Simon F Giszter

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9551781/publications.pdf Version: 2024-02-01



SIMON F CISZTED

#	Article	IF	CITATIONS
1	Stimulating the cervical spinal cord – combining clinical, classical and basic motor perspectives on epidural stimulation. Journal of Physiology, 2021, 599, 3431-3432.	2.9	Ο
2	Highly Flexible Precisely Braided Multielectrode Probes and Combinatorics for Future Neuroprostheses. Frontiers in Neuroscience, 2019, 13, 613.	2.8	5
3	Motor primitives are determined in early development and are then robustly conserved into adulthood. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12025-12034.	7.1	47
4	Modularity in the intact and spinal cat: methods, issues and questions for the future. Journal of Physiology, 2019, 597, 13-13.	2.9	1
5	Enhancing neural activity to drive respiratory plasticity following cervical spinal cord injury. Experimental Neurology, 2017, 287, 276-287.	4.1	27
6	Trunk Postural Muscle Timing Is Not Compromised In Low Back Pain Patients Clinically Diagnosed With Movement Coordination Impairments. Motor Control, 2017, 21, 133-157.	0.6	14
7	Teaching Adult Rats Spinalized as Neonates to Walk Using Trunk Robotic Rehabilitation: Elements of Success, Failure, and Dependence. Journal of Neuroscience, 2016, 36, 8341-8355.	3.6	5
8	Spinal primitives and intra-spinal micro-stimulation (ISMS) based prostheses: a neurobiological perspective on the "known unknowns―in ISMS and future prospects. Frontiers in Neuroscience, 2015, 9, 72.	2.8	12
9	Adaptation to elastic loads and BMI robot controls during rat locomotion examined with point-process GLMs. Frontiers in Systems Neuroscience, 2015, 9, 62.	2.5	5
10	Motor primitives—new data and future questions. Current Opinion in Neurobiology, 2015, 33, 156-165.	4.2	167
11	Trunk Robot Rehabilitation Training with Active Stepping Reorganizes and Enriches Trunk Motor Cortex Representations in Spinal Transected Rats. Journal of Neuroscience, 2015, 35, 7174-7189.	3.6	25
12	Plasticity and alterations of trunk motor cortex following spinal cord injury and non-stepping robot and treadmill training. Experimental Neurology, 2014, 256, 57-69.	4.1	29
13	A pelvic implant orthosis in rodents, for spinal cord injury rehabilitation, and for brain machine interface research: Construction, surgical implantation and validation. Journal of Neuroscience Methods, 2014, 222, 199-206.	2.5	7
14	Braided multi-electrode probes: mechanical compliance characteristics and recordings from spinal cords. Journal of Neural Engineering, 2013, 10, 045001.	3.5	34
15	Motor primitives and synergies in the spinal cord and after injury—the current state of play. Annals of the New York Academy of Sciences, 2013, 1279, 114-126.	3.8	50
16	Distinguishing synchronous and time-varying synergies using point process interval statistics: motor primitives in frog and rat. Frontiers in Computational Neuroscience, 2013, 7, 52.	2.1	16
17	Adaptation to a Cortex-Controlled Robot Attached at the Pelvis and Engaged during Locomotion in Rats. Journal of Neuroscience, 2011, 31, 3110-3128.	3.6	37
18	Biomimetic control for redundant and high degree of freedom limb systems: neurobiological modularity. Smart Structures and Systems, 2011, 7, 169-184.	1.9	1

SIMON F GISZTER

#	Article	IF	CITATIONS
19	A Simple Experimentally Based Model Using Proprioceptive Regulation of Motor Primitives Captures Adjusted Trajectory Formation in Spinal Frogs. Journal of Neurophysiology, 2010, 103, 573-590.	1.8	62
20	Spinal cord modularity: evolution, development, and optimization and the possible relevance to low back pain in man. Experimental Brain Research, 2010, 200, 283-306.	1.5	32
21	A Neural Basis for Motor Primitives in the Spinal Cord. Journal of Neuroscience, 2010, 30, 1322-1336.	3.6	236
22	How spinalized rats can walk: biomechanics, cortex, and hindlimb muscle scaling—implications for rehabilitation. Annals of the New York Academy of Sciences, 2010, 1198, 279-293.	3.8	26
23	Trunk control during standing reach: A dynamical system analysis of movement strategies in patients with mechanical low back pain. Gait and Posture, 2009, 29, 370-376.	1.4	84
24	Multiple Types of Movement-Related Information Encoded in Hindlimb/Trunk Cortex in Rats and Potentially Available for Brain–Machine Interface Controls. IEEE Transactions on Biomedical Engineering, 2009, 56, 2712-2716.	4.2	36
25	Spinal Cord Injury: Present and Future Therapeutic Devices and Prostheses. Neurotherapeutics, 2008, 5, 147-162.	4.4	39
26	Coordination strategies for limb forces during weight-bearing locomotion in normal rats, and in rats spinalized as neonates. Experimental Brain Research, 2008, 190, 53-69.	1.5	25
27	Trunk Sensorimotor Cortex Is Essential for Autonomous Weight-Supported Locomotion in Adult Rats Spinalized as P1/P2 Neonates. Journal of Neurophysiology, 2008, 100, 839-851.	1.8	26
28	Individual Premotor Drive Pulses, Not Time-Varying Synergies, Are the Units of Adjustment for Limb Trajectories Constructed in Spinal Cord. Journal of Neuroscience, 2008, 28, 2409-2425.	3.6	85
29	Primitives, premotor drives, and pattern generation: a combined computational and neuroethological perspective. Progress in Brain Research, 2007, 165, 323-346.	1.4	79
30	Motor Strategies Used by Rats Spinalized at Birth to Maintain Stance in Response to Imposed Perturbations. Journal of Neurophysiology, 2007, 97, 2663-2675.	1.8	27
31	Robot Application of Elastic Fields to the Pelvis of the Spinal Transected Rat: a Tool for Detailed Assessment and Rehabilitation. , 2006, 2006, 3684-7.		16
32	Robot Application of Elastic Fields to the Pelvis of the Spinal Transected Rat: a Tool for Detailed Assessment and Rehabilitation. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
33	Towards a Definition of Recovery of Function. Journal of Neurotrauma, 2004, 21, 405-413.	3.4	13
34	Modular Premotor Drives and Unit Bursts as Primitives for Frog Motor Behaviors. Journal of Neuroscience, 2004, 24, 5269-5282.	3.6	175
35	Neurobiological and neurorobotic approaches to control architectures for a humanoid motor system. Robotics and Autonomous Systems, 2001, 37, 219-235.	5.1	21
36	Modeling of dynamic controls in the frog wiping reflex: Force-field level controls. Neurocomputing, 2001, 38-40, 1239-1247.	5.9	11

SIMON F GISZTER

#	Article	IF	CITATIONS
37	Conserved temporal dynamics and vector superposition of primitives in frog wiping reflexes during spontaneous extensor deletions. Neurocomputing, 2000, 32-33, 775-783.	5.9	29
38	Afferent Roles in Hindlimb Wipe-Reflex Trajectories: Free-Limb Kinematics and Motor Patterns. Journal of Neurophysiology, 2000, 83, 1480-1501.	1.8	55
39	Rapid Correction of Aimed Movements by Summation of Force-Field Primitives. Journal of Neuroscience, 2000, 20, 409-426.	3.6	141
40	Direct Agonists for Serotonin Receptors Enhance Locomotor Function in Rats that Received Neural Transplants after Neonatal Spinal Transection. Journal of Neuroscience, 1999, 19, 6213-6224.	3.6	86
41	Pattern Generators and Cortical Maps in Locomotion of Spinal Injured Ratsa. Annals of the New York Academy of Sciences, 1998, 860, 554-555.	3.8	7
42	Fetal Transplants Rescue Axial Muscle Representations in M1 Cortex of Neonatally Transected Rats That Develop Weight Support. Journal of Neurophysiology, 1998, 80, 3021-3030.	1.8	42
43	Fetal Transplants Alter the Development of Function after Spinal Cord Transection in Newborn Rats. Journal of Neuroscience, 1997, 17, 4856-4872.	3.6	100
44	Vector field approximation: a computational paradigm for motor control and learning. Biological Cybernetics, 1992, 67, 491-500.	1.3	180