

Matthew A Schiefer

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,935
citations

759233

12
h-index

752698

20
g-index

32
all docs

32
docs citations

32
times ranked

1554
citing authors

#	ARTICLE	IF	CITATIONS
1	A neural interface provides long-term stable natural touch perception. <i>Science Translational Medicine</i> , 2014, 6, 257ra138.	12.4	613
2	The neural basis of perceived intensity in natural and artificial touch. <i>Science Translational Medicine</i> , 2016, 8, 362ra142.	12.4	205
3	Sensory feedback by peripheral nerve stimulation improves task performance in individuals with upper limb loss using a myoelectric prosthesis. <i>Journal of Neural Engineering</i> , 2016, 13, 016001.	3.5	202
4	Home Use of a Neural-connected Sensory Prosthesis Provides the Functional and Psychosocial Experience of Having a Hand Again. <i>Scientific Reports</i> , 2018, 8, 9866.	3.3	168
5	Stability and selectivity of a chronic, multi-contact cuff electrode for sensory stimulation in human amputees. <i>Journal of Neural Engineering</i> , 2015, 12, 026002.	3.5	125
6	A Model of Selective Activation of the Femoral Nerve With a Flat Interface Nerve Electrode for a Lower Extremity Neuroprosthesis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008, 16, 195-204.	4.9	118
7	Fascicular Perineurium Thickness, Size, and Position Affect Model Predictions of Neural Excitation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008, 16, 572-581.	4.9	113
8	Sensory adaptation to electrical stimulation of the somatosensory nerves. <i>Journal of Neural Engineering</i> , 2018, 15, 046002.	3.5	99
9	Artificial tactile and proprioceptive feedback improves performance and confidence on object identification tasks. <i>PLoS ONE</i> , 2018, 13, e0207659.	2.5	91
10	Sites of neuronal excitation by epiretinal electrical stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2006, 14, 5-13.	4.9	65
11	Probabilistic modeling of selective stimulation of the human sciatic nerve with a flat interface nerve electrode. <i>Journal of Computational Neuroscience</i> , 2012, 33, 179-190.	1.0	37
12	Stability and selectivity of a chronic, multi-contact cuff electrode for sensory stimulation in a human amputee. , 2013, , .		17
13	Quantification of clinically applicable stimulation parameters for precision near-organ neuromodulation of human splenic nerves. <i>Communications Biology</i> , 2020, 3, 577.	4.4	14
14	Toward Standardization of Electrophysiology and Computational Tissue Strain in Rodent Intracortical Microelectrode Models. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 416.	4.1	12
15	Temporal Modulation of the Response of Sensory Fibers to Paired-Pulse Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1676-1683.	4.9	11
16	Intraoperative Demonstration of Selective Stimulation of the Common Human Femoral Nerve with a FINE. , 2009, 2009, 610-3.		6
17	Structural mechanisms to produce differential dendritic gains. <i>Brain Research</i> , 2005, 1033, 117-127.	2.2	5
18	Hypoglossal nerve stimulation in a pre-clinical anesthetized rabbit model relevant to OSA. <i>Respiratory Physiology and Neurobiology</i> , 2018, 250, 31-38.	1.6	5

#	ARTICLE	IF	CITATIONS
19	Models of Selective Stimulation with a Flat Interface Nerve Electrode for Standing Neuroprosthetic Systems. , 2006, 2006, 4639-42.		4
20	Hypoglossal nerve stimulation in a rabbit model of obstructive sleep apnea reduces apneas and improves oxygenation. Journal of Applied Physiology, 2020, 129, 442-448.	2.5	4
21	Intraoperative Evaluation of the Spiral Nerve Cuff Electrode for a Standing Neuroprosthesis. , 2007, , .		3
22	Peripheral Nerve Interfaces. , 2015, , 1033-1054.		3
23	Efficient search and fit methods to find nerve stimulation parameters for multi-contact electrodes. , 2011, 2011, 7238-41.		2
24	Probabilistic modeling of selective stimulation of the human sciatic nerve with a flat Interface Nerve Electrode. , 2011, 2011, 4068-71.		2
25	Peripheral Nerve Models. , 2014, , 1-7.		2
26	Sciatic nerve stimulation and its effects on upper airway resistance in the anesthetized rabbit model relevant to sleep apnea. Journal of Applied Physiology, 2018, 125, 763-769.	2.5	2
27	Selective stimulation of human intrinsic laryngeal muscles: Analysis in a mathematical three-dimensional space. Laryngoscope, 2020, 130, 967-973.	2.0	2
28	Models of Selective Stimulation with a Flat Interface Nerve Electrode for Standing Neuroprosthetic Systems. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	2
29	Intraoperative Evaluation of the First Flat Interface Nerve Electrode for a Standing Neuroprosthesis: A Case Report. , 2007, , .		0
30	Computer Models of Peripheral Nerves. , 2015, , 1021-1032.		0
31	Peripheral Nerve Models. , 2022, , 2697-2702.		0