

Cristin G Welle

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,061
citations

623188

14
h-index

552369

26
g-index

37
all docs

37
docs citations

37
times ranked

1621
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue damage thresholds during therapeutic electrical stimulation. Journal of Neural Engineering, 2016, 13, 021001.	1.8	258
2	Motor learning promotes remyelination via new and surviving oligodendrocytes. Nature Neuroscience, 2020, 23, 819-831.	7.1	208
3	Rapid evaluation of the durability of cortical neural implants using accelerated aging with reactive oxygen species. Journal of Neural Engineering, 2015, 12, 026003.	1.8	150
4	Two-Photon Excitation of Potentiometric Probes Enables Optical Recording of Action Potentials From Mammalian Nerve Terminals In Situ. Journal of Neurophysiology, 2008, 99, 1545-1553.	0.9	65
5	Rodent model for assessing the long term safety and performance of peripheral nerve recording electrodes. Journal of Neural Engineering, 2017, 14, 016008.	1.8	40
6	Sensory-driven and spontaneous gamma oscillations engage distinct cortical circuitry. Journal of Neurophysiology, 2016, 115, 1821-1835.	0.9	39
7	Longitudinal vascular dynamics following cranial window and electrode implantation measured with speckle variance optical coherence angiography. Biomedical Optics Express, 2014, 5, 2823.	1.5	29
8	Real-Time Detection and Monitoring of Acute Brain Injury Utilizing Evoked Electroencephalographic Potentials. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1003-1012.	2.7	28
9	Development and characterization of a chronic implant mouse model for vagus nerve stimulation. ELife, 2021, 10, .	2.8	28
10	Image quality metrics for optical coherence angiography. Biomedical Optics Express, 2015, 6, 2435.	1.5	27
11	Characterizing Longitudinal Changes in the Impedance Spectra of In-Vivo Peripheral Nerve Electrodes. Micromachines, 2018, 9, 587.	1.4	26
12	Alterations in neurovascular coupling following acute traumatic brain injury. Neurophotonics, 2017, 4, 1.	1.7	22
13	Automated reactive accelerated aging for rapid <i>in vitro</i> evaluation of neural implant performance. Review of Scientific Instruments, 2018, 89, 094301.	0.6	20
14	Longitudinal neural and vascular structural dynamics produced by chronic microelectrode implantation. Biomaterials, 2020, 238, 119831.	5.7	19
15	Miniature structured illumination microscope for in vivo 3D imaging of brain structures with optical sectioning. Biomedical Optics Express, 2022, 13, 2530.	1.5	15
16	Neural engineering: the process, applications, and its role in the future of medicine. Journal of Neural Engineering, 2019, 16, 063002.	1.8	14
17	Epidermal Electrode Technology for Detecting Ultrasonic Perturbation of Sensory Brain Activity. IEEE Transactions on Biomedical Engineering, 2018, 65, 1272-1280.	2.5	9
18	New Light on Gamma Oscillations. Neuron, 2017, 93, 247-249.	3.8	8

#	ARTICLE	IF	CITATIONS
19	FDA Regulation of Invasive Neural Recording Electrodes: A Daunting Task for Medical Innovators. IEEE Pulse, 2012, 3, 37-41.	0.1	7
20	Acute insertion effects of penetrating cortical microelectrodes imaged with quantitative optical coherence angiography. Neurophotonics, 2016, 3, 1.	1.7	7
21	A rat model for assessing the long-term safety and performance of peripheral nerve electrode arrays. Journal of Neuroscience Methods, 2019, 328, 108437.	1.3	7
22	Innovations in electrical stimulation harness neural plasticity to restore motor function. Bioelectronics in Medicine, 2018, 1, 251-263.	2.0	5
23	Closed-loop automated reaching apparatus (CLARA) for interrogating complex motor behaviors. Journal of Neural Engineering, 2021, 18, 045015.	1.8	5
24	Longitudinal Functional Assessment of Brain Injury Induced by High-Intensity Ultrasound Pulse Sequences. Scientific Reports, 2019, 9, 15518.	1.6	4
25	Optical coherence microscopy of mouse cortical vasculature surrounding implanted electrodes. Proceedings of SPIE, 2014, , .	0.8	2
26	Cleveland neural engineering workshop 2017: strategic evaluation of neural engineering. Bioelectronic Medicine, 2019, 5, 2.	1.0	2
27	Real time imaging of peripheral nerve vasculature using optical coherence angiography. , 2016, , .		1
28	Ray-tracing study on the post-scanner variable beam expansion optics in a two-photon microscopy system. , 2012, , .		0
29	Acute changes associated with electrode insertion measured with optical coherence microscopy. , 2016, , .		0
30	(Invited) Invasive Cortical Microelectrode Array Longitudinal Performance: Temporal Dynamics of Electrical Impedance Spectroscopy and Multiunit Activity. ECS Meeting Abstracts, 2017, , .	0.0	0
31	Rapid Detection and Monitoring of Brain Injury Using Sensory-Evoked Responses. Neuromethods, 2018, , 243-256.	0.2	0