Niloy Bhadra

List of Publications by Year
in descending order

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56	2,230	218662	265191
papers	citations	26 h-index	42 g-index

57	57	57	1099
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Scalable and reversible axonal neuromodulation of the sympathetic chain for cardiac control. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H105-H115.	3.2	10
2	Evaluation of Activated Carbon and Platinum Black as High-Capacitance Materials for Platinum Electrodes. Sensors, 2022, 22, 4278.	3.8	3
3	Peripheral Nerve Stimulation Technique, Nerve Block. , 2022, , 2713-2715.		0
4	Combining direct current and kilohertz frequency alternating current to mitigate onset activity during electrical nerve block. Journal of Neural Engineering, 2021, 18, 046010.	3.5	9
5	Fuzzy Logic Control of Heartrate by Electrical Block of Vagus Nerve. , 2021, 2021, 1083-1086.		1
6	Counted cycles method to measure the block inception time of kiloHertz frequency mammalian motor nerve block. Journal of Neuroscience Methods, 2020, 333, 108561.	2.5	6
7	Reduction of the onset response in kilohertz frequency alternating current nerve block with amplitude ramps from non-zero amplitudes. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 80.	4.6	7
8	Accelerated Recovery of DC Blocking Using Repolarization. , 2019, , .		1
9	A Carbon Slurry Separated Interface Nerve Electrode for Electrical Block of Nerve Conduction. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 836-845.	4.9	12
10	Measurement of block thresholds in kiloHertz frequency alternating current peripheral nerve block. Journal of Neuroscience Methods, 2019, 315, 48-54.	2.5	13
11	Reversible conduction block in peripheral nerve using electrical waveforms. Bioelectronics in Medicine, 2018, 1, 39-54.	2.0	18
12	Temporary persistence of conduction block after prolonged kilohertz frequency alternating current on rat sciatic nerve. Journal of Neural Engineering, 2018, 15, 016012.	3.5	31
13	Block of motor nerve conduction via transcutaneous application of direct current. Bioelectronics in Medicine, 2018, 1, 107-116.	2.0	4
14	Fundamentals of Kilohertz Frequency Alternating Current Nerve Conduction Block of the Peripheral Nervous System. , 2018, , 111-120.		2
15	Continuous Direct Current Nerve Block Using Multi Contact High Capacitance Electrodes. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 517-529.	4.9	31
16	Characterization of high capacitance electrodes for the application of direct current electrical nerve block. Medical and Biological Engineering and Computing, 2016, 54, 191-203.	2.8	30
17	Electrodes for electrical conduction block of the peripheral nerve. , 2015, , 215-229.		2
18	Neuroprostheses for spasticity control. , 2015, , 331-339.		5

#	Article	IF	Citations
19	Combined KHFAC + DC nerve block without onset or reduced nerve conductivity after block. Journal of Neural Engineering, 2014, 11, 056012.	3.5	26
20	Alternating current and infrared produce an onset-free reversible nerve block. Neurophotonics, 2014, 1, 011010.	3.3	30
21	Reversible Nerve Conduction Block Using Kilohertz Frequency Alternating Current. Neuromodulation, 2014, 17, 242-255.	0.8	195
22	Direct current contamination of kilohertz frequency alternating current waveforms. Journal of Neuroscience Methods, 2014, 232, 74-83.	2.5	37
23	Peripheral Nerve Stimulation Technique: Nerve Block. , 2014, , 1-3.		0
24	A novel waveform for No-Onset nerve block combining direct current and kilohertz frequency alternating current. , 2013, , .		7
25	Separated interface nerve electrode prevents direct current induced nerve damage. Journal of Neuroscience Methods, 2011, 201, 173-176.	2.5	31
26	Design and Testing of an Advanced Implantable Neuroprosthesis With Myoelectric Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 45-53.	4.9	55
27	Conduction block of whole nerve without onset firing using combined high frequency and direct current. Medical and Biological Engineering and Computing, 2011, 49, 241-251.	2.8	49
28	Electrical conduction block in large nerves: Highâ€frequency current delivery in the nonhuman primate. Muscle and Nerve, 2011, 43, 897-899.	2.2	38
29	Design, fabrication and evaluation of a conforming circumpolar peripheral nerve cuff electrode for acute experimental use. Journal of Neuroscience Methods, 2011, 196, 31-37.	2.5	49
30	Dynamics and sensitivity analysis of high-frequency conduction block. Journal of Neural Engineering, 2011, 8, 065007.	3.5	46
31	Effect of Nerve Cuff Electrode Geometry on Onset Response Firing in High-Frequency Nerve Conduction Block. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 658-665.	4.9	42
32	Conduction block of peripheral nerve using highâ€frequency alternating currents delivered through an intrafascicular electrode. Muscle and Nerve, 2010, 41, 117-119.	2.2	40
33	Nerve conduction block using combined thermoelectric cooling and high frequency electrical stimulation. Journal of Neuroscience Methods, 2010, 193, 72-76.	2.5	27
34	Frequency- and amplitude-transitioned waveforms mitigate the onset response in high-frequency nerve block. Journal of Neural Engineering, 2010, 7, 066003.	3.5	43
35	Reduction of the onset response in high frequency nerve block with amplitude ramps from non-zero amplitudes. , 2009, 2009, 650-3.		12
36	Implantable neuroprosthetic technology. NeuroRehabilitation, 2009, 25, 69-83.	1.3	13

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37	Effect of Bipolar Cuff Electrode Design on Block Thresholds in High-Frequency Electrical Neural Conduction Block. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 469-477.	4.9	42
38	Combined direct current and high frequency nerve block for elimination of the onset response. , 2009, 2009, 197-9.		8
39	Counted cycles method to quantify the onset response in high-frequency peripheral nerve block. , 2009, 2009, 614-7.		15
40	Electrode design for high frequency block: Effect of bipolar separation on block thresholds and the onset response. , 2009, 2009, 654-7.		15
41	Effects of ramped amplitude waveforms on the onset response of high-frequency mammalian nerve block. Journal of Neural Engineering, 2007, 4, 390-398.	3.5	59
42	Simulation of high-frequency sinusoidal electrical block of mammalian myelinated axons. Journal of Computational Neuroscience, 2007, 22, 313-326.	1.0	118
43	High Frequency Mammalian Nerve Conduction Block: Simulations and Experiments. , 2006, 2006, 4971-4.		24
44	High frequency electrical conduction block of the pudendal nerve. Journal of Neural Engineering, 2006, 3, 180-187.	3.5	104
45	Selective block of external anal sphincter activation during electrical stimulation of the sacral anterior roots in a canine model. Neurogastroenterology and Motility, 2005, 17, 721-726.	3.0	4
46	High-frequency electrical conduction block of mammalian peripheral motor nerve. Muscle and Nerve, 2005, 32, 782-790.	2.2	209
47	High-frequency nerve conduction block. , 2004, 2004, 4729-32.		13
48	Nerve conduction block utilising high-frequency alternating current. Medical and Biological Engineering and Computing, 2004, 42, 394-406.	2.8	242
49	Direct current electrical conduction block of peripheral nerve. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2004, 12, 313-324.	4.9	143
50	An advanced neuroprosthesis for restoration of hand and upper arm control using an implantable controller. Journal of Hand Surgery, 2002, 27, 265-276.	1.6	99
51	Implementation of an implantable joint-angle transducer. Journal of Rehabilitation Research and Development, 2002, 39, 411-22.	1.6	10
52	Urethral pressure profiles in the female canine implanted with sacral anterior nerve root electrodes. World Journal of Urology, 2001, 19, 272-277.	2.2	2
53	Implanted stimulators for restoration of function in spinal cord injury. Medical Engineering and Physics, 2001, 23, 19-28.	1.7	82
54	Implantable transducer for two-degree of freedom joint angle sensing. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1999, 7, 349-359.	1.4	49

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55	Peripheral Nerve Stimulation for Restoration of Motor Function. Journal of Clinical Neurophysiology, 1997, 14, 378-393.	1.7	60
56	Extraction forces and tissue changes during explant of CWRU-type intramuscular electrodes from rat gastrocnemius. Annals of Biomedical Engineering, 1997, 25, 1017-1025.	2.5	7