Leif A Havton

List of Publications by Year
in descending order

72 papers	3,122 citations	257101 24 h-index	168136 53 g-index
75 all docs	75 docs citations	75 times ranked	3934 citing authors

#	Article	IF	Citations
1	High-throughput segmentation of unmyelinated axons by deep learning. Scientific Reports, 2022, 12, 1198.	1.6	7
2	Ultraflexible and Stretchable Intrafascicular Peripheral Nerve Recording Device with Axonâ€Dimension, Cuffâ€Less Microneedle Electrode Array. Small, 2022, 18, e2200311.	5.2	12
3	A shape-adjusted ellipse approach corrects for varied axonal dispersion angles and myelination in primate nerve roots. Scientific Reports, 2021, 11, 3150.	1.6	5
4	Innervation and Neuronal Control of the Mammalian Sinoatrial Node a Comprehensive Atlas. Circulation Research, 2021, 128, 1279-1296.	2.0	64
5	Human organ donor-derived vagus nerve biopsies allow for well-preserved ultrastructure and high-resolution mapping of myelinated and unmyelinated fibers. Scientific Reports, 2021, 11, 23831.	1.6	13
6	Targeted Complement Inhibition at Synapses Prevents Microglial Synaptic Engulfment and Synapse Loss in Demyelinating Disease. Immunity, 2020, 52, 167-182.e7.	6.6	244
7	Sexual dimorphism of detrusor function demonstrated by urodynamic studies in rhesus macaques. Scientific Reports, 2020, 10, 16170.	1.6	2
8	Ketamine-induced neuromuscular reactivity is associated with aging in female rhesus macaques. PLoS ONE, 2020, 15, e0236430.	1.1	6
9	SPARC: A Hybrid Computational Approach to Classify Vagal C Fiber Functions. FASEB Journal, 2020, 34, 1-1.	0.2	1
10	Surgical Replantation of Avulsed Lumbosacral Ventral Roots and Urodynamic Studies in a Rhesus Macaque (Macaca mulatta) Model of Cauda Equina/Conus Medullaris Injury and Repair. Neuromethods, 2019, , 207-220.	0.2	2
11	Noninvasive spinal neuromodulation to map and augment lower urinary tract function in rhesus macaques. Experimental Neurology, 2019, 322, 113033.	2.0	18
12	Chondroitinase improves anatomical and functional outcomes after primate spinal cord injury. Nature Neuroscience, 2019, 22, 1269-1275.	7.1	98
13	Deacetylation of Miro1 by HDAC6 blocks mitochondrial transport and mediates axon growth inhibition. Journal of Cell Biology, 2019, 218, 1871-1890.	2.3	80
14	Self-Assisted Standing Enabled by Non-Invasive Spinal Stimulation after Spinal Cord Injury. Journal of Neurotrauma, 2019, 36, 1435-1450.	1.7	143
15	Restorative effects of human neural stem cell grafts on the primate spinal cord. Nature Medicine, 2018, 24, 484-490.	15.2	236
16	Protective role of the lipid phosphatase Fig4 in the adult nervous system. Human Molecular Genetics, 2018, 27, 2443-2453.	1.4	13
17	Mapping and neuromodulation of lower urinary tract function using spinal cord stimulation in female rats. Experimental Neurology, 2018, 305, 26-32.	2.0	23
18	EMG characteristics of the external anal sphincter guarding reflex and effects of a unilateral ventral root avulsion injury in rhesus macaques (Macaca mulatta). Journal of Neurophysiology, 2018, 120, 2710-2718.	0.9	2

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19	Noninvasive neurophysiological mapping of the lower urinary tract in adult and aging rhesus macaques. Journal of Neurophysiology, 2018, 119, 1521-1527.	0.9	16
20	Generalized convulsive seizures are associated with ketamine anesthesia in a rhesus macaque (Macaca mulatta) undergoing urodynamic studies and transcutaneous spinal cord stimulation. Journal of Medical Primatology, 2017, 46, 359-363.	0.3	2
21	Radiographic and Magnetic Resonance Imaging Identification of Thoracolumbar Spine Variants with Implications for the Positioning of the Conus Medullaris in Rhesus Macaques. Anatomical Record, 2017, 300, 300-308.	0.8	7
22	Plasticity of Select Primary Afferent Projections to the Dorsal Horn after a Lumbosacral Ventral Root Avulsion Injury and Root Replantation in Rats. Frontiers in Neurology, 2017, 8, 291.	1.1	1
23	PI(3,5)P2 biosynthesis regulates oligodendrocyte differentiation by intrinsic and extrinsic mechanisms. ELife, 2016, 5, .	2.8	25
24	A ventral root avulsion injury model for neurogenic underactive bladder studies. Experimental Neurology, 2016, 285, 190-196.	2.0	12
25	Introduction to Special Issue on Bladder Control in Neurological Diseases. Experimental Neurology, 2016, 285, 109.	2.0	0
26	Identification of Select Autonomic and Motor Neurons in the Rat Spinal Cord Using Retrograde Labeling Techniques and Post-embedding Immunogold Detection of Fluorogold in the Electron Microscope. Neuromethods, 2016, , 167-180.	0.2	0
27	The Suitability of Propofol Compared with Urethane for Anesthesia during Urodynamic Studies in Rats. Journal of the American Association for Laboratory Animal Science, 2016, 55, 89-94.	0.6	8
28	Spinal stimulation of the upper lumbar spinal cord modulates urethral sphincter activity in rats after spinal cord injury. American Journal of Physiology - Renal Physiology, 2015, 308, F1032-F1040.	1.3	35
29	Pronounced species divergence in corticospinal tract reorganization and functional recovery after lateralized spinal cord injury favors primates. Science Translational Medicine, 2015, 7, 302ra134.	5.8	148
30	Leveraging biomedical informatics for assessing plasticity and repair in primate spinal cord injury. Brain Research, 2015, 1619, 124-138.	1.1	16
31	Neural Stem Cell Dissemination after Grafting to CNS Injury Sites. Cell, 2014, 156, 388-389.	13.5	35
32	Neural stem cells in models of spinal cord injury. Experimental Neurology, 2014, 261, 494-500.	2.0	13
33	Diminished Schwann Cell Repair Responses Underlie Age-Associated Impaired Axonal Regeneration. Neuron, 2014, 83, 331-343.	3.8	215
34	Serotonergic 5-HT1A receptor agonist (8-OH-DPAT) ameliorates impaired micturition reflexes in a chronic ventral root avulsion model of incomplete cauda equina/conus medullaris injury. Experimental Neurology, 2013, 239, 210-217.	2.0	24
35	Generalized seizure activity in an adult rhesus macaque (Macaca mulatta) during ketamine anesthesia and urodynamic studies. Comparative Medicine, 2013, 63, 445-7.	0.4	13
36	Modulation of the visceromotor reflex by a lumbosacral ventral root avulsion injury and repair in rats. American Journal of Physiology - Renal Physiology, 2012, 303, F641-F647.	1.3	9

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37	The longitudinal spinal cord injury. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2012, 109, 337-354.	1.0	25
38	A Lumbosacral Ventral Root Avulsion Injury and Repair Model for Studies of Neuropathic Pain in Rats. Methods in Molecular Biology, 2012, 851, 185-193.	0.4	3
39	Selective plasticity of primary afferent innervation to the dorsal horn and autonomic nuclei following lumbosacral ventral root avulsion and reimplantation in long term studies. Experimental Neurology, 2012, 233, 758-766.	2.0	11
40	Systemic administration of fluorogold for anatomical preâ€labeling of autonomic and motor neurons in the rat spinal cord compromises urodynamic recordings in acute but not longâ€term studies. Neurourology and Urodynamics, 2012, 31, 162-167.	0.8	2
41	Paraplegia and Spinal Cord Syndromes. , 2012, , 286-292.		5
42	Locomotor Training Maintains Normal Inhibitory Influence on Both Alpha- and Gamma-Motoneurons after Neonatal Spinal Cord Transection. Journal of Neuroscience, 2011, 31, 26-33.	1.7	59
43	Extensive spontaneous plasticity of corticospinal projections after primate spinal cord injury. Nature Neuroscience, 2010, 13, 1505-1510.	7.1	346
44	Deficiency of the E3 ubiquitin ligase TRIM32 in mice leads to a myopathy with a neurogenic component. Human Molecular Genetics, 2009, 18, 1353-1367.	1.4	103
45	Biocompatibility of amphiphilic diblock copolypeptide hydrogels in the central nervous system. Biomaterials, 2009, 30, 2881-2898.	5.7	128
46	Chemotropic guidance facilitates axonal regeneration and synapse formation after spinal cord injury. Nature Neuroscience, 2009, 12, 1106-1113.	7.1	194
47	Retrogradely transported fluorogold accumulates in lysosomes of neurons and is detectable ultrastructurally using post-embedding immuno-gold methods. Journal of Neuroscience Methods, 2009, 184, 42-47.	1.3	16
48	Repair and rehabilitation of plexus and root avulsions in animal models and patients. Current Opinion in Neurology, 2009, 22, 570-574.	1.8	38
49	Minocycline protects motor but not autonomic neurons after cauda equina injury. Experimental Brain Research, 2008, 189, 71-77.	0.7	15
50	Re-established micturition reflexes show differential activation patterns after lumbosacral ventral root avulsion injury and repair in rats. Experimental Neurology, 2008, 212, 291-297.	2.0	16
51	Surgical implantation of avulsed lumbosacral ventral roots promotes restoration of bladder morphology in rats. Experimental Neurology, 2008, 214, 117-124.	2.0	9
52	Differential effects of urethane and isoflurane on external urethral sphincter electromyography and cystometry in rats. American Journal of Physiology - Renal Physiology, 2008, 295, F1248-F1253.	1.3	55
53	Correlation of median forearm conduction velocity with carpal tunnel syndrome severity. Clinical Neurophysiology, 2007, 118, 781-785.	0.7	16
54	Complement activation after lumbosacral ventral root avulsion injury. Neuroscience Letters, 2006, 394, 179-183.	1.0	15

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55	Improved detection of fluorogold-labeled neurons in long-term studies. Journal of Neuroscience Methods, 2006, 152, 156-162.	1.3	23
56	A single re-implanted ventral root exerts neurotropic effects over multiple spinal cord segments in the adult rat. Experimental Brain Research, 2006, 169, 208-217.	0.7	17
57	Glial reactions in a rodent cauda equina injury and repair model. Experimental Brain Research, 2006, 170, 52-60.	0.7	19
58	Ultrastructural synaptic features differ between Î±- and Î³-motoneurons innervating the tibialis anterior muscle in the rat. Journal of Comparative Neurology, 2006, 499, 306-315.	0.9	26
59	Novel repair strategies to restore bladder function following cauda equina/conus medullaris injuries. Progress in Brain Research, 2006, 152, 195-204.	0.9	23
60	Functional Reinnervation of the Rat Lower Urinary Tract after Cauda Equina Injury and Repair. Journal of Neuroscience, 2006, 26, 8672-8679.	1.7	46
61	Titanium mesh implantationâ€"A method to stabilize the spine and protect the spinal cord following a multilevel laminectomy in the adult rat. Journal of Neuroscience Methods, 2005, 147, 1-7.	1.3	20
62	Systemic administration of cholera toxin B subunit conjugated to horseradish peroxidase in the adult rat labels preganglionic autonomic neurons, motoneurons, and select primary afferents for light and electron microscopic studies. Journal of Neuroscience Methods, 2005, 149, 101-109.	1.3	9
63	Differential distribution of growth associated protein (GAP-43) in the motor nuclei of the adult rat conus medullaris. Experimental Brain Research, 2005, 161, 527-531.	0.7	2
64	Basic Advances and New Avenues in Therapy of Spinal Cord Injury. Annual Review of Medicine, 2004, 55, 255-282.	5.0	105
65	Plasticity of lumbosacral monosynaptic reflexes after a ventral root transection injury in the adult cat. Experimental Brain Research, 2004, 155, 111-114.	0.7	11
66	Autonomic and motor neuron death is progressive and parallel in a lumbosacral ventral root avulsion model of cauda equina injury. Journal of Comparative Neurology, 2003, 467, 477-486.	0.9	63
67	Transformation of synaptic vesicle phenotype in the intramedullary axonal arbors of cat spinal motoneurons following peripheral nerve injury. Experimental Brain Research, 2001, 139, 297-302.	0.7	5
68	Partial peripheral motor nerve lesions induce changes in the conduction properties of remaining intact motoneurons. Muscle and Nerve, 2001, 24, 662-666.	1.0	27
69	Neurofilamentous hypertrophy of intramedullary axonal arbors in intact spinal motoneurons undergoing peripheral sprouting. Journal of Neurocytology, 2001, 30, 917-926.	1.6	3
70	Changes in size and dendritic arborization patterns of adult cat spinal Î±-Motoneurons following permanent axotomy. Journal of Comparative Neurology, 1992, 318, 439-451.	0.9	61
71	Restorative effects of reinnervation on the size and dendritic arborization patterns of axotomized cat spinal Î±-motoneurons. Journal of Comparative Neurology, 1992, 318, 452-461.	0.9	42
72	Retrograde effects of axotomy on the intramedullary axon collateral systems and recurrent inhibitory reflexes of cat spinal motoneurones. Neuroscience Letters, 1984, 52, 13-17.	1.0	15