

David A Borton

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

1,372
citations

14
h-index

37
g-index

56
ext. papers

1,871
ext. citations

8.4
avg, IF

4.34
L-index

#	Paper	IF	Citations
42	A brain-spine interface alleviating gait deficits after spinal cord injury in primates. <i>Nature</i> , 2016 , 539, 284-288	50.4	328
41	An implantable wireless neural interface for recording cortical circuit dynamics in moving primates. <i>Journal of Neural Engineering</i> , 2013 , 10, 026010	5	215
40	Wireless neurosensor for full-spectrum electrophysiology recordings during free behavior. <i>Neuron</i> , 2014 , 84, 1170-82	13.9	143
39	Personalized neuroprosthetics. <i>Science Translational Medicine</i> , 2013 , 5, 210rv2	17.5	110
38	A 100-channel hermetically sealed implantable device for chronic wireless neurosensing applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2013 , 7, 115-28	5.1	108
37	Listening to Brain Microcircuits for Interfacing With External World-Progress in Wireless Implantable Microelectronic Neuroengineering Devices: Experimental systems are described for electrical recording in the brain using multiple microelectrodes and short range implantable or wearable broadcasting units. <i>Proceedings of the IEEE</i> , 2010 , 98, 375-388	14.3	94
36	Advances in Retinal Prosthetic Research: A Systematic Review of Engineering and Clinical Characteristics of Current Prosthetic Initiatives. <i>Current Eye Research</i> , 2017 , 42, 334-347	2.9	38
35	Corticospinal neuroprostheses to restore locomotion after spinal cord injury. <i>Neuroscience Research</i> , 2014 , 78, 21-9	2.9	38
34	Long-term wireless streaming of neural recordings for circuit discovery and adaptive stimulation in individuals with Parkinson's disease. <i>Nature Biotechnology</i> , 2021 , 39, 1078-1085	44.5	36
33	The Case for Adaptive Neuromodulation to Treat Severe Intractable Mental Disorders. <i>Frontiers in Neuroscience</i> , 2019 , 13, 152	5.1	33
32	Detection of optogenetic stimulation in somatosensory cortex by non-human primates--towards artificial tactile sensation. <i>PLoS ONE</i> , 2014 , 9, e114529	3.7	32
31	An implantable neural sensing microsystem with fiber-optic data transmission and power delivery. <i>Sensors</i> , 2013 , 13, 6014-31	3.8	27
30	Modified toolbox for optogenetics in the nonhuman primate. <i>Neurophotonics</i> , 2015 , 2, 031202	3.9	22
29	Developing Collaborative Platforms to Advance Neurotechnology and Its Translation. <i>Neuron</i> , 2020 , 108, 286-301	13.9	15
28	Decoding task engagement from distributed network electrophysiology in humans. <i>Journal of Neural Engineering</i> , 2019 , 16, 056015	5	14
27	Wireless, high-bandwidth recordings from non-human primate motor cortex using a scalable 16-Ch implantable microsystem. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5531-4	0.9	11
26	Chronic wireless streaming of invasive neural recordings at home for circuit discovery and adaptive stimulation	11	11

25	A 32-channel fully implantable wireless neurosensor for simultaneous recording from two cortical regions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 2300-6</i>	0.9	10
24	A Novel Framework for Network-Targeted Neuropsychiatric Deep Brain Stimulation. <i>Neurosurgery, 2021, 89, E116-E121</i>	3.2	9
23	A 100-channel hermetically sealed implantable device for wireless neurosensing applications 2012,		8
22	Automated Affect Detection in Deep Brain Stimulation for Obsessive-Compulsive Disorder: A Pilot Study 2018, 2018, 40-44		8
21	Pain phenotypes classified by machine learning using electroencephalography features. <i>NeuroImage, 2020, 223, 117256</i>	7.9	7
20	Developing implantable neuroprosthetics: a new model in pig. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 3024-30</i>	0.9	6
19	An engineered home environment for untethered data telemetry from nonhuman primates. <i>Journal of Neuroscience Methods, 2017, 288, 72-81</i>	3	5
18	Micro-Hermetic Packaging Technology for Active Implantable Neural Interfaces 2017,		5
17	Hardware-Software Co-Design for Brain-Computer Interfaces 2020,		5
16	Wireless Neurotechnology for Neural Prostheses 2016, 123-161		5
15	Delivering the Sense of Touch to the Human Brain. <i>Neuron, 2017, 93, 728-730</i>	13.9	4
14	A fully wireless platform for correlating behavior and neural data from an implanted, neural recording device: Demonstration in a freely moving swine model 2013,		4
13	Low-Dimensional Motor Cortex Dynamics Preserve Kinematics Information During Unconstrained Locomotion in Nonhuman Primates. <i>Frontiers in Neuroscience, 2019, 13, 1046</i>	5.1	3
12	Uncovering biomarkers during therapeutic neuromodulation with PARRM: Period-based Artifact Reconstruction and Removal Method. <i>Cell Reports Methods, 2021, 1, 100010-100010</i>		3
11	Long-term ecological assessment of intracranial electrophysiology synchronized to behavioral markers in obsessive-compulsive disorder. <i>Nature Medicine, 2021,</i>	50.5	2
10	Automated and rapid self-report of nociception in transgenic mice. <i>Scientific Reports, 2020, 10, 13215</i>	4.9	2
9	NeuroDAC: An open-source arbitrary biosignal waveform generator. <i>Journal of Neural Engineering, 2020,</i>	5	2
8	In Reply: A Novel Framework for Network-Targeted Neuropsychiatric Deep Brain Stimulation. <i>Neurosurgery, 2021, 89, E283</i>	3.2	2

7	Organic Electronics for Artificial Touch. <i>Trends in Neurosciences</i> , 2018 , 41, 568-570	13.3	1
6	Automated Detection of Enhanced DBS Device Settings 2020 , 2020, 354-356		1
5	Deep Brain Stimulation for Depression Informed by Intracranial Recordings.. <i>Biological Psychiatry</i> , 2021 ,	7.9	1
4	Uncovering biomarkers during therapeutic neuromodulation with PARRM: Period-based Artifact Reconstruction and Removal Method		1
3	Balancing Specialized Versus Flexible Computation in Brain-Computer Interfaces. <i>IEEE Micro</i> , 2021 , 41, 87-94	1.8	1
2	Honeycomb: a template for reproducible psychophysiological tasks for clinic, laboratory, and home use. <i>Revista Brasileira De Psiquiatria</i> , 2021 ,	2.6	1
1	Lipopolysaccharide-induced neuroinflammation disrupts functional connectivity and community structure in primary cortical microtissues. <i>Scientific Reports</i> , 2021 , 11, 22303	4.9	0