

David S K Magnuson

List of Publications by Year in descending order

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99
papers

4,523
citations

87888

38
h-index

110387

64
g-index

103
all docs

103
docs citations

103
times ranked

3415
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of a human immunodeficiency virus type 1 Tat epitope that is neuroexcitatory and neurotoxic. <i>Journal of Virology</i> , 1996, 70, 1475-1480.	3.4	308
2	Human immunodeficiency virus type 1 tat activates non-N-methyl-D-aspartate excitatory amino acid receptors and causes neurotoxicity. <i>Annals of Neurology</i> , 1995, 37, 373-380.	5.3	286
3	Comparing Deficits Following Excitotoxic and Contusion Injuries in the Thoracic and Lumbar Spinal Cord of the Adult Rat. <i>Experimental Neurology</i> , 1999, 156, 191-204.	4.1	194
4	Transplantation of Ciliary Neurotrophic Factor-Expressing Adult Oligodendrocyte Precursor Cells Promotes Remyelination and Functional Recovery after Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2010, 30, 2989-3001.	3.6	193
5	Functional Redundancy of Ventral Spinal Locomotor Pathways. <i>Journal of Neuroscience</i> , 2002, 22, 315-323.	3.6	152
6	Neuronal excitatory properties of human immunodeficiency virus type 1 tat protein. <i>Neuroscience</i> , 1997, 82, 97-106.	2.3	134
7	Mitogen and Substrate Differentially Affect the Lineage Restriction of Adult Rat Subventricular Zone Neural Precursor Cell Populations. <i>Experimental Cell Research</i> , 1999, 252, 75-95.	2.6	134
8	Differential interactions of cholecystinin and FLFQPQRF-NH ₂ with μ and δ opioid antinociception in the rat spinal cord. <i>Neuropeptides</i> , 1990, 16, 213-218.	2.2	118
9	Both Dorsal and Ventral Spinal Cord Pathways Contribute to Overground Locomotion in the Adult Rat. <i>Experimental Neurology</i> , 2002, 177, 575-580.	4.1	111
10	Functional Consequences of Lumbar Spinal Cord Contusion Injuries in the Adult Rat. <i>Journal of Neurotrauma</i> , 2005, 22, 529-543.	3.4	101
11	Anatomical and Functional Outcomes following a Precise, Graded, Dorsal Laceration Spinal Cord Injury in C57BL/6 Mice. <i>Journal of Neurotrauma</i> , 2009, 26, 1-15.	3.4	101
12	Development of a Database for Translational Spinal Cord Injury Research. <i>Journal of Neurotrauma</i> , 2014, 31, 1789-1799.	3.4	100
13	Gait Analysis in Normal and Spinal Contused Mice Using the TreadScan System. <i>Journal of Neurotrauma</i> , 2009, 26, 2045-2056.	3.4	93
14	Effects of Swimming on Functional Recovery after Incomplete Spinal Cord Injury in Rats. <i>Journal of Neurotrauma</i> , 2006, 23, 908-919.	3.4	89
15	Lamina-specific effects of morphine and naloxone in dorsal horn of rat spinal cord in vitro. <i>Journal of Neurophysiology</i> , 1991, 66, 1941-1950.	1.8	86
16	N-acetylcysteine amide preserves mitochondrial bioenergetics and improves functional recovery following spinal trauma. <i>Experimental Neurology</i> , 2014, 257, 95-105.	4.1	84
17	A Grading System To Evaluate Objectively the Strength of Pre-Clinical Data of Acute Neuroprotective Therapies for Clinical Translation in Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2011, 28, 1525-1543.	3.4	83
18	Synthesis, resolution, and absolute configuration of the isomers of the neuronal excitant 1-amino-1,3-cyclopentanedicarboxylic acid. <i>Journal of Medicinal Chemistry</i> , 1988, 31, 864-867.	6.4	80

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19	The Louisville Swim Scale: A Novel Assessment of Hindlimb Function following Spinal Cord Injury in Adult Rats. <i>Journal of Neurotrauma</i> , 2006, 23, 1654-1670.	3.4	77
20	Task-specificity vs. ceiling effect: Step-training in shallow water after spinal cord injury. <i>Experimental Neurology</i> , 2010, 224, 178-187.	4.1	76
21	Inter-enlargement pathways in the ventrolateral funiculus of the adult rat spinal cord. <i>Neuroscience</i> , 2006, 142, 1195-1207.	2.3	75
22	Large animal and primate models of spinal cord injury for the testing of novel therapies. <i>Experimental Neurology</i> , 2015, 269, 154-168.	4.1	75
23	Swimming as a Model of Task-Specific Locomotor Retraining After Spinal Cord Injury in the Rat. <i>Neurorehabilitation and Neural Repair</i> , 2009, 23, 535-545.	2.9	70
24	Locomotor Rhythm Evoked by Ventrolateral Funiculus Stimulation in the Neonatal Rat Spinal Cord In Vitro. <i>Journal of Neurophysiology</i> , 1997, 77, 200-206.	1.8	67
25	Adult rat forelimb dysfunction after dorsal cervical spinal cord injury. <i>Experimental Neurology</i> , 2005, 192, 25-38.	4.1	65
26	Murine embryonal carcinoma-derived neurons survive and mature following transplantation into adult rat striatum. <i>Neuroscience</i> , 1994, 58, 753-763.	2.3	64
27	Rolipram attenuates acute oligodendrocyte death in the adult rat ventrolateral funiculus following contusive cervical spinal cord injury. <i>Neuroscience Letters</i> , 2008, 438, 200-204.	2.1	64
28	Acetyl-L-carnitine treatment following spinal cord injury improves mitochondrial function correlated with remarkable tissue sparing and functional recovery. <i>Neuroscience</i> , 2012, 210, 296-307.	2.3	62
29	Hindlimb Immobilization in a Wheelchair Alters Functional Recovery Following Contusive Spinal Cord Injury in the Adult Rat. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 729-739.	2.9	58
30	Swim Training Initiated Acutely after Spinal Cord Injury Is Ineffective and Induces Extravasation In and Around the Epicenter. <i>Journal of Neurotrauma</i> , 2009, 26, 1017-1027.	3.4	56
31	Spinal Cord Contusion Based on Precise Vertebral Stabilization and Tissue Displacement Measured by Combined Assessment to Discriminate Small Functional Differences. <i>Journal of Neurotrauma</i> , 2008, 25, 1227-1240.	3.4	55
32	Inhibition of EphA7 up-regulation after spinal cord injury reduces apoptosis and promotes locomotor recovery. <i>Journal of Neuroscience Research</i> , 2006, 84, 1438-1451.	2.9	51
33	Comprehensive locomotor outcomes correlate to hyperacute diffusion tensor measures after spinal cord injury in the adult rat. <i>Experimental Neurology</i> , 2012, 235, 188-196.	4.1	48
34	Functional testing in animal models of spinal cord injury: not as straight forward as one would think. <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 85.	2.1	45
35	Electrophysiological Properties of Mitogen-Expanded Adult Rat Spinal Cord and Subventricular Zone Neural Precursor Cells. <i>Experimental Neurology</i> , 1999, 158, 143-154.	4.1	44
36	Swim training initiated acutely after spinal cord injury is ineffective and induces extravasation in and around the epicenter. <i>Journal of Neurotrauma</i> , 2009, 26, 110306202455053.	3.4	43

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37	Anterograde labeling of ventrolateral funiculus pathways with spinal enlargement connections in the adult rat spinal cord. <i>Brain Research</i> , 2009, 1302, 76-84.	2.2	41
38	Lamina VII neurons are rhythmically active during locomotor-like activity in the neonatal rat spinal cord. <i>Neuroscience Letters</i> , 1995, 197, 9-12.	2.1	40
39	Spinal Interneurons as Gatekeepers to Neuroplasticity after Injury or Disease. <i>Journal of Neuroscience</i> , 2021, 41, 845-854.	3.6	39
40	In vivo electrophysiological maturation of neurons derived from a multipotent precursor (embryonal) Tj ETQq0 0 0 rBT /Overlock 10 Tf	1.7	38
41	Use of magnetic stimulation to elicit motor evoked potentials, somatosensory evoked potentials, and H-reflexes in non-sedated rodents. <i>Journal of Neuroscience Methods</i> , 2007, 165, 9-17.	2.5	36
42	The N-methyl-d-aspartate receptor and burst firing of ca1 hippocampal pyramidal neurons. <i>Neuroscience</i> , 1987, 22, 563-571.	2.3	34
43	Magnetically evoked inter-enlargement response: An assessment of ascending propriospinal fibers following spinal cord injury. <i>Experimental Neurology</i> , 2006, 201, 428-440.	4.1	32
44	Reticulospinal pathways in the ventrolateral funiculus with terminations in the cervical and lumbar enlargements of the adult rat spinal cord. <i>Neuroscience</i> , 2008, 151, 505-517.	2.3	32
45	Reversible silencing of lumbar spinal interneurons unmask a task-specific network for securing hindlimb alternation. <i>Nature Communications</i> , 2017, 8, 1963.	12.8	32
46	Ca ²⁺ -dependent depolarization and burst firing of rat CA1 pyramidal neurones induced by N-methyl-D-aspartic acid and quinolinic acid: antagonism by 2-amino-5-phosphonovaleric and kynurenic acids. <i>Canadian Journal of Physiology and Pharmacology</i> , 1986, 64, 163-168.	1.4	29
47	Long ascending propriospinal neurons provide flexible, context-specific control of interlimb coordination. <i>ELife</i> , 2020, 9, .	6.0	29
48	Spinal Cord Injury Causes Systolic Dysfunction and Cardiomyocyte Atrophy. <i>Journal of Neurotrauma</i> , 2018, 35, 424-434.	3.4	28
49	Functional consequences of ethidium bromide demyelination of the mouse ventral spinal cord. <i>Experimental Neurology</i> , 2013, 247, 615-622.	4.1	27
50	FAIR SCI Ahead: The Evolution of the Open Data Commons for Pre-Clinical Spinal Cord Injury Research. <i>Journal of Neurotrauma</i> , 2020, 37, 831-838.	3.4	27
51	Hindlimb Stretching Alters Locomotor Function After Spinal Cord Injury in the Adult Rat. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 268-277.	2.9	24
52	Lasting paraplegia caused by loss of lumbar spinal cord interneurons in rats: no direct correlation with motor neuron loss. <i>Journal of Neurosurgery: Spine</i> , 2000, 93, 266-275.	1.7	23
53	Neurons labeled from locomotor-related ventrolateral funiculus stimulus sites in the neonatal rat spinal cord. <i>Journal of Comparative Neurology</i> , 2002, 442, 226-238.	1.6	23
54	Bone Loss following Spinal Cord Injury in a Rat Model. <i>Journal of Neurotrauma</i> , 2012, 29, 1676-1682.	3.4	23

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55	A comparison of passive hindlimb cycling and active upper-limb exercise provides new insights into systolic dysfunction after spinal cord injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H861-H870.	3.2	22
56	Neurons derived from P19 embryonal carcinoma cells develop responses to excitatory and inhibitory neurotransmitters. <i>Developmental Brain Research</i> , 1995, 90, 141-150.	1.7	21
57	Neuroregeneration in Composite Tissue Allografts: Effect of Low-Dose FK506 and Mycophenolate Mofetil Immunotherapy. <i>Plastic and Reconstructive Surgery</i> , 2006, 118, 615-623.	1.4	21
58	Long-duration, frequency-dependent motor responses evoked by ventrolateral funiculus stimulation in the neonatal rat spinal cord. <i>Neuroscience Letters</i> , 1995, 192, 97-100.	2.1	20
59	Silencing long ascending propriospinal neurons after spinal cord injury improves hindlimb stepping in the adult rat. <i>ELife</i> , 2021, 10, .	6.0	17
60	A novel spinal cord slice preparation from the rat. <i>Journal of Neuroscience Methods</i> , 1987, 19, 141-145.	2.5	16
61	Embryonic brain precursors transplanted into kainate lesioned rat spinal cord. <i>NeuroReport</i> , 2001, 12, 1015-1019.	1.2	16
62	Electromyographic patterns of the rat hindlimb in response to muscle stretch after spinal cord injury. <i>Spinal Cord</i> , 2018, 56, 560-568.	1.9	16
63	Excitation of rat hippocampal neurones by the stereoisomers of cis- and trans-1-amino-1,3-cyclopentane dicarboxylate. <i>Canadian Journal of Physiology and Pharmacology</i> , 1987, 65, 2196-2201.	1.4	15
64	Structural requirements for activation of excitatory amino acid receptors in the rat spinal cord in vitro. <i>Experimental Brain Research</i> , 1988, 73, 541-545.	1.5	15
65	Consequences of Common Data Analysis Inaccuracies in CNS Trauma Injury Basic Research. <i>Journal of Neurotrauma</i> , 2013, 30, 797-805.	3.4	15
66	Human chorionic gonadotropin/luteinizing hormone receptor expression in the adult rat spinal cord. <i>Neuroscience Letters</i> , 2003, 336, 135-138.	2.1	14
67	Challenges of animal models in SCI research: Effects of pre-injury task-specific training in adult rats before lesion. <i>Behavioural Brain Research</i> , 2015, 291, 26-35.	2.2	14
68	Challenging cardiac function post-spinal cord injury with dobutamine. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2018, 209, 19-24.	2.8	14
69	The Transcriptional Response of Neurotrophins and Their Tyrosine Kinase Receptors in Lumbar Sensorimotor Circuits to Spinal Cord Contusion is Affected by Injury Severity and Survival Time. <i>Frontiers in Physiology</i> , 2012, 3, 478.	2.8	13
70	Acridinic acid: A new antagonist of amino acid-induced excitations of central neurones. <i>Neuroscience Letters</i> , 1986, 66, 101-105.	2.1	12
71	Lumbar Spinoreticular Neurons in the Rat: Part of the Central Pattern Generator for Locomotion? a. <i>Annals of the New York Academy of Sciences</i> , 1998, 860, 436-440.	3.8	12
72	Disruption of Locomotion in Response to Hindlimb Muscle Stretch at Acute and Chronic Time Points after a Spinal Cord Injury in Rats. <i>Journal of Neurotrauma</i> , 2017, 34, 661-670.	3.4	12

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73	Treadmill-Based Gait Kinematics in the Yucatan Mini Pig. <i>Journal of Neurotrauma</i> , 2020, 37, 2277-2291.	3.4	12
74	Nociceptor-dependent locomotor dysfunction after clinically-modeled hindlimb muscle stretching in adult rats with spinal cord injury. <i>Experimental Neurology</i> , 2019, 318, 267-276.	4.1	11
75	Electrophysiological changes accompanying DSP-4 lesions of rat locus coeruleus neurons. <i>Brain Research</i> , 1993, 628, 317-320.	2.2	10
76	Promoting FAIR Data Through Community-driven Agile Design: the Open Data Commons for Spinal Cord Injury (odc-sci.org). <i>Neuroinformatics</i> , 2022, 20, 203-219.	2.8	10
77	Dynamic “Range of Motion” Hindlimb Stretching Disrupts Locomotor Function in Rats with Moderate Subacute Spinal Cord Injuries. <i>Journal of Neurotrauma</i> , 2017, 34, 2086-2091.	3.4	9
78	Activity/exercise-induced changes in the liver transcriptome after chronic spinal cord injury. <i>Scientific Data</i> , 2019, 6, 88.	5.3	9
79	The action of quinolinate in the rat spinal cord in vitro. <i>Canadian Journal of Physiology and Pharmacology</i> , 1987, 65, 2483-2487.	1.4	8
80	Temporal analysis of cardiovascular control and function following incomplete T3 and T10 spinal cord injury in rodents. <i>Physiological Reports</i> , 2018, 6, e13634.	1.7	8
81	Non-stationary analysis of extracellular neural activity. <i>Neurocomputing</i> , 2000, 32-33, 1083-1093.	5.9	7
82	Transcriptome of dorsal root ganglia caudal to a spinal cord injury with modulated behavioral activity. <i>Scientific Data</i> , 2019, 6, 83.	5.3	7
83	Effects of early exercise training on the severity of autonomic dysreflexia following incomplete spinal cord injury in rodents. <i>Physiological Reports</i> , 2021, 9, e14969.	1.7	7
84	Optimizing Stem Cell Grafting into the CNS. <i>Methods in Molecular Biology</i> , 2008, 438, 375-382.	0.9	7
85	Basso, Beattie, and Bresnahan Scale Locomotor Assessment Following Spinal Cord Injury and Its Utility as a Criterion for Other Assessments. <i>Springer Protocols</i> , 2012, , 591-604.	0.3	6
86	Initiation of segmental locomotor-like activities by stimulation of ventrolateral funiculus in the neonatal rat. <i>Experimental Brain Research</i> , 2011, 214, 151-161.	1.5	5
87	Dual-Viral Transduction Utilizing Highly Efficient Retrograde Lentivirus Improves Labeling of Long Proprioceptive Neurons. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 635921.	1.7	5
88	Cervical response among ascending ventrolateral funiculus pathways of the neonatal rat. <i>Brain Research</i> , 2013, 1491, 136-146.	2.2	4
89	Introduction to the Special Issue on Locomotor Rehabilitation after Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 1711-1712.	3.4	4
90	Evidence That the Central Nervous System Can Induce a Modification at the Neuromuscular Junction That Contributes to the Maintenance of a Behavioral Response. <i>Journal of Neuroscience</i> , 2020, 40, 9186-9209.	3.6	2

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91	Broad opioid antagonism amplifies disruption of locomotor function following therapy-like hindlimb stretching in spinal cord injured rats. <i>Spinal Cord</i> , 2022, 60, 312-319.	1.9	2
92	Markers of susceptibility to cardiac arrhythmia in experimental spinal cord injury and the impact of sympathetic stimulation and exercise training. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2021, 235, 102867.	2.8	2
93	Protocol for rapid onset of mobilisation in patients with traumatic spinal cord injury (PROMPT-SCI) study: a single-arm proof-of-concept trial of early in-bed leg cycling following acute traumatic spinal cord injury. <i>BMJ Open</i> , 2021, 11, e049884.	1.9	2
94	RNA-seq data of soleus muscle tissue after spinal cord injury under conditions of inactivity and applied exercise. <i>Data in Brief</i> , 2020, 28, 105056.	1.0	1
95	Techniques for Studying the Electrophysiology of Neurons Derived from Neural Stem/Progenitor Cells. , 2002, 198, 179-186.		0
96	Swimming as an Assessment of Hindlimb Function in Animals with Traumatic Spinal Cord Injury. <i>Springer Protocols</i> , 2012, , 663-677.	0.3	0
97	Automated Gait Analysis Following Spinal Cord Injury. <i>Springer Protocols</i> , 2012, , 625-638.	0.3	0
98	Immunohistochemical detection of double-infected cell bodies. <i>Protocol Exchange</i> , 0, , .	0.3	0
99	Immunohistochemical detection of viral-infected terminals. <i>Protocol Exchange</i> , 0, , .	0.3	0