

Yan Tat Wong

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,616
citations

361296
20
h-index

345118
36
g-index

72
all docs

72
docs citations

72
times ranked

1741
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurophysiological considerations for visual implants. <i>Brain Structure and Function</i> , 2022, 227, 1523-1543.	1.2	8
2	Reducing false discoveries in resting-state functional connectivity using short channel correction: an fNIRS study. <i>Neurophotonics</i> , 2022, 9, 015001.	1.7	12
3	A Model for Assessing the Electromagnetic Safety of an Inductively Coupled, Modular Brain-Machine Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 1267-1276.	2.7	2
4	Intracortical current steering shifts the location of evoked neural activity. <i>Journal of Neural Engineering</i> , 2022, 19, 035003.	1.8	6
5	Decoding Field Potentials. , 2022, , 1158-1160.		0
6	Modeling behaviorally relevant neural dynamics enabled by preferential subspace identification. <i>Nature Neuroscience</i> , 2021, 24, 140-149.	7.1	77
7	Motor neuroprosthesis implanted with neurointerventional surgery improves capacity for activities of daily living tasks in severe paralysis: first in-human experience. <i>Journal of NeuroInterventional Surgery</i> , 2021, 13, 102-108.	2.0	106
8	Spectral features of cortical auditory evoked potentials inform hearing threshold and intensity percepts in acoustic and electric hearing. <i>Journal of Neural Engineering</i> , 2021, 18, 046078.	1.8	1
9	Microstimulation-evoked neural responses in visual cortex are depth dependent. <i>Brain Stimulation</i> , 2021, 14, 741-750.	0.7	17
10	Neuron-specific responses to acetylcholine within the spinal dorsal horn circuits of rodent and primate. <i>Neuropharmacology</i> , 2021, 198, 108755.	2.0	1
11	Multiscale low-dimensional motor cortical state dynamics predict naturalistic reach-and-grasp behavior. <i>Nature Communications</i> , 2021, 12, 607.	5.8	44
12	State-of-the-Art Wearable Sensors and Possibilities for Radar in Fall Prevention. <i>Sensors</i> , 2021, 21, 6836.	2.1	9
13	Filling in the Visual Gaps: Shifting Cortical Activity using Current Steering. , 2021, 2021, 5733-5736.		1
14	Wide dipole antennas for wireless powering of miniaturised bioelectronic devices. <i>Sensing and Bio-Sensing Research</i> , 2020, 27, 100311.	2.2	4
15	Local field potential phase modulates neural responses to intracortical electrical stimulation. , 2020, 2020, 3521-3524.		3
16	Distinct Neural Correlates Underlie Inhibitory Mechanisms of Motor Inhibition and Motor Imagery Restraint. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 77.	1.0	4
17	Tissue response to a chronically implantable wireless, intracortical visual prosthesis (Gennaris) Tj ETQq1 1 0.784314 ggBT /Overlock 10 T	1.8	14
18	Excitatory/Inhibitory Responses Shape Coherent Neuronal Dynamics Driven by Optogenetic Stimulation in the Primate Brain. <i>Journal of Neuroscience</i> , 2020, 40, 2056-2068.	1.7	12

#	ARTICLE	IF	CITATIONS
19	Visual-Motor Integration in the Primate Brain. , 2020, , 532-548.		1
20	Neural Stimulation with an Endovascular Brain-Machine Interface. , 2019, , .		6
21	Evaluation of a minimally invasive endovascular neural interface for decoding motor activity. , 2019, , .		4
22	Mixed Spatial and Movement Representations in the Primate Posterior Parietal Cortex. <i>Frontiers in Neural Circuits</i> , 2019, 13, 15.	1.4	31
23	Sparse model-based estimation of functional dependence in high-dimensional field and spike multiscale networks. <i>Journal of Neural Engineering</i> , 2019, 16, 056022.	1.8	24
24	Fully objective hearing threshold estimation in cochlear implant users using phase-locking value growth functions. <i>Hearing Research</i> , 2019, 377, 24-33.	0.9	7
25	CMOS stimulating chips capable of wirelessly driving 473 electrodes for a cortical vision prosthesis. <i>Journal of Neural Engineering</i> , 2019, 16, 026025.	1.8	18
26	Obstacle detection with MIMO 60 GHz radar for fall prevention. , 2019, , .		1
27	Multiscale modeling and decoding algorithms for spike-field activity. <i>Journal of Neural Engineering</i> , 2019, 16, 016018.	1.8	22
28	Spatially dynamic recurrent information flow across long-range dorsal motor network encodes selective motor goals. <i>Human Brain Mapping</i> , 2018, 39, 2635-2650.	1.9	9
29	7T-fMRI: Faster temporal resolution yields optimal BOLD sensitivity for functional network imaging specifically at high spatial resolution. <i>NeuroImage</i> , 2018, 164, 214-229.	2.1	27
30	Focal stimulation of the sheep motor cortex with a chronically implanted minimally invasive electrode array mounted on an endovascular stent. <i>Nature Biomedical Engineering</i> , 2018, 2, 907-914.	11.6	77
31	Feasibility of identifying the ideal locations for motor intention decoding using unimodal and multimodal classification at 7T-fMRI. <i>Scientific Reports</i> , 2018, 8, 15556.	1.6	4
32	Cortical auditory evoked potential time-frequency growth functions for fully objective hearing threshold estimation. <i>Hearing Research</i> , 2018, 370, 74-83.	0.9	10
33	Signal quality of simultaneously recorded endovascular, subdural and epidural signals are comparable. <i>Scientific Reports</i> , 2018, 8, 8427.	1.6	31
34	Feasibility of Nitrogen Doped Ultrananocrystalline Diamond Microelectrodes for Electrophysiological Recording From Neural Tissue. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 85.	2.0	8
35	The ovine motor cortex: A review of functional mapping and cytoarchitecture. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 80, 306-315.	2.9	23
36	Diamond Devices for High Acuity Prosthetic Vision. <i>Advanced Biology</i> , 2017, 1, e1600003.	3.0	35

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37	Prediction of cortical responses to simultaneous electrical stimulation of the retina. Journal of Neural Engineering, 2017, 14, 016006.	1.8	18
38	Multiscale decoding for reliable brain-machine interface performance over time. , 2017, 2017, 197-200.		4
39	Towards more efficient objective tests of hearing thresholds: Phase based detection of cortical auditory responses. , 2017, , .		0
40	Neurobionics and the brainâ€“computer interface: current applications and future horizons. Medical Journal of Australia, 2017, 206, 363-368.	0.8	52
41	Neural Responses to Multielectrode Stimulation of Healthy and Degenerate Retina. , 2017, 58, 3770.		21
42	Suitability of nitinol electrodes in neural prostheses such as endovascular neural interfaces. , 2016, 2016, 4463-4466.		2
43	Spectral distribution of local field potential responses to electrical stimulation of the retina. Journal of Neural Engineering, 2016, 13, 036003.	1.8	15
44	Temporal coding of reward-guided choice in the posterior parietal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13492-13497.	3.3	35
45	Minimally invasive endovascular stent-electrode array for high-fidelity, chronic recordings of cortical neural activity. Nature Biotechnology, 2016, 34, 320-327.	9.4	210
46	Coherent neuronal ensembles are rapidly recruited when making a look-reach decision. Nature Neuroscience, 2016, 19, 327-334.	7.1	88
47	A training platform for many-dimensional prosthetic devices using a virtual reality environment. Journal of Neuroscience Methods, 2015, 244, 68-77.	1.3	29
48	Decoding Field Potentials. , 2015, , 965-968.		0
49	Decoding Field Potentials. , 2014, , 1-4.		0
50	Utilizing movement synergies to improve decoding performance for a brain machine interface. , 2013, 2013, 289-92.		16
51	Development of a closed-loop feedback system for real-time control of a high-dimensional Brain Machine Interface. , 2012, 2012, 4567-70.		1
52	Decoding arm and hand movements across layers of the macaque frontal cortices. , 2012, 2012, 1757-60.		3
53	Optimizing recording depth to decode movement goals from cortical field potentials. , 2011, , .		1
54	The tracking of reaches in three-dimensions. , 2011, 2011, 5440-3.		0

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55	Competition for Visual Selection in the Oculomotor System. Journal of Neuroscience, 2011, 31, 9298-9306.	1.7	29
56	Optimizing the Decoding of Movement Goals from Local Field Potentials in Macaque Cortex. Journal of Neuroscience, 2011, 31, 18412-18422.	1.7	100
57	A CMOS retinal neurostimulator capable of focussed, simultaneous stimulation. Journal of Neural Engineering, 2009, 6, 035006.	1.8	44
58	Focal activation of the feline retina via a suprachoroidal electrode array. Vision Research, 2009, 49, 825-833.	0.7	152
59	Implant electronics for intraocular epiretinal neuro-stimulators. , 2008, , .		9
60	Efficacy of supra-choroidal, bipolar, electrical stimulation in a vision prosthesis. , 2008, 2008, 1789-92.		7
61	Optical Imaging of Electrically Evoked Visual Signals in Cats: II. ICA "Harmonic Filtering" Noise Reduction. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3380-3.	0.5	4
62	Optical Imaging of Electrically Evoked Visual Signals in Cats: I. Responses to Corneal and Intravitreal Electrical Stimulation. , 2007, 2007, 1635-8.		3
63	Retinal Neurostimulator for a Multifocal Vision Prosthesis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 425-434.	2.7	75
64	Microelectronic Retinal Prosthesis: I. A Neurostimulator for the Concurrent Activation of Multiple Electrodes. , 2006, 2006, 4647-50.		4
65	The Design and Testing of an Epi-Retinal Vision Prosthesis Neurostimulator Capable of Concurrent Parallel Stimulation. , 2006, 2006, 4700-9.		10
66	Microelectronic Retinal Prosthesis: II. Use of High-Voltage CMOS in Retinal Neurostimulators. , 2006, 2006, 4651-4.		12
67	An FPGA-Based Vision Prosthesis Prototype: Implementing an Efficient Multiplexing Method for Addressing Electrodes. , 2005, 2005, 5268-71.		6