb Using a Soft Robotic Exosuit. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2017, 96, S157-S164.	1.4	51
14	Offline Assistance Optimization of a Soft Exosuit for Augmenting Ankle Power of Stroke Survivors During Walking. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 828-835.	5.1	49
15	These legs were made for propulsion: advancing the diagnosis and treatment of post-stroke propulsion deficits. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 139.	4.6	43
16	Biomechanical mechanisms underlying exosuit-induced improvements in walking economy after stroke. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	33
17	Toward Neuroscience of the Everyday World (NEW) using functional near-infrared spectroscopy. <i>Current Opinion in Biomedical Engineering</i> , 2021, 18, 100272.	3.4	31
18	Maximum Walking Speed Is a Key Determinant of Long Distance Walking Function After Stroke. <i>Topics in Stroke Rehabilitation</i> , 2014, 21, 502-509.	1.9	20

#	ARTICLE	IF	CITATIONS
19	A Music-Based Digital Therapeutic: Proof-of-Concept Automation of a Progressive and Individualized Rhythm-Based Walking Training Program After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2020, 34, 986-996.	2.9	20
20	Symmetry of corticomotor input to plantarflexors influences the propulsive strategy used to increase walking speed post-stroke. <i>Clinical Neurophysiology</i> , 2016, 127, 1837-1844.	1.5	18
21	Real-time gait metric estimation for everyday gait training with wearable devices in people poststroke. <i>Wearable Technologies</i> , 2021, 2, .	3.1	16
22	Identifying candidates for targeted gait rehabilitation after stroke: better prediction through biomechanics-informed characterization. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 84.	4.6	15
23	Central Drive to the Paretic Ankle Plantarflexors Affects the Relationship Between Propulsion and Walking Speed After Stroke. <i>Journal of Neurologic Physical Therapy</i> , 2020, 44, 42-48.	1.4	15
24	Distance-Induced Changes in Walking Speed After Stroke: Relationship to Community Walking Activity. <i>Journal of Neurologic Physical Therapy</i> , 2019, 43, 220-223.	1.4	13
25	Targeting Paretic Propulsion and Walking Speed With a Soft Robotic Exosuit: A Consideration-of-Concept Trial. <i>Frontiers in Neurorobotics</i> , 2021, 15, 689577.	2.8	13
26	Soft robotic exosuit augmented high intensity gait training on stroke survivors: a pilot study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2022, 19, .	4.6	12
27	Indirect measurement of anterior-posterior ground reaction forces using a minimal set of wearable inertial sensors: from healthy to hemiparetic walking. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 82.	4.6	10
28	Dynamic structure of lower limb joint angles during walking post-stroke. <i>Journal of Biomechanics</i> , 2018, 68, 1-5.	2.1	9
29	Estimation of Walking Speed and Its Spatiotemporal Determinants Using a Single Inertial Sensor Worn on the Thigh: From Healthy to Hemiparetic Walking. <i>Sensors</i> , 2021, 21, 6976.	3.8	8
30	O 089 - A soft robotic exosuit assisting the paretic ankle in patients post-stroke: Effect on muscle activation during overground walking. <i>Gait and Posture</i> , 2022, 95, 217-218.	1.4	7
31	Automated detection of soleus concentric contraction in variable gait conditions for improved exosuit control. , 2020, , .		7
32	Do Improvements in Balance Relate to Improvements in Long-Distance Walking Function after Stroke?. <i>Stroke Research and Treatment</i> , 2014, 2014, 1-6.	0.8	6
33	The Dynamic Motor Control Index as a Marker of Age-Related Neuromuscular Impairment. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 678525.	3.4	6
34	Ankle resistance with a unilateral soft exosuit increases plantarflexor effort during pushoff in unimpaired individuals. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021, 18, 182.	4.6	6
35	Effects of repeated treadmill testing and electrical stimulation on post-stroke gait kinematics. <i>Gait and Posture</i> , 2013, 37, 67-71.	1.4	5
36	Exosuit-induced improvements in walking after stroke: Comprehensive analysis on gait energetics and biomechanics. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
37	Soft exosuits increase walking speed and distance after stroke. , 2017, , .		3
38	Visual-Inertial Filtering for Human Walking Quantification. , 2021, , .		3
39	Automating a Progressive and Individualized Rhythm-based Walking Training Program After Stroke: Feasibility of a Music-based Digital Therapeutic. Archives of Physical Medicine and Rehabilitation, 2020, 101, e30.	0.9	1
40	Targeting post-stroke walking automaticity with a propulsion-augmenting soft robotic exosuit: toward a biomechanical and neurophysiological approach to assistance prescription. , 2021, , .		1
41	Isometric Quadriceps Strength Test Device to Improve the Reliability of Handheld Dynamometry in Patient With Anterior Cruciate Ligament Injury. , 2018, , .		0
42	Mobile Unilateral Hip Flexion Exosuit Assistance for Overground Walking in Individuals Post-Stroke: A Case Series. Biosystems and Biorobotics, 2022, , 357-361.	0.3	0