

Winnie Jensen

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,015
citations

393982

19
h-index

253896

43
g-index

77
all docs

77
docs citations

77
times ranked

2261
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Modulated TENS on Corticospinal Excitability in Healthy Subjects. <i>Neuroscience</i> , 2022, 485, 53-64.	1.1	9
2	Gamma-band enhancement of functional brain connectivity following transcutaneous electrical nerve stimulation. <i>Journal of Neural Engineering</i> , 2022, 19, 026020.	1.8	7
3	The Use of the Velocity Selective Recording Technique to Reveal the Excitation Properties of the Ulnar Nerve in Pigs. <i>Sensors</i> , 2022, 22, 58.	2.1	6
4	Online Closed-Loop Control Using Tactile Feedback Delivered Through Surface and Subdermal Electrotactile Stimulation. <i>Frontiers in Neuroscience</i> , 2021, 15, 580385.	1.4	0
5	Altered evoked low-frequency connectivity from SI to ACC following nerve injury in rats. <i>Journal of Neural Engineering</i> , 2021, 18, 046063.	1.8	1
6	Short-Term Suppression of Somatosensory Evoked Potentials and Perceived Sensations in Healthy Subjects Following TENS. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2261-2269.	2.5	7
7	The Variability of Psychophysical Parameters Following Surface and Subdermal Stimulation: A Multiday Study in Amputees. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 174-180.	2.7	8
8	Modulation of Corticospinal Excitability by Two Different Somatosensory Stimulation Patterns; A Pilot Study. , 2020, 2020, 3573-3576.		2
9	Ethical Assessment and Reflection in Research and Development of Non-Conformit� Europ�ene Marked Medical Devices. <i>Cambridge Quarterly of Healthcare Ethics</i> , 2020, 29, 592-606.	0.5	0
10	Transcutaneous Electrical Stimulation Influences the Time-Frequency Map of Cortical Activity - A Pilot Study. , 2020, 2020, 3905-3908.		1
11	A Multiday Evaluation of Real-Time Intramuscular EMG Usability with ANN. <i>Sensors</i> , 2020, 20, 3385.	2.1	12
12	Stability of flexible thin-film metallization stimulation electrodes: analysis of explants after first-in-human study and improvement of in vivo performance. <i>Journal of Neural Engineering</i> , 2020, 17, 046006.	1.8	38
13	Nerve Injury Decreases Hyperacute Resting-State Connectivity Between the Anterior Cingulate and Primary Somatosensory Cortex in Anesthetized Rats. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2691-2698.	2.7	3
14	Multiday Evaluation of Techniques for EMG-Based Classification of Hand Motions. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 1526-1534.	3.9	82
15	Modulation of Cortical Activity by Selective Steady-State Somatosensory Stimulation. , 2019, 2019, 421-424.		4
16	On the robustness of real-time myoelectric control investigations: a multiday Fitts� law approach. <i>Journal of Neural Engineering</i> , 2019, 16, 026003.	1.8	20
17	Hybrid and Fast: A Novel in Silico Approach with Reduced Computational Cost to Predict Failures of in Vivo Needle-Based implantations. <i>Biosystems and Biorobotics</i> , 2019, , 127-131.	0.2	0
18	Psychophysical Evaluation of Subdermal Electrical Stimulation in Relation to Prosthesis Sensory Feedback. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 709-715.	2.7	20

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19	The effect of time on EMG classification of hand motions in able-bodied and transradial amputees. <i>Journal of Electromyography and Kinesiology</i> , 2018, 40, 72-80.	0.7	43
20	Phantom somatosensory evoked potentials following selective intraneural electrical stimulation in two amputees. <i>Clinical Neurophysiology</i> , 2018, 129, 1117-1120.	0.7	35
21	A New Rat Model of Seizures Suitable for Screening Antiepileptic Electrical Stimulation Therapies. <i>Artificial Organs</i> , 2018, 42, 94-99.	1.0	1
22	Features of Referred Sensation Areas for Artificially Generated Sensory Feedback - A Case Study. , 2018, 2018, 3533-3536.		5
23	Patient care for postamputation pain and the complexity of therapies: living experiences. <i>Pain Management</i> , 2018, 8, 441-453.	0.7	6
24	Natural Sensory Feedback for Phantom Limb Pain Modulation and Therapy. <i>Biosystems and Biorobotics</i> , 2017, , 719-723.	0.2	3
25	Low-Frequency Intracortical Electrical Stimulation Decreases Sensorimotor Cortex Hyperexcitability in the Acute Phase of Ischemic Stroke. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 1287-1296.	2.7	3
26	The Influence of Vagus Nerve and Spinal Cord Stimulation on the Ictal Fast Ripple Activity in a Spike-and-Wave Rat Model of Seizures. <i>Neuromodulation</i> , 2016, 19, 292-298.	0.4	3
27	Simulation of a Real-Time Brain Computer Interface for Detecting a Self-Paced Hitting Task. <i>Neuromodulation</i> , 2016, 19, 804-811.	0.4	2
28	The Effect of Spinal Cord Stimulation on Epileptic Seizures. <i>Neuromodulation</i> , 2016, 19, 154-160.	0.4	8
29	Optimal Vagus Nerve Stimulation Frequency for Suppression of Spike–Wave Seizures in Rats. <i>Artificial Organs</i> , 2016, 40, E120-7.	1.0	15
30	Interactions among biotic and abiotic factors affect the reliability of tungsten microneedles puncturing in vitro and in vivo peripheral nerves: A hybrid computational approach. <i>Materials Science and Engineering C</i> , 2016, 59, 1089-1099.	3.8	13
31	Subchronic Stimulation Performance of Transverse Intrafascicular Multichannel Electrodes in the Median Nerve of the Göttingen Minipig. <i>Artificial Organs</i> , 2015, 39, E36-48.	1.0	12
32	Gender effect on discrimination of location and frequency in surface electrical stimulation. , 2015, 2015, 2071-4.		1
33	Delaying discharge after the stimulus significantly decreases muscle activation thresholds with small impact on the selectivity: an in vivo study using TIME. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 371-379.	1.6	18
34	Biosafety Assessment of an Intra-Neural Electrode (TIME) following Sub-Chronic Implantation in the Median Nerve of Göttingen Minipigs. <i>International Journal of Artificial Organs</i> , 2014, 37, 466-476.	0.7	14
35	Denosing and compression of intracortical signals with a modified MDL criterion. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 429-438.	1.6	2
36	Restoring Natural Sensory Feedback in Real-Time Bidirectional Hand Prostheses. <i>Science Translational Medicine</i> , 2014, 6, 222ra19.	5.8	805

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37	Stimulation Selectivity of the "Thin-Film Longitudinal Intrafascicular Electrode" (tLIFE) and the "Transverse Intrafascicular Multi-Channel Electrode" (TIME) in the Large Nerve Animal Model. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 400-410.	2.7	65
38	Human ability in identification of location and pulse number for electrocutaneous stimulation applied on the forearm. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 97.	2.4	19
39	Novel Approach for Investigation of Neuronal Alterations Following Ischemic Stroke in a Rat Model. Biosystems and Biorobotics, 2014, , 591-599.	0.2	0
40	Effect of Early and Late Rehabilitation Onset in a Chronic Rat Model of Ischemic Stroke" Assessment of Motor Cortex Signaling and Gait Functionality Over Time. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 1006-1015.	2.7	23
41	Surface Versus Untargeted Intramuscular EMG Based Classification of Simultaneous and Dynamically Changing Movements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 992-998.	2.7	34
42	Influence of the feature space on the estimation of hand grasping force from intramuscular EMG. Biomedical Signal Processing and Control, 2013, 8, 1-5.	3.5	48
43	The Effect of Spinal Cord Stimulation on Epileptic Seizures Suppression. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	1
44	Identification of a self-paced hitting task in freely moving rats based on adaptive spike detection from multi-unit M1 cortical signals. Frontiers in Neuroengineering, 2013, 6, 11.	4.8	6
45	Comparison of Stimulation Selectivity in Monopolar and Bipolar Configuration Using the Transversal Intrafascicular Multichannel Electrode (TIME) - Preliminary Results. Biosystems and Biorobotics, 2013, , 79-83.	0.2	1
46	Classification of Simultaneous, Dynamic Motions with Surface EMG. Biosystems and Biorobotics, 2013, , 49-52.	0.2	0
47	Evaluation of sensation evoked by electrocutaneous stimulation on forearm in nondisabled subjects. Journal of Rehabilitation Research and Development, 2012, 49, 297.	1.6	55
48	Development of a neurotechnological system for relieving phantom limb pain using transverse intrafascicular electrodes (TIME). Biomedizinische Technik, 2012, 57, 457-65.	0.9	8
49	The effect of automatic simple thresholding for spike detection from multi-unit recordings on the classification of hitting task in rats. , 2012, , .		0
50	Wavelet denoising and ANN/SVM decoding of a self-paced forelimb movement based on multi-unit intra-cortical signals in rats. , 2012, , .		4
51	In vivo interactions between tungsten microneedles and peripheral nerves. Medical Engineering and Physics, 2012, 34, 747-755.	0.8	15
52	Spike Detection and Clustering With Unsupervised Wavelet Optimization in Extracellular Neural Recordings. IEEE Transactions on Biomedical Engineering, 2012, 59, 2576-2585.	2.5	41
53	Estimation of Grasping Force from Features of Intramuscular EMG Signals with Mirrored Bilateral Training. Annals of Biomedical Engineering, 2012, 40, 648-656.	1.3	64
54	Simultaneous and Proportional Force Estimation in Multiple Degrees of Freedom From Intramuscular EMG. IEEE Transactions on Biomedical Engineering, 2012, 59, 1804-1807.	2.5	57

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55	Impacts of selected stimulation patterns on the perception threshold in electrocutaneous stimulation. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2011, 8, 9.	2.4	41
56	Multichannel Intraneural and Intramuscular Techniques for Multiunit Recording and Use in Active Prostheses. <i>Proceedings of the IEEE</i> , 2010, 98, 432-449.	16.4	46
57	A criterion for signal-based selection of wavelets for denoising intrafascicular nerve recordings. <i>Journal of Neuroscience Methods</i> , 2010, 186, 274-280.	1.3	22
58	Computer- and robot-assisted stereotaxy for high-precision small animal brain exploration / Computer- und robotergestützte Stereotaxie für hochpräzise Exploration des Kleintierhirns. <i>Biomedizinische Technik</i> , 2009, 54, 8-13.	0.9	6
59	Relationship between grasping force and features of single-channel intramuscular EMG signals. <i>Journal of Neuroscience Methods</i> , 2009, 185, 143-150.	1.3	63
60	Variance-based signal conditioning technique: Comparison to a wavelet-based technique to improve spike detection in multiunit intrafascicular recordings. <i>Biomedical Signal Processing and Control</i> , 2009, 4, 118-126.	3.5	6
61	Investigation of occurrence of lateralization in response to an ischemic stroke in rats. , 2008, , .		0
62	Characterization of intra-cortical local field potentials - before, during and after an ischemic event in rats. , 2008, , .		0
63	Translational neural engineering: multiple perspectives on bringing benchtop research into the clinical domain. <i>Journal of Neural Engineering</i> , 2008, 5, P16-P20.	1.8	5
64	A method for monitoring intra-cortical motor cortex responses in an animal model of ischemic stroke. , 2006, 2006, 1201-3.		5
65	In-vivo implant mechanics of flexible, silicon-based ACREO microelectrode arrays in rat cerebral cortex. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 934-940.	2.5	100
66	A Novel High Channel-Count System for Acute Multisite Neuronal Recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 1672-1677.	2.5	18
67	Electrophysiological response dynamics during focal cortical infarction. <i>Journal of Neural Engineering</i> , 2006, 3, L15-L22.	1.8	8
68	On variability and use of rat primary motor cortex responses in behavioral task discrimination. <i>Journal of Neural Engineering</i> , 2006, 3, L7-L13.	1.8	19