

Luke E Osborn

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

629
citations

1162367

8
h-index

1372195

10
g-index

21
all docs

21
docs citations

21
times ranked

824
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracortical Somatosensory Stimulation to Elicit Fingertip Sensations in an Individual With Spinal Cord Injury. <i>Neurology</i> , 2022, 98, .	1.5	36
2	Monitoring at-home prosthesis control improvements through real-time data logging. <i>Journal of Neural Engineering</i> , 2022, 19, 036021.	1.8	2
3	Extended home use of an advanced osseointegrated prosthetic arm improves function, performance, and control efficiency. <i>Journal of Neural Engineering</i> , 2021, 18, 026020.	1.8	17
4	Towards machine to brain interfaces: sensory stimulation enhances sensorimotor dynamic functional connectivity in upper limb amputees. <i>Journal of Neural Engineering</i> , 2020, 17, 035002.	1.8	21
5	Sensory stimulation enhances phantom limb perception and movement decoding. <i>Journal of Neural Engineering</i> , 2020, 17, 056006.	1.8	14
6	An adaptive socket with auto-adjusting air bladders for interfacing transhumeral prosthesis: A pilot study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 812-822.	1.0	5
7	Limb Position Tolerant Pattern Recognition for Myoelectric Prosthesis Control with Adaptive Sparse Representations From Extreme Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 770-778.	2.5	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. <i>Science Robotics</i> , 2018, 3, .	9.9	280
13	Dynamic training protocol improves the robustness of PR-based myoelectric control. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 249-256.	3.5	26
14	Live demonstration: Prosthesis grip force modulation using neuromorphic tactile sensing. , 2017, , .		7
15	Live demonstration "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. <i>IEEE Transactions on Haptics</i> , 2016, 9, 196-206.	1.8	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