Luke E Osborn

List of Publications by Year
in descending order

21	629	1163117 8	1372567 10
papers	citations	h-index	g-index

21	21	21	824
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intracortical Somatosensory Stimulation to Elicit Fingertip Sensations in an Individual With Spinal Cord Injury. Neurology, 2022, 98, .	1.1	36
2	Monitoring at-home prosthesis control improvements through real-time data logging. Journal of Neural Engineering, 2022, 19, 036021.	3.5	2
3	Extended home use of an advanced osseointegrated prosthetic arm improves function, performance, and control efficiency. Journal of Neural Engineering, 2021, 18, 026020.	3.5	17
4	Towards machine to brain interfaces: sensory stimulation enhances sensorimotor dynamic functional connectivity in upper limb amputees. Journal of Neural Engineering, 2020, 17, 035002.	3.5	21
5	Sensory stimulation enhances phantom limb perception and movement decoding. Journal of Neural Engineering, 2020, 17, 056006.	3.5	14
6	An adaptive socket with auto-adjusting air bladders for interfacing transhumeral prosthesis: A pilot study. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 812-822.	1.8	5
7	Limb Position Tolerant Pattern Recognition for Myoelectric Prosthesis Control with Adaptive Sparse Representations From Extreme Learning. IEEE Transactions on Biomedical Engineering, 2018, 65, 770-778.	4.2	81
8	Predictive trajectory estimation during rehabilitative tasks in augmented reality using inertial sensors. , 2018, , .		4
9	A Mixed-Reality Training Environment for Upper Limb Prosthesis Control. , 2018, , .		11
10	Unsupervised Learning and Adaptive Classification of Neuromorphic Tactile Encoding of Textures. , 2018, , .		15
11	Dynamic Texture Decoding Using a Neuromorphic Multilayer Tactile Sensor. , 2018, , .		15
12	Prosthesis with neuromorphic multilayered e-dermis perceives touch and pain. Science Robotics, 2018, 3, .	17.6	280
13	Dynamic training protocol improves the robustness of PR-based myoelectric control. Biomedical Signal Processing and Control, 2017, 31, 249-256.	5.7	26
14	Live demonstration: Prosthesis grip force modulation using neuromorphic tactile sensing. , 2017, , .		7
15	Live demonstration â€" An adaptable prosthetic socket: Regulating independent air bladders through closed-loop control. , 2017, , .		1
16	Neuromimetic Event-Based Detection for Closed-Loop Tactile Feedback Control of Upper Limb Prostheses. IEEE Transactions on Haptics, 2016, 9, 196-206.	2.7	59
17	Biologically inspired multi-layered synthetic skin for tactile feedback in prosthetic limbs. , 2016, 2016, 4622-4625.		15
18	Limb-position robust classification of myoelectric signals for prosthesis control using sparse representations. , 2016, 2016, 6373-6376.		6

#	Article	IF	Citations
19	Real-time arm tracking for HMI applications. , 2015, 2015, .		5
20	Utilizing tactile feedback for biomimetic grasping control in upper limb prostheses. , 2013, 2013, .		8
21	Tribological Study of PTFE/Au Nanoparticle Composite Thin Films. , 2011, , .		1