Helen J Huang

List of Publications by Year
in descending order

26 papers	1,341 citations	623734 14 h-index	642732 23 g-index
30 all docs	30 docs citations	30 times ranked	1749 citing authors

#	Article	IF	Citations
1	Small directional treadmill perturbations induce differential gait stability adaptation. Journal of Neurophysiology, 2022, 127, 38-55.	1.8	12
2	Step-to-step variability indicates disruption to balance control when linking the arms and legs during treadmill walking. PLoS ONE, 2022, 17, e0265750.	2.5	0
3	Speed-related but not detrended gait variability increases with more sensitive self-paced treadmill controllers at multiple slopes. PLoS ONE, 2021, 16, e0251229.	2.5	9
4	Differential Theta-Band Signatures of the Anterior Cingulate and Motor Cortices During Seated Locomotor Perturbations. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 468-477.	4.9	7
5	Shifting Maladaptive Fall Risk Appraisal in Older Adults through an in-Home Physio-fEedback and Exercise pRogram (PEER): A Pilot Study. Clinical Gerontologist, 2020, 43, 378-390.	2.2	14
6	Dry Epidermal Electrodes Can Provide Long-Term High Fidelity Electromyography for Limited Dynamic Lower Limb Movements. Sensors, 2020, 20, 4848.	3.8	9
7	Assessing Fall Risk Appraisal Through Combined Physiological and Perceived Fall Risk Measures Using Innovative Technology. Journal of Gerontological Nursing, 2020, 46, 41-47.	0.6	14
8	Classification of EEG Motion Artifact Signals Using Spatial ICA. Emerging Topics in Statistics and Biostatistics, 2020, , 23-35.	0.1	4
9	Assessment of Single Use Dry Epidermal Electrodes for Surface Electromyography Recordings*. , 2019, , .		3
10	Influence of Mismarking Fiducial Locations on EEG Source Estimation*. , 2019, , .		1
11	More Reliable EEG Electrode Digitizing Methods Can Reduce Source Estimation Uncertainty, but Current Methods Already Accurately Identify Brodmann Areas. Frontiers in Neuroscience, 2019, 13, 1159.	2.8	33
12	Highly Stretchable and Wearable Strain Sensor Based on Printable Carbon Nanotube Layers/Polydimethylsiloxane Composites with Adjustable Sensitivity. ACS Applied Materials & Interfaces, 2018, 10, 7371-7380.	8.0	189
13	Electromyography Exposes Heterogeneity in Muscle Co-Contraction following Stroke. Frontiers in Neurology, 2017, 8, 699.	2.4	33
14	Cortical Spectral Activity and Connectivity during Active and Viewed Arm and Leg Movement. Frontiers in Neuroscience, 2016, 10, 91.	2.8	18
15	A Representation of Effort in Decision-Making and Motor Control. Current Biology, 2016, 26, 1929-1934.	3.9	189
16	Independent Component Analysis of Gait-Related Movement Artifact Recorded using EEG Electrodes during Treadmill Walking. Frontiers in Human Neuroscience, 2015, 9, 639.	2.0	105
17	Isolating gait-related movement artifacts in electroencephalography during human walking. Journal of Neural Engineering, 2015, 12, 046022.	3.5	161
18	Older adults learn less, but still reduce metabolic cost, during motor adaptation. Journal of Neurophysiology, 2014, 111, 135-144.	1.8	49

#	Article	IF	Citations
19	Reductions in muscle coactivation and metabolic cost during visuomotor adaptation. Journal of Neurophysiology, 2014, 112, 2264-2274.	1.8	21
20	Reduction of Metabolic Cost during Motor Learning of Arm Reaching Dynamics. Journal of Neuroscience, 2012, 32, 2182-2190.	3.6	144
21	Tradeoff between Stability and Maneuverability during Whole-Body Movements. PLoS ONE, 2011, 6, e21815.	2.5	32
22	Computer simulations of neural mechanisms explaining upper and lower limb excitatory neural coupling. Journal of NeuroEngineering and Rehabilitation, 2010, 7, 59.	4.6	5
23	Upper limb effort does not increase maximal voluntary muscle activation in individuals with incomplete spinal cord injury. Clinical Neurophysiology, 2009, 120, 1741-1749.	1.5	13
24	Upper and Lower Limb Muscle Activation Is Bidirectionally and Ipsilaterally Coupled. Medicine and Science in Sports and Exercise, 2009, 41, 1778-1789.	0.4	54
25	Moving the Arms to Activate the Legs. Exercise and Sport Sciences Reviews, 2006, 34, 113-120.	3.0	123
26	Neural coupling between upper and lower limbs during recumbent stepping. Journal of Applied Physiology, 2004, 97, 1299-1308.	2.5	95