

Alan D Dorval

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,709
citations

393982

19
h-index

433756

31
g-index

34
all docs

34
docs citations

34
times ranked

1626
citing authors

#	ARTICLE	IF	CITATIONS
1	Patient-specific structural connectivity informs outcomes of responsive neurostimulation for temporal lobe epilepsy. <i>Epilepsia</i> , 2022, 63, 2037-2055.	2.6	16
2	Computational investigation of the impact of deep brain stimulation contact size and shape on neural selectivity. <i>Journal of Neural Engineering</i> , 2021, , .	1.8	3
3	Validating Patient-Specific Finite Element Models of Direct Electro cortical Stimulation. <i>Frontiers in Neuroscience</i> , 2021, 15, 691701.	1.4	6
4	Parkinsonism and subthalamic deep brain stimulation dysregulate behavioral motivation in a rodent model. <i>Brain Research</i> , 2020, 1736, 146776.	1.1	10
5	Neural selectivity, efficiency, and dose equivalence in deep brain stimulation through pulse width tuning and segmented electrodes. <i>Brain Stimulation</i> , 2020, 13, 1040-1050.	0.7	43
6	Evaluation of methodologies for computing the deep brain stimulation volume of tissue activated. <i>Journal of Neural Engineering</i> , 2019, 16, 066024.	1.8	61
7	Prospects for transcranial temporal interference stimulation in humans: A computational study. <i>NeuroImage</i> , 2019, 202, 116124.	2.1	74
8	Deep cerebellar stimulation reduces ataxic motor symptoms in the <i>shaker</i> rat. <i>Annals of Neurology</i> , 2019, 85, 681-690.	2.8	30
9	The $\frac{1}{4}$ DBS: Multiresolution, Directional Deep Brain Stimulation for Improved Targeting of Small Diameter Fibers. <i>Frontiers in Neuroscience</i> , 2019, 13, 1152.	1.4	17
10	Anodic stimulation misunderstood: preferential activation of fiber orientations with anodic waveforms in deep brain stimulation. <i>Journal of Neural Engineering</i> , 2019, 16, 016026.	1.8	81
11	A Sordid Affair: Spike Sorting and Data Reproducibility. <i>Neurosurgery</i> , 2018, 82, N19-N20.	0.6	3
12	Optimized programming algorithm for cylindrical and directional deep brain stimulation electrodes. <i>Journal of Neural Engineering</i> , 2018, 15, 026005.	1.8	104
13	Correlation between cortical beta power and gait speed is suppressed in a parkinsonian model, but restored by therapeutic deep brain stimulation. <i>Neurobiology of Disease</i> , 2018, 117, 137-148.	2.1	7
14	Hard real-time closed-loop electrophysiology with the Real-Time eXperiment Interface (RTXI). <i>PLoS Computational Biology</i> , 2017, 13, e1005430.	1.5	55
15	Deep brain stimulation exacerbates hypokinetic dysarthria in a rat model of Parkinson's disease. <i>Journal of Neuroscience Research</i> , 2016, 94, 128-138.	1.3	7
16	Computational Field Shaping for Deep Brain Stimulation With Thousands of Contacts in a Novel Electrode Geometry. <i>Neuromodulation</i> , 2015, 18, 542-551.	0.4	11
17	Subthalamic deep brain stimulation reduces pathological information transmission to the thalamus in a rat model of parkinsonism. <i>Frontiers in Neural Circuits</i> , 2015, 9, 31.	1.4	31
18	Information in pallidal neurons increases with parkinsonian severity. <i>Parkinsonism and Related Disorders</i> , 2015, 21, 1355-1361.	1.1	12

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19	Deep brain stimulation of the subthalamic nucleus reestablishes neuronal information transmission in the 6-OHDA rat model of parkinsonism. <i>Journal of Neurophysiology</i> , 2014, 111, 1949-1959.	0.9	64
20	Stimulus features underlying reduced tremor suppression with temporally patterned deep brain stimulation. <i>Journal of Neurophysiology</i> , 2012, 107, 364-383.	0.9	93
21	Spike Phase Locking in CA1 Pyramidal Neurons Depends on Background Conductance and Firing Rate. <i>Journal of Neuroscience</i> , 2012, 32, 14374-14388.	1.7	42
22	Estimating Neuronal Information: Logarithmic Binning of Neuronal Inter-Spike Intervals. <i>Entropy</i> , 2011, 13, 485-501.	1.1	15
23	Deep Brain Stimulation Alleviates Parkinsonian Bradykinesia by Regularizing Pallidal Activity. <i>Journal of Neurophysiology</i> , 2010, 104, 911-921.	0.9	150
24	Deep brain stimulation that abolishes parkinsonian activity in basal ganglia improves thalamic relay fidelity in a computational circuit. , 2009, 2009, 4230-3.		15
25	Probability distributions of the logarithm of inter-spike intervals yield accurate entropy estimates from small datasets. <i>Journal of Neuroscience Methods</i> , 2008, 173, 129-139.	1.3	47
26	Deep Brain Stimulation Reduces Neuronal Entropy in the MPTP-Primate Model of Parkinson's Disease. <i>Journal of Neurophysiology</i> , 2008, 100, 2807-2818.	0.9	145
27	Tremor varies as a function of the temporal regularity of deep brain stimulation. <i>NeuroReport</i> , 2008, 19, 599-602.	0.6	60
28	Contributions of I _h to feature selectivity in layer II stellate cells of the entorhinal cortex. <i>Journal of Computational Neuroscience</i> , 2007, 22, 161-171.	0.6	37
29	The Rhythmic Consequences of Ion Channel Stochasticity. <i>Neuroscientist</i> , 2006, 12, 442-448.	2.6	12
30	Synchronization in Hybrid Neuronal Networks of the Hippocampal Formation. <i>Journal of Neurophysiology</i> , 2005, 93, 1197-1208.	0.9	188
31	Channel Noise is Essential for Perithreshold Oscillations in Entorhinal Stellate Neurons. <i>Journal of Neuroscience</i> , 2005, 25, 10025-10028.	1.7	121
32	Real-Time Linux Dynamic Clamp: A Fast and Flexible Way to Construct Virtual Ion Channels in Living Cells. <i>Annals of Biomedical Engineering</i> , 2001, 29, 897-907.	1.3	144