

Leif A Havton

List of Publications by Year in descending order

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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	Extensive spontaneous plasticity of corticospinal projections after primate spinal cord injury. <i>Nature Neuroscience</i> , 2010, 13, 1505-1510.	7.1	346
2	Targeted Complement Inhibition at Synapses Prevents Microglial Synaptic Engulfment and Synapse Loss in Demyelinating Disease. <i>Immunity</i> , 2020, 52, 167-182.e7.	6.6	244
3	Restorative effects of human neural stem cell grafts on the primate spinal cord. <i>Nature Medicine</i> , 2018, 24, 484-490.	15.2	236
4	Diminished Schwann Cell Repair Responses Underlie Age-Associated Impaired Axonal Regeneration. <i>Neuron</i> , 2014, 83, 331-343.	3.8	215
5	Chemotropic guidance facilitates axonal regeneration and synapse formation after spinal cord injury. <i>Nature Neuroscience</i> , 2009, 12, 1106-1113.	7.1	194
6	Pronounced species divergence in corticospinal tract reorganization and functional recovery after lateralized spinal cord injury favors primates. <i>Science Translational Medicine</i> , 2015, 7, 302ra134.	5.8	148
7	Self-Assisted Standing Enabled by Non-Invasive Spinal Stimulation after Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 1435-1450.	1.7	143
8	Biocompatibility of amphiphilic diblock copolypeptide hydrogels in the central nervous system. <i>Biomaterials</i> , 2009, 30, 2881-2898.	5.7	128
9	Basic Advances and New Avenues in Therapy of Spinal Cord Injury. <i>Annual Review of Medicine</i> , 2004, 55, 255-282.	5.0	105
10	Deficiency of the E3 ubiquitin ligase TRIM32 in mice leads to a myopathy with a neurogenic component. <i>Human Molecular Genetics</i> , 2009, 18, 1353-1367.	1.4	103
11	Chondroitinase improves anatomical and functional outcomes after primate spinal cord injury. <i>Nature Neuroscience</i> , 2019, 22, 1269-1275.	7.1	98
12	Deacetylation of Miro1 by HDAC6 blocks mitochondrial transport and mediates axon growth inhibition. <i>Journal of Cell Biology</i> , 2019, 218, 1871-1890.	2.3	80
13	Innervation and Neuronal Control of the Mammalian Sinoatrial Node a Comprehensive Atlas. <i>Circulation Research</i> , 2021, 128, 1279-1296.	2.0	64
14	Autonomic and motor neuron death is progressive and parallel in a lumbosacral ventral root avulsion model of cauda equina injury. <i>Journal of Comparative Neurology</i> , 2003, 467, 477-486.	0.9	63
15	Changes in size and dendritic arborization patterns of adult cat spinal $\hat{\pm}$ -Motoneurons following permanent axotomy. <i>Journal of Comparative Neurology</i> , 1992, 318, 439-451.	0.9	61
16	Locomotor Training Maintains Normal Inhibitory Influence on Both Alpha- and Gamma-Motoneurons after Neonatal Spinal Cord Transection. <i>Journal of Neuroscience</i> , 2011, 31, 26-33.	1.7	59
17	Differential effects of urethane and isoflurane on external urethral sphincter electromyography and cystometry in rats. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 295, F1248-F1253.	1.3	55
18	Functional Reinnervation of the Rat Lower Urinary Tract after Cauda Equina Injury and Repair. <i>Journal of Neuroscience</i> , 2006, 26, 8672-8679.	1.7	46

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19	Restorative effects of reinnervation on the size and dendritic arborization patterns of axotomized cat spinal $\hat{1}\pm$ -motoneurons. <i>Journal of Comparative Neurology</i> , 1992, 318, 452-461.	0.9	42
20	Repair and rehabilitation of plexus and root avulsions in animal models and patients. <i>Current Opinion in Neurology</i> , 2009, 22, 570-574.	1.8	38
21	Neural Stem Cell Dissemination after Grafting to CNS Injury Sites. <i>Cell</i> , 2014, 156, 388-389.	13.5	35
22	Spinal stimulation of the upper lumbar spinal cord modulates urethral sphincter activity in rats after spinal cord injury. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, F1032-F1040.	1.3	35
23	Partial peripheral motor nerve lesions induce changes in the conduction properties of remaining intact motoneurons. <i>Muscle and Nerve</i> , 2001, 24, 662-666.	1.0	27
24	Ultrastructural synaptic features differ between $\hat{1}\pm$ - and $\hat{1}^3$ -motoneurons innervating the tibialis anterior muscle in the rat. <i>Journal of Comparative Neurology</i> , 2006, 499, 306-315.	0.9	26
25	The longitudinal spinal cord injury. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2012, 109, 337-354.	1.0	25
26	PI(3,5)P2 biosynthesis regulates oligodendrocyte differentiation by intrinsic and extrinsic mechanisms. <i>ELife</i> , 2016, 5, .	2.8	25
27	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. <i>Experimental Neurology</i> , 2013, 239, 210-217.	2.0	24
28	Improved detection of fluorogold-labeled neurons in long-term studies. <i>Journal of Neuroscience Methods</i> , 2006, 152, 156-162.	1.3	23
29	Novel repair strategies to restore bladder function following cauda equina/conus medullaris injuries. <i>Progress in Brain Research</i> , 2006, 152, 195-204.	0.9	23
30	Mapping and neuromodulation of lower urinary tract function using spinal cord stimulation in female rats. <i>Experimental Neurology</i> , 2018, 305, 26-32.	2.0	23
31	Titanium mesh implantationâ€™A method to stabilize the spine and protect the spinal cord following a multilevel laminectomy in the adult rat. <i>Journal of Neuroscience Methods</i> , 2005, 147, 1-7.	1.3	20
32	Glial reactions in a rodent cauda equina injury and repair model. <i>Experimental Brain Research</i> , 2006, 170, 52-60.	0.7	19
33	Noninvasive spinal neuromodulation to map and augment lower urinary tract function in rhesus macaques. <i>Experimental Neurology</i> , 2019, 322, 113033.	2.0	18
34	A single re-implanted ventral root exerts neurotropic effects over multiple spinal cord segments in the adult rat. <i>Experimental Brain Research</i> , 2006, 169, 208-217.	0.7	17
35	Correlation of median forearm conduction velocity with carpal tunnel syndrome severity. <i>Clinical Neurophysiology</i> , 2007, 118, 781-785.	0.7	16
36	Re-established micturition reflexes show differential activation patterns after lumbosacral ventral root avulsion injury and repair in rats. <i>Experimental Neurology</i> , 2008, 212, 291-297.	2.0	16

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37	Retrogradely transported fluorogold accumulates in lysosomes of neurons and is detectable ultrastructurally using post-embedding immuno-gold methods. <i>Journal of Neuroscience Methods</i> , 2009, 184, 42-47.	1.3	16
38	Leveraging biomedical informatics for assessing plasticity and repair in primate spinal cord injury. <i>Brain Research</i> , 2015, 1619, 124-138.	1.1	16
39	Noninvasive neurophysiological mapping of the lower urinary tract in adult and aging rhesus macaques. <i>Journal of Neurophysiology</i> , 2018, 119, 1521-1527.	0.9	16
40	Retrograde effects of axotomy on the intramedullary axon collateral systems and recurrent inhibitory reflexes of cat spinal motoneurons. <i>Neuroscience Letters</i> , 1984, 52, 13-17.	1.0	15
41	Complement activation after lumbosacral ventral root avulsion injury. <i>Neuroscience Letters</i> , 2006, 394, 179-183.	1.0	15
42	Minocycline protects motor but not autonomic neurons after cauda equina injury. <i>Experimental Brain Research</i> , 2008, 189, 71-77.	0.7	15
43	Neural stem cells in models of spinal cord injury. <i>Experimental Neurology</i> , 2014, 261, 494-500.	2.0	13
44	Protective role of the lipid phosphatase Fig4 in the adult nervous system. <i>Human Molecular Genetics</i> , 2018, 27, 2443-2453.	1.4	13
45	Generalized seizure activity in an adult rhesus macaque (<i>Macaca mulatta</i>) during ketamine anesthesia and urodynamic studies. <i>Comparative Medicine</i> , 2013, 63, 445-7.	0.4	13
46	Human organ donor-derived vagus nerve biopsies allow for well-preserved ultrastructure and high-resolution mapping of myelinated and unmyelinated fibers. <i>Scientific Reports</i> , 2021, 11, 23831.	1.6	13
47	A ventral root avulsion injury model for neurogenic underactive bladder studies. <i>Experimental Neurology</i> , 2016, 285, 190-196.	2.0	12
48	Ultraflexible and Stretchable Intrafascicular Peripheral Nerve Recording Device with Axonâ€Dimension, Cuffâ€Less Microneedle Electrode Array. <i>Small</i> , 2022, 18, e2200311.	5.2	12
49	Plasticity of lumbosacral monosynaptic reflexes after a ventral root transection injury in the adult cat. <i>Experimental Brain Research</i> , 2004, 155, 111-114.	0.7	11
50	Selective plasticity of primary afferent innervation to the dorsal horn and autonomic nuclei following lumbosacral ventral root avulsion and reimplantation in long term studies. <i>Experimental Neurology</i> , 2012, 233, 758-766.	2.0	11
51	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. <i>Journal of Neuroscience Methods</i> , 2005, 149, 101-109.	1.3	9
52	Surgical implantation of avulsed lumbosacral ventral roots promotes restoration of bladder morphology in rats. <i>Experimental Neurology</i> , 2008, 214, 117-124.	2.0	9
53	Modulation of the visceromotor reflex by a lumbosacral ventral root avulsion injury and repair in rats. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, F641-F647.	1.3	9
54	The Suitability of Propofol Compared with Urethane for Anesthesia during Urodynamic Studies in Rats. <i>Journal of the American Association for Laboratory Animal Science</i> , 2016, 55, 89-94.	0.6	8

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55	Radiographic and Magnetic Resonance Imaging Identification of Thoracolumbar Spine Variants with Implications for the Positioning of the Conus Medullaris in Rhesus Macaques. <i>Anatomical Record</i> , 2017, 300, 300-308.	0.8	7
56	High-throughput segmentation of unmyelinated axons by deep learning. <i>Scientific Reports</i> , 2022, 12, 1198.	1.6	7
57	Ketamine-induced neuromuscular reactivity is associated with aging in female rhesus macaques. <i>PLoS ONE</i> , 2020, 15, e0236430.	1.1	6
58	Transformation of synaptic vesicle phenotype in the intramedullary axonal arbors of cat spinal motoneurons following peripheral nerve injury. <i>Experimental Brain Research</i> , 2001, 139, 297-302.	0.7	5
59	A shape-adjusted ellipse approach corrects for varied axonal dispersion angles and myelination in primate nerve roots. <i>Scientific Reports</i> , 2021, 11, 3150.	1.6	5
60	Paraplegia and Spinal Cord Syndromes. , 2012, , 286-292.		5
61	Neurofilamentous hypertrophy of intramedullary axonal arbors in intact spinal motoneurons undergoing peripheral sprouting. <i>Journal of Neurocytology</i> , 2001, 30, 917-926.	1.6	3
62	A Lumbosacral Ventral Root Avulsion Injury and Repair Model for Studies of Neuropathic Pain in Rats. <i>Methods in Molecular Biology</i> , 2012, 851, 185-193.	0.4	3
63	Differential distribution of growth associated protein (GAP-43) in the motor nuclei of the adult rat conus medullaris. <i>Experimental Brain Research</i> , 2005, 161, 527-531.	0.7	2
64	Systemic administration of fluorogold for anatomical pre-labeling of autonomic and motor neurons in the rat spinal cord compromises urodynamic recordings in acute but not long-term studies. <i>Neurourology and Urodynamics</i> , 2012, 31, 162-167.	0.8	2
65	Generalized convulsive seizures are associated with ketamine anesthesia in a rhesus macaque (<i>Macaca mulatta</i>) undergoing urodynamic studies and transcutaneous spinal cord stimulation. <i>Journal of Medical Primatology</i> , 2017, 46, 359-363.	0.3	2
66	EMG characteristics of the external anal sphincter guarding reflex and effects of a unilateral ventral root avulsion injury in rhesus macaques (<i>Macaca mulatta</i>). <i>Journal of Neurophysiology</i> , 2018, 120, 2710-2718.	0.9	2
67	Surgical Replantation of Avulsed Lumbosacral Ventral Roots and Urodynamic Studies in a Rhesus Macaque (<i>Macaca mulatta</i>) Model of Cauda Equina/Conus Medullaris Injury and Repair. <i>Neuromethods</i> , 2019, , 207-220.	0.2	2
68	Sexual dimorphism of detrusor function demonstrated by urodynamic studies in rhesus macaques. <i>Scientific Reports</i> , 2020, 10, 16170.	1.6	2
69	Plasticity of Select Primary Afferent Projections to the Dorsal Horn after a Lumbosacral Ventral Root Avulsion Injury and Root Replantation in Rats. <i>Frontiers in Neurology</i> , 2017, 8, 291.	1.1	1
70	SPARC: A Hybrid Computational Approach to Classify Vagal C Fiber Functions. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	1
71	Introduction to Special Issue on Bladder Control in Neurological Diseases. <i>Experimental Neurology</i> , 2016, 285, 109.	2.0	0
72	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. <i>Neuromethods</i> , 2016, , 167-180.	0.2	0