Hsiao-Lung Chan

List of Publications by Year
in descending order

Version: 2024-02-01

41 papers	669 citations	687363 13 h-index	580821 25 g-index
41 all docs	41 docs citations	41 times ranked	830 citing authors

#	Article	IF	Citations
1	Effects of Lower Limb Cycling Training on Different Components of Force and Fatigue in Individuals With Parkinsonâ€™s Disease. Frontiers in Bioengineering and Biotechnology, 2022, 10, 829772.	4.1	0
2	Resistance-induced brain activity changes during cycle ergometer exercises. BMC Sports Science, Medicine and Rehabilitation, 2021, 13, 27.	1.7	6
3	Myoelectric analysis of upper-extremity muscles during robot-assisted bilateral wrist flexion-extension in subjects with poststroke hemiplegia. Clinical Biomechanics, 2021, 87, 105412.	1.2	2
4	Evaluation of Anticipatory Postural Adjustment before Quantified Weight Shiftingâ€”System Development and Reliability Test. Applied Sciences (Switzerland), 2021, 11, 758.	2.5	1
5	Validity of the Polar V800 Monitor for Assessing Heart Rate Variability in Elderly Adults under Mental Stress and Dual Task Conditions. International Journal of Environmental Research and Public Health, 2021, 18, 869.	2.6	9
6	The Effect and Dose-Response of Functional Electrical Stimulation Cycling Training on Spasticity in Individuals With Spinal Cord Injury: A Systematic Review With Meta-Analysis. Frontiers in Physiology, 2021, 12, 756200.	2.8	8
7	Mechanism of Fatigue Induced by Different Cycling Paradigms With Equivalent Dosage. Frontiers in Physiology, 2020, 11, 545.	2.8	5
8	Sleep apnea assessment using declination duration-based global metrics from unobtrusive fiber optic sensors. Physiological Measurement, 2019, 40, 075005.	2.1	7
9	Subthalamic nucleus oscillations correlate with vulnerability to freezing of gait in patients with Parkinson's disease. Neurobiology of Disease, 2019, 132, 104605.	4.4	36
10	Age related changes of the motor excitabilities and central and peripheral muscle strength. Journal of Electromyography and Kinesiology, 2019, 44, 132-138.	1.7	4
11	The Respiratory Fluctuation Index: A global metric of nasal airflow or thoracoabdominal wall movement time series to diagnose obstructive sleep apnea. Biomedical Signal Processing and Control, 2019, 49, 250-262.	5.7	8
12	Left centro-parieto-temporal response to toolâ€“gesture incongruity: an ERP study. Behavioral and Brain Functions, 2018, 14, 6.	3.3	2
13	Esmolol pretreatment attenuates heart rate increase and parasympathetic inhibition during rapid increases in desflurane concentration. Medicine (United States), 2017, 96, e8340.	1.0	4
14	Instantaneous Respiratory Estimation from Thoracic Impedance by Empirical Mode Decomposition. Sensors, 2015, 15, 16372-16387.	3.8	35
15	A Cycling Movement Based System for Real-Time Muscle Fatigue and Cardiac Stress Monitoring and Analysis. PLoS ONE, 2015, 10, e0130798.	2.5	12
16	In Vivo Sodium MRI for Mouse Model of Ischemic Stroke at 7ÂT: Preliminary Results. Journal of Medical and Biological Engineering, 2015, 35, 643-650.	1.8	2
17	Tract-Based Spatial Statistics: Application to Mild Cognitive Impairment. BioMed Research International, 2014, 2014, 1-8.	1.9	9
18	ECG-derived respirations based on phase-space reconstruction of single-lead ECG: Validations over various physical activities based on parallel recordings of ECG, respiration, and body accelerations. , 2014, 2014, 2282-5.		5

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19	A Real-Time Fatigue Monitoring and Analysis System for Lower Extremity Muscles with Cycling Movement. Sensors, 2014, 14, 12410-12424.	3.8	21
20	Integrating physical activity detection in heart rate variability and cardiac arrhythmia analysis. , 2013, , .		0
21	Brain connectivity of patients with Alzheimer's disease by coherence and cross mutual information of electroencephalograms during photic stimulation. Medical Engineering and Physics, 2013, 35, 241-252.	1.7	10
22	QRS detection-free electrocardiogram biometrics in the reconstructed phase space. Pattern Recognition Letters, 2013, 34, 595-602.	4.2	36
23	Partial directed coherence analysis of intracranial neural spikes in epilepsy patients. , 2012, 2012, 5174-7.		1
24	The Removal of Ocular Artifacts from EEG Signals Using Adaptive Filters Based on Ocular Source Components. Annals of Biomedical Engineering, 2010, 38, 3489-3499.	2.5	32
25	Recognition of Ventricular Extrasystoles Over the Reconstructed Phase Space of Electrocardiogram. Annals of Biomedical Engineering, 2010, 38, 813-823.	2.5	8
26	Complex analysis of neuronal spike trains of deep brain nuclei in patients with Parkinson's disease. Brain Research Bulletin, 2010, 81, 534-542.	3.0	10
27	Human identification by quantifying similarity and dissimilarity in electrocardiogram phase space. Pattern Recognition, 2009, 42, 1824-1831.	8.1	123
28	Classification of neuronal spikes over the reconstructed phase space. Journal of Neuroscience Methods, 2008, 168, 203-211.	2.5	17
29	Detection of neuronal spikes using an adaptive threshold based on the maxâ€“min spread sorting method. Journal of Neuroscience Methods, 2008, 172, 112-121.	2.5	29
30	Wavelet-based ECG compression by bit-field preserving and running length encoding. Computer Methods and Programs in Biomedicine, 2008, 90, 1-8.	4.7	25
31	Wireless body area network for physical-activity classification and fall detection. , 2008, , .		7
32	Nonlinear characteristics of heart rate variability during unsupervised and steady physical activities. Physiological Measurement, 2007, 28, 277-286.	2.1	8
33	Coherence Analyses of Event-Related Potentials Using Fourier and Wavelet Transforms. , 2007, , .		0
34	Time-varying Brain Potentials and Interhemispheric Coherences of Anterior and Posterior Regions during Repetitive Unimanual Finger Movements. Sensors, 2007, 7, 960-978.	3.8	3
35	Correlates of the shift in heart rate variability with postures and walking by timeâ€“frequency analysis. Computer Methods and Programs in Biomedicine, 2007, 86, 124-130.	4.7	43
36	Heart Rate Variability Characterization in Daily Physical Activities Using Wavelet Analysis and Multilayer Fuzzy Activity Clustering. IEEE Transactions on Biomedical Engineering, 2006, 53, 133-139.	4.2	25

#	Article	IF	Citations
37	Low-Power Wireless Transmission of Biosignals Using the Slotted ALOHA Mechanism. , 2006, , .		3
38	Time-Frequency Analysis of Heart Rate Variability During Transient Segments. Annals of Biomedical Engineering, 2001, 29, 983-996.	2.5	39
39	Long-term Î²-blocker therapy improves autonomic nervous regulation in advanced congestive heart failure: A longitudinal heart rate variability study. American Heart Journal, 1999, 137, 658-665.	2.7	67
40	Design of a system-on-chip for ECG signal processing. , 0, , .		6
41	An ALOHA-based wireless transmission of physiological signals. , 0, , .		1