David A Borton

List of Publications by Year in Descending Order

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	Long-term ecological assessment of intracranial electrophysiology synchronized to behavioral markers in obsessive-compulsive disorder. *Nature Medicine*, **2021**,	50.5	2
41	Deep Brain Stimulation for Depression Informed by Intracranial Recordings.. *Biological Psychiatry*, **2021**,	7.9	1
40	Lipopolysaccharide-induced neuroinflammation disrupts functional connectivity and community structure in primary cortical microtissues. *Scientific Reports*, **2021**, 11, 22303	4.9	0
39	A Novel Framework for Network-Targeted Neuropsychiatric Deep Brain Stimulation. *Neurosurgery*, **2021**, 89, E116-E121	3.2	9
38	Balancing Specialized Versus Flexible Computation in Brain□omputer Interfaces. *IEEE Micro*, **2021**, 41, 87-94	1.8	1
37	Long-term wireless streaming of neural recordings for circuit discovery and adaptive stimulation in individuals with Parkinsons disease. *Nature Biotechnology*, **2021**, 39, 1078-1085	44.5	36
36	Uncovering biomarkers during therapeutic neuromodulation with PARRM: Period-based Artifact Reconstruction and Removal Method. *Cell Reports Methods*, **2021**, 1, 100010-100010		3
35	Honeycomb: a template for reproducible psychophysiological tasks for clinic, laboratory, and home use. *Revista Brasileira De Psiquiatria*, **2021**,	2.6	1
34	In Reply: A Novel Framework for Network-Targeted Neuropsychiatric Deep Brain Stimulation. *Neurosurgery*, **2021**, 89, E283	3.2	2
33	Automated Detection of Enhanced DBS Device Settings **2020**, 2020, 354-356		1
32	Pain phenotypes classified by machine learning using electroencephalography features. *NeuroImage*, **2020**, 223, 117256	7.9	7
31	Developing Collaborative Platforms to Advance Neurotechnology and Its Translation. *Neuron*, **2020** , 108, 286-301	13.9	15
30	Automated and rapid self-report of nociception in transgenic mice. *Scientific Reports*, **2020**, 10, 13215	4.9	2
29	Hardware-Software Co-Design for Brain-Computer Interfaces **2020**,		5
28	NeuroDAC: An open-source arbitrary biosignal waveform generator. *Journal of Neural Engineering*, **2020**,	5	2
27	The Case for Adaptive Neuromodulation to Treat Severe Intractable Mental Disorders. *Frontiers in Neuroscience*, **2019**, 13, 152	5.1	33
26	Decoding task engagement from distributed network electrophysiology in humans. *Journal of Neural Engineering*, **2019**, 16, 056015	5	14

25	Low-Dimensional Motor Cortex Dynamics Preserve Kinematics Information During Unconstrained Locomotion in Nonhuman Primates. *Frontiers in Neuroscience*, **2019**, 13, 1046	5.1	3
24	Organic Electronics for Artificial Touch. *Trends in Neurosciences*, **2018**, 41, 568-570	13.3	1
23	Automated Affect Detection in Deep Brain Stimulation for Obsessive-Compulsive Disorder: A Pilot Study **2018**, 2018, 40-44		8
22	Delivering the Sense of Touch to the Human Brain. *Neuron*, **2017**, 93, 728-730	13.9	4
21	Advances in Retinal Prosthetic Research: A Systematic Review of Engineering and Clinical Characteristics of Current Prosthetic Initiatives. *Current Eye Research*, **2017**, 42, 334-347	2.9	38
20	An engineered home environment for untethered data telemetry from nonhuman primates. *Journal of Neuroscience Methods*, **2017**, 288, 72-81	3	5
19	Micro-Hermetic Packaging Technology for Active Implantable Neural Interfaces **2017**,		5
18	A brain-spine interface alleviating gait deficits after spinal cord injury in primates. *Nature*, **2016**, 539, 284-288	50.4	328
17	Wireless Neurotechnology for Neural Prostheses **2016**, 123-161		5
16	Modified toolbox for optogenetics in the nonhuman primate. *Neurophotonics*, **2015**, 2, 031202	3.9	22
15	Corticospinal neuroprostheses to restore locomotion after spinal cord injury. *Neuroscience Research*, **2014**, 78, 21-9	2.9	38
14	Detection of optogenetic stimulation in somatosensory cortex by non-human primates--towards artificial tactile sensation. *PLoS ONE*, **2014**, 9, e114529	3.7	32
13	Wireless neurosensor for full-spectrum electrophysiology recordings during free behavior. *Neuron*, **2014**, 84, 1170-82	13.9	143
12	Personalized neuroprosthetics. *Science Translational Medicine*, **2013**, 5, 210rv2	17.5	110
11	An implantable wireless neural interface for recording cortical circuit dynamics in moving primates. *Journal of Neural Engineering*, **2013**, 10, 026010	5	215
10	An implantable neural sensing microsystem with fiber-optic data transmission and power delivery. *Sensors*, **2013**, 13, 6014-31	3.8	27
9	A 100-channel hermetically sealed implantable device for chronic wireless neurosensing applications. *IEEE Transactions on Biomedical Circuits and Systems*, **2013**, 7, 115-28	5.1	108
8	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

7	A 100-channel hermetically sealed implantable device for wireless neurosensing applications **2012**,		8
6	Developing implantable neuroprosthetics: a new model in pig. *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	0.9	6
5	A 32-channel fully implantable wireless neurosensor for simultaneous recording from two cortical regions. *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	0.9	10
4	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	14.3	94
3	Wireless, high-bandwidth recordings from non-human primate motor cortex using a scalable 16-Ch implantable microsystem. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 5531-4	0.9	11
2	Chronic wireless streaming of invasive neural recordings at home for circuit discovery and adaptive stimulation		11
1	Uncovering biomarkers during therapeutic neuromodulation with PARRM: Period-based Artifact Reconstruction and Removal Method		1