

# Winnie Jensen

## List of Publications by Year in descending order

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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	Restoring Natural Sensory Feedback in Real-Time Bidirectional Hand Prostheses. <i>Science Translational Medicine</i> , 2014, 6, 222ra19.	5.8	805
2	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
3	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
4	Stimulation Selectivity of the "Thin-Film Longitudinal Intrafascicular Electrode" (tLIFE) and the "Transverse Intrafascicular Multi-Channel Electrode" (TIME) in the Large Nerve Animal Model. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014, 22, 400-410.	2.7	65
5	Estimation of Grasping Force from Features of Intramuscular EMG Signals with Mirrored Bilateral Training. <i>Annals of Biomedical Engineering</i> , 2012, 40, 648-656.	1.3	64
6	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
7	Simultaneous and Proportional Force Estimation in Multiple Degrees of Freedom From Intramuscular EMG. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1804-1807.	2.5	57
8	Evaluation of sensation evoked by electrocutaneous stimulation on forearm in nondisabled subjects. <i>Journal of Rehabilitation Research and Development</i> , 2012, 49, 297.	1.6	55
9	Influence of the feature space on the estimation of hand grasping force from intramuscular EMG. <i>Biomedical Signal Processing and Control</i> , 2013, 8, 1-5.	3.5	48
10	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
11	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
12	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
13	Spike Detection and Clustering With Unsupervised Wavelet Optimization in Extracellular Neural Recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2576-2585.	2.5	41
14	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
15	Phantom somatosensory evoked potentials following selective intraneural electrical stimulation in two amputees. <i>Clinical Neurophysiology</i> , 2018, 129, 1117-1120.	0.7	35
16	Surface Versus Untargeted Intramuscular EMG Based Classification of Simultaneous and Dynamically Changing Movements. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013, 21, 992-998.	2.7	34
17	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. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013, 21, 1006-1015.	2.7	23
18	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

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19	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
20	On the robustness of real-time myoelectric control investigations: a multiday Fitts's™ law approach. <i>Journal of Neural Engineering</i> , 2019, 16, 026003.	1.8	20
21	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
22	Human ability in identification of location and pulse number for electrocutaneous stimulation applied on the forearm. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 97.	2.4	19
23	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
24	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
25	In vivo interactions between tungsten microneedles and peripheral nerves. <i>Medical Engineering and Physics</i> , 2012, 34, 747-755.	0.8	15
26	Optimal Vagus Nerve Stimulation Frequency for Suppression of Spike-and-Wave Seizures in Rats. <i>Artificial Organs</i> , 2016, 40, E120-7.	1.0	15
27	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
28	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
29	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
30	A Multiday Evaluation of Real-Time Intramuscular EMG Usability with ANN. <i>Sensors</i> , 2020, 20, 3385.	2.1	12
31	Effect of Modulated TENS on Corticospinal Excitability in Healthy Subjects. <i>Neuroscience</i> , 2022, 485, 53-64.	1.1	9
32	Electrophysiological response dynamics during focal cortical infarction. <i>Journal of Neural Engineering</i> , 2006, 3, L15-L22.	1.8	8
33	Development of a neurotechnological system for relieving phantom limb pain using transverse intrafascicular electrodes (TIME). <i>Biomedizinische Technik</i> , 2012, 57, 457-65.	0.9	8
34	The Effect of Spinal Cord Stimulation on Epileptic Seizures. <i>Neuromodulation</i> , 2016, 19, 154-160.	0.4	8
35	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
36	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

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37	Gamma-band enhancement of functional brain connectivity following transcutaneous electrical nerve stimulation. <i>Journal of Neural Engineering</i> , 2022, 19, 026020.	1.8	7
38	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
39	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
40	Identification of a self-paced hitting task in freely moving rats based on adaptive spike detection from multi-unit M1 cortical signals. <i>Frontiers in Neuroengineering</i> , 2013, 6, 11.	4.8	6
41	Patient care for postamputation pain and the complexity of therapies: living experiences. <i>Pain Management</i> , 2018, 8, 441-453.	0.7	6
42	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
43	A method for monitoring intra-cortical motor cortex responses in an animal model of ischemic stroke. , 2006, 2006, 1201-3.		5
44	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
45	Features of Referred Sensation Areas for Artificially Generated Sensory Feedback - A Case Study. , 2018, 2018, 3533-3536.		5
46	Wavelet denoising and ANN/SVM decoding of a self-paced forelimb movement based on multi-unit intra-cortical signals in rats. , 2012, , .		4
47	Modulation of Cortical Activity by Selective Steady-State Somatosensory Stimulation. , 2019, 2019, 421-424.		4
48	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
49	Natural Sensory Feedback for Phantom Limb Pain Modulation and Therapy. <i>Biosystems and Biorobotics</i> , 2017, , 719-723.	0.2	3
50	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
51	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
52	Denoising 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
53	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
54	Modulation of Corticospinal Excitability by Two Different Somatosensory Stimulation Patterns; A Pilot Study. , 2020, 2020, 3573-3576.		2

#	ARTICLE	IF	CITATIONS
55	The Effect of Spinal Cord Stimulation on Epileptic Seizures Suppression. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	1
56	Gender effect on discrimination of location and frequency in surface electrical stimulation. , 2015, 2015, 2071-4.		1
57	A New Rat Model of Seizures Suitable for Screening Antiepileptic Electrical Stimulation Therapies. Artificial Organs, 2018, 42, 94-99.	1.0	1
58	Transcutaneous Electrical Stimulation Influences the Time-Frequency Map of Cortical Activity - A Pilot Study. , 2020, 2020, 3905-3908.		1
59	Altered evoked low-frequency connectivity from SI to ACC following nerve injury in rats. Journal of Neural Engineering, 2021, 18, 046063.	1.8	1
60	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
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	The effect of automatic simple thresholding for spike detection from multi-unit recordings on the classification of hitting task in rats. , 2012, , .		0
64	Ethical Assessment and Reflection in Research and Development of Non-Conformit� Europ�ene Marked Medical Devices. Cambridge Quarterly of Healthcare Ethics, 2020, 29, 592-606.	0.5	0
65	Online Closed-Loop Control Using Tactile Feedback Delivered Through Surface and Subdermal Electrotactile Stimulation. Frontiers in Neuroscience, 2021, 15, 580385.	1.4	0
66	Classification of Simultaneous, Dynamic Motions with Surface EMG. Biosystems and Biorobotics, 2013, , 49-52.	0.2	0
67	Novel Approach for Investigation of Neuronal Alterations Following Ischemic Stroke in a Rat Model. Biosystems and Biorobotics, 2014, , 591-599.	0.2	0
68	Hybrid and Fast: A Novel in Silico Approach with Reduced Computational Cost to Predict Failures of in Vivo Needle-Based implantations. Biosystems and Biorobotics, 2019, , 127-131.	0.2	0