

Timothy J Gardner

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,055
citations

566801

15
h-index

713013

21
g-index

26
all docs

26
docs citations

26
times ranked

1492
citing authors

#	ARTICLE	IF	CITATIONS
1	A carbon-fiber electrode array for long-term neural recording. <i>Journal of Neural Engineering</i> , 2013, 10, 046016.	1.8	203
2	Freedom and Rules: The Acquisition and Reprogramming of a Bird's Learned Song. <i>Science</i> , 2005, 308, 1046-1049.	6.0	118
3	Sparse Contour Representations of Sound. <i>IEEE Signal Processing Letters</i> , 2012, 19, 684-687.	2.1	88
4	Unstable neurons underlie a stable learned behavior. <i>Nature Neuroscience</i> , 2016, 19, 1665-1671.	7.1	88
5	Long-range Order in Canary Song. <i>PLoS Computational Biology</i> , 2013, 9, e1003052.	1.5	76
6	Thinking Small: Progress on Microscale Neurostimulation Technology. <i>Neuromodulation</i> , 2017, 20, 745-752.	0.4	55
7	Mesoscopic Patterns of Neural Activity Support Songbird Cortical Sequences. <i>PLoS Biology</i> , 2015, 13, e1002158.	2.6	52
8	A micro-scale printable nanoclip for electrical stimulation and recording in small nerves. <i>Journal of Neural Engineering</i> , 2017, 14, 036006.	1.8	52
9	Carbon fiber on polyimide ultra-microelectrodes. <i>Journal of Neural Engineering</i> , 2018, 15, 016010.	1.8	50
10	Fast micron-scale 3D printing with a resonant-scanning two-photon microscope. <i>Additive Manufacturing</i> , 2019, 30, 100887.	1.7	42
11	Hidden neural states underlie canary song syntax. <i>Nature</i> , 2020, 582, 539-544.	13.7	33
12	Automated annotation of birdsong with a neural network that segments spectrograms. <i>ELife</i> , 2022, 11, .	2.8	27
13	An Approach to Time-Frequency Analysis With Ridges of the Continuous Chirplet Transform. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 699-710.	3.2	26
14	Neural Sequence Generation Using Spatiotemporal Patterns of Inhibition. <i>PLoS Computational Biology</i> , 2015, 11, e1004581.	1.5	23
15	Amorphous Silicon Carbide Platform for Next Generation Penetrating Neural Interface Designs. <i>Micromachines</i> , 2018, 9, 480.	1.4	22
16	Printable microscale interfaces for long-term peripheral nerve mapping and precision control. <i>Nature Communications</i> , 2020, 11, 4191.	5.8	22
17	Transformation of temporal sequences in the zebra finch auditory system. <i>ELife</i> , 2016, 5, .	2.8	21
18	Neural dynamics underlying birdsong practice and performance. <i>Nature</i> , 2021, 599, 635-639.	13.7	21

#	ARTICLE	IF	CITATIONS
19	Effect of oxidation on intrinsic residual stress in amorphous silicon carbide films. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1654-1661.	1.6	14
20	A fast and accurate zebra finch syllable detector. PLoS ONE, 2017, 12, e0181992.	1.1	10
21	Extracting individual neural activity recorded through splayed optical microfibers. Neurophotonics, 2019, 5, 1.	1.7	2