

Chet T Moritz

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,673
citations

257450

24
h-index

265206

42
g-index

50
all docs

50
docs citations

50
times ranked

2969
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct control of paralysed muscles by cortical neurons. <i>Nature</i> , 2008, 456, 639-642.	27.8	545
2	Discharge Rate Variability Influences the Variation in Force Fluctuations Across the Working Range of a Hand Muscle. <i>Journal of Neurophysiology</i> , 2005, 93, 2449-2459.	1.8	360
3	Flexible and stretchable nanowire-coated fibers for optoelectronic probing of spinal cord circuits. <i>Science Advances</i> , 2017, 3, e1600955.	10.3	170
4	Transcutaneous Electrical Spinal Stimulation Promotes Long-Term Recovery of Upper Extremity Function in Chronic Tetraplegia. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1272-1278.	4.9	143
5	Increased Anatomical Specificity of Neuromodulation via Modulated Focused Ultrasound. <i>PLoS ONE</i> , 2014, 9, e86939.	2.5	142
6	Passive dynamics change leg mechanics for an unexpected surface during human hopping. <i>Journal of Applied Physiology</i> , 2004, 97, 1313-1322.	2.5	127
7	Transcutaneous Spinal Cord Stimulation Restores Hand and Arm Function After Spinal Cord Injury. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 310-319.	4.9	97
8	Forelimb Movements and Muscle Responses Evoked by Microstimulation of Cervical Spinal Cord in Sedated Monkeys. <i>Journal of Neurophysiology</i> , 2007, 97, 110-120.	1.8	96
9	Cervical intraspinal microstimulation evokes robust forelimb movements before and after injury. <i>Journal of Neural Engineering</i> , 2013, 10, 036001.	3.5	78
10	Human hopping on very soft elastic surfaces: implications for muscle pre-stretch and elastic energy storage in locomotion. <i>Journal of Experimental Biology</i> , 2005, 208, 939-949.	1.7	73
11	Prolonged muscle vibration increases stretch reflex amplitude, motor unit discharge rate, and force fluctuations in a hand muscle. <i>Journal of Applied Physiology</i> , 2005, 99, 1835-1842.	2.5	63
12	Volitional control of single cortical neurons in a brain-machine interface. <i>Journal of Neural Engineering</i> , 2011, 8, 025017.	3.5	62
13	Robust passive dynamics of the musculoskeletal system compensate for unexpected surface changes during human hopping. <i>Journal of Applied Physiology</i> , 2009, 107, 801-808.	2.5	56
14	Ultra-Capacitive Carbon Neural Probe Allows Simultaneous Long-Term Electrical Stimulations and High-Resolution Neurotransmitter Detection. <i>Scientific Reports</i> , 2018, 8, 6958.	3.3	56
15	Neuromuscular changes for hopping on a range of damped surfaces. <i>Journal of Applied Physiology</i> , 2004, 96, 1996-2004.	2.5	49
16	Therapeutic intraspinal stimulation to generate activity and promote long-term recovery. <i>Frontiers in Neuroscience</i> , 2014, 8, 21.	2.8	44
17	Affective brain-computer interfaces as enabling technology for responsive psychiatric stimulation. <i>Brain-Computer Interfaces</i> , 2014, 1, 126-136.	1.8	42
18	Therapeutic Stimulation for Restoration of Function After Spinal Cord Injury. <i>Physiology</i> , 2017, 32, 391-398.	3.1	42

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19	Preliminary Investigation of an Electromyography-Controlled Video Game as a Home Program for Persons in the Chronic Phase of Stroke Recovery. Archives of Physical Medicine and Rehabilitation, 2014, 95, 1461-1469.	0.9	39
20	Understanding upper extremity home programs and the use of gaming technology for persons after stroke. Disability and Health Journal, 2015, 8, 507-513.	2.8	38
21	A Cervical Hemi-Contusion Spinal Cord Injury Model for the Investigation of Novel Therapeutics Targeting Proximal and Distal Forelimb Functional Recovery. Journal of Neurotrauma, 2015, 32, 1994-2007.	3.4	37
22	Now is the Critical Time for Engineered Neuroplasticity. Neurotherapeutics, 2018, 15, 628-634.	4.4	28
23	Coherence at 16-32 Hz Can Be Caused by Short-Term Synchrony of Motor Units. Journal of Neurophysiology, 2005, 94, 105-118.	1.8	26
24	Human hoppers compensate for simultaneous changes in surface compression and damping. Journal of Biomechanics, 2006, 39, 1030-1038.	2.1	26
25	Intraspinal microstimulation for respiratory muscle activation. Experimental Neurology, 2018, 302, 93-103.	4.1	25
26	New Perspectives on Neuroengineering and Neurotechnologies: NSF-DFG Workshop Report. IEEE Transactions on Biomedical Engineering, 2016, 63, 1354-1367.	4.2	23
27	Glassy carbon microelectrode arrays enable voltage-peak separated simultaneous detection of dopamine and serotonin using fast scan cyclic voltammetry. Analyst, The, 2021, 146, 3955-3970.	3.5	21
28	Multisite Transcutaneous Spinal Stimulation for Walking and Autonomic Recovery in Motor-Incomplete Tetraplegia: A Single-Subject Design. Physical Therapy, 2022, 102, .	2.4	19
29	Brain-Computer-Spinal Interface Restores Upper Limb Function After Spinal Cord Injury. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1233-1242.	4.9	17
30	Simultaneous and independent control of a brain-computer interface and contralateral limb movement. Brain-Computer Interfaces, 2015, 2, 174-185.	1.8	14
31	Neural engineering: the process, applications, and its role in the future of medicine. Journal of Neural Engineering, 2019, 16, 063002.	3.5	14
32	Meeting Proceedings for SCI 2020: Launching a Decade of Disruption in Spinal Cord Injury Research. Journal of Neurotrauma, 2021, 38, 1251-1266.	3.4	14
33	A Robust Encoding Scheme for Delivering Artificial Sensory Information via Direct Brain Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1994-2004.	4.9	13
34	A giant step for spinal cord injury research. Nature Neuroscience, 2018, 21, 1647-1648.	14.8	12
35	Regenerative Rehabilitation: Combining Stem Cell Therapies and Activity-Dependent Stimulation. Pediatric Physical Therapy, 2017, 29, S10-S15.	0.6	10
36	A spring in your step: some is good, more is not always better. Journal of Applied Physiology, 2009, 107, 643-644.	2.5	8

#	ARTICLE	IF	CITATIONS
37	Reconfiguring Motor Circuits for a Joint Manual and BCI Task. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 248-257.	4.9	7
38	'Neurogame Therapy' for Improvement of Movement Coordination after Brain Injury: Developing a Wireless Biosignal Game Therapy System. , 2011, , .		6
39	Automated Center-out Rodent Behavioral Trainer (ACRoBaT), an automated device for training rats to perform a modified center out task. Behavioural Brain Research, 2018, 346, 115-121.	2.2	6
40	A roadmap for advancing neurostimulation approaches for bladder and bowel function after spinal cord injury. Spinal Cord, 2020, 58, 1227-1232.	1.9	5
41	Respiratory resetting elicited by single pulse spinal stimulation. Respiratory Physiology and Neurobiology, 2020, 274, 103339.	1.6	4
42	Graphene on glassy carbon microelectrodes demonstrate long-term structural and functional stability in neurophysiological recording and stimulation. Journal of Neural Engineering, 2021, 18, 056035.	3.5	4
43	Applying best practices from digital control systems to BMI implementation. , 2012, 2012, 1699-702.		3
44	A high-voltage compliant neural stimulator with HF wireless power and UHF backscatter communication. , 2016, , .		3
45	NeuralCLIP: A Modular FPGA-Based Neural Interface for Closed-Loop Operation. , 2019, , .		3
46	Automated lever task with minimum antigravity movement for rats with cervical spinal cord injury. Journal of Neuroscience Methods, 2022, 366, 109433.	2.5	2
47	High Performance Flexible Protocol for Backscattered-Based Neural Implants. , 2019, , .		1
48	An optimal control analysis of motor strategies in a brain-computer interface task. , 2013, , .		0
49	Design of intracortical microstimulation patterns to control the location, intensity, and quality of evoked sensations in human and animal models. , 2021, , 479-506.		0