

Tim M Bruns

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

970
citations

586496

16
h-index

563245

28
g-index

55
all docs

55
docs citations

55
times ranked

1179
citing authors

#	ARTICLE	IF	CITATIONS
1	Tibial nerve stimulation increases vaginal blood perfusion and bone mineral density and yield load in ovariectomized rat menopause model. <i>International Urogynecology Journal</i> , 2022, 33, 3543-3553.	0.7	6
2	Closed-loop sacral neuromodulation for bladder function using dorsal root ganglia sensory feedback in an anesthetized feline model. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 1527-1540.	1.6	5
3	Ultraflexible and Stretchable Intrafascicular Peripheral Nerve Recording Device with Axon- ϵ Dimension, Cuff- ϵ Less Microneedle Electrode Array. <i>Small</i> , 2022, 18, e2200311.	5.2	12
4	The Effect of Clinically Controllable Factors on Neural Activation During Dorsal Root Ganglion Stimulation. <i>Neuromodulation</i> , 2021, 24, 655-671.	0.4	11
5	Sharpened and Mechanically Durable Carbon Fiber Electrode Arrays for Neural Recording. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 993-1003.	2.7	17
6	Bladder pressure encoding by sacral dorsal root ganglion fibres: implications for decoding. <i>Journal of Neural Engineering</i> , 2021, 18, 016014.	1.8	2
7	High-density neural recordings from feline sacral dorsal root ganglia with thin-film array. <i>Journal of Neural Engineering</i> , 2021, 18, 046005.	1.8	7
8	Spatial models of cell distribution in human lumbar dorsal root ganglia. <i>Journal of Comparative Neurology</i> , 2020, 528, 1644-1659.	0.9	17
9	Multi-channel intraneural vagus nerve recordings with a novel high-density carbon fiber microelectrode array. <i>Scientific Reports</i> , 2020, 10, 15501.	1.6	38
10	Anesthetic agents affect urodynamic parameters and anesthetic depth at doses necessary to facilitate preclinical testing in felines. <i>Scientific Reports</i> , 2020, 10, 11401.	1.6	10
11	The rodent vaginal microbiome across the estrous cycle and the effect of genital nerve electrical stimulation. <i>PLoS ONE</i> , 2020, 15, e0230170.	1.1	12
12	Novel diamond shuttle to deliver flexible neural probe with reduced tissue compression. <i>Microsystems and Nanoengineering</i> , 2020, 6, 37.	3.4	37
13	Microneedle Penetrating Array with Axon-Sized Dimensions for Cuff-less Peripheral Nerve Interfacing. , 2019, , .		4
14	Ultracompliant Carbon Nanotube Direct Bladder Device. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900477.	3.9	18
15	Behavioral Monitoring and Neuromodulation of Feline Voiding Function. , 2019, , .		4
16	Real-Time Bladder Pressure Estimation for Closed-Loop Control in a Detrusor Overactivity Model. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1209-1216.	2.7	24
17	Dorsal root ganglion stimulation for chronic pain modulates A β -fiber activity but not C-fiber activity: A computational modeling study. <i>Clinical Neurophysiology</i> , 2019, 130, 941-951.	0.7	37
18	Recording single- and multi-unit neuronal action potentials from the surface of the dorsal root ganglion. <i>Scientific Reports</i> , 2019, 9, 2786.	1.6	22

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19	Tibial Nerve Stimulation to Drive Genital Sexual Arousal in an Anesthetized Female Rat. <i>Journal of Sexual Medicine</i> , 2018, 15, 296-303.	0.3	14
20	Evaluation of Decoding Algorithms for Estimating Bladder Pressure from Dorsal Root Ganglia Neural Recordings. <i>Annals of Biomedical Engineering</i> , 2018, 46, 233-246.	1.3	22
21	Flexible microelectrode array for interfacing with the surface of neural ganglia. <i>Journal of Neural Engineering</i> , 2018, 15, 036027.	1.8	28
22	Transcutaneous Electrical Nerve Stimulation to Improve Female Sexual Dysfunction Symptoms: A Pilot Study. <i>Neuromodulation</i> , 2018, 21, 707-713.	0.4	16
23	Electrical stimulation of renal nerves for modulating urine glucose excretion in rats. <i>Bioelectronic Medicine</i> , 2018, 4, 7.	1.0	5
24	Chronic monitoring of lower urinary tract activity via a sacral dorsal root ganglia interface. <i>Journal of Neural Engineering</i> , 2017, 14, 036027.	1.8	32
25	Time-Frequency Analysis of Increases in Vaginal Blood Perfusion Elicited by Long-Duration Pudendal Neuromodulation in Anesthetized Rats. <i>Neuromodulation</i> , 2017, 20, 807-815.	0.4	14
26	Quantitative models of feline lumbosacral dorsal root ganglia neuronal cell density. <i>Journal of Neuroscience Methods</i> , 2017, 290, 116-124.	1.3	19
27	Comparative evaluation of physical characteristics of different inflatable penile prostheses. <i>Scandinavian Journal of Urology</i> , 2017, 51, 420-425.	0.6	12
28	Hysteretic behavior of bladder afferent neurons in response to changes in bladder pressure. <i>BMC Neuroscience</i> , 2016, 17, 57.	0.8	11
29	Microstimulation of afferents in the sacral dorsal root ganglia can evoke reflex bladder activity. <i>Neurourology and Urodynamics</i> , 2015, 34, 65-71.	0.8	27
30	Real-time control of hind limb functional electrical stimulation using feedback from dorsal root ganglia recordings. <i>Journal of Neural Engineering</i> , 2013, 10, 026020.	1.8	54
31	Neuroprosthetic technology for individuals with spinal cord injury. <i>Journal of Spinal Cord Medicine</i> , 2013, 36, 258-272.	0.7	64
32	Functional priorities, assistive technology, and brain-computer interfaces after spinal cord injury. <i>Journal of Rehabilitation Research and Development</i> , 2013, 50, 145.	1.6	197
33	Estimating bladder pressure from sacral dorsal root ganglia recordings. , 2011, 2011, 4239-42.		20
34	Multielectrode array recordings of bladder and perineal primary afferent activity from the sacral dorsal root ganglia. <i>Journal of Neural Engineering</i> , 2011, 8, 056010.	1.8	39
35	Online feedback control of functional electrical stimulation using dorsal root ganglia recordings. , 2011, 2011, 7246-9.		5
36	Single- and multi-unit activity recorded from the surface of the dorsal root ganglia with non-penetrating electrode arrays. , 2011, 2011, 6713-6.		12

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37	Effects of spatial and temporal parameters of primary afferent microstimulation on neural responses evoked in primary somatosensory cortex of an anesthetized cat. , 2011, 2011, 7533-6.		5
38	Intraurethral stimulation for reflex bladder activation depends on stimulation pattern and location. Neurourology and Urodynamics, 2009, 28, 561-566.	0.8	16
39	Bursting stimulation of proximal urethral afferents improves bladder pressures and voiding. Journal of Neural Engineering, 2009, 6, 066006.	1.8	25
40	Variable Patterned Pudendal Nerve Stimuli Improves Reflex Bladder Activation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 140-148.	2.7	27
41	Reflex bladder activation via pudendal nerve and intraurethral stimulation depends on stimulation pattern and location. , 2008, 2008, 2760-3.		2