

# Alan M Brichta

## List of Publications by Year in descending order

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69  
papers

1,992  
citations

218677

26  
h-index

276875

41  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Widespread Vestibular Activation of the Rodent Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 5926-5934.	3.6	104
2	Moving From an Averaged to Specific View of Spinal Cord Pain Processing Circuits. <i>Journal of Neurophysiology</i> , 2007, 98, 1057-1063.	1.8	102
3	Organic Bioelectronics: Materials and Biocompatibility. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2382.	4.1	102
4	Potassium accumulation between type I hair cells and calyx terminals in mouse crista. <i>Experimental Brain Research</i> , 2011, 210, 607-621.	1.5	88
5	Anatomical and physiological development of the human inner ear. <i>Hearing Research</i> , 2016, 338, 9-21.	2.0	87
6	Responses to Efferent Activation and Excitatory Response-Intensity Relations of Turtle Posterior-Crista Afferents. <i>Journal of Neurophysiology</i> , 2000, 83, 1224-1242.	1.8	85
7	In vivo responses of mouse superficial dorsal horn neurones to both current injection and peripheral cutaneous stimulation. <i>Journal of Physiology</i> , 2004, 561, 749-763.	2.9	81
8	Functional architecture of vestibular primary afferents from the posterior semicircular canal of a turtle, <i>Pseudemys (Trachemys) scripta elegans</i> . <i>Journal of Comparative Neurology</i> , 1994, 344, 481-507.	1.6	67
9	Quantitative analysis of cervical musculature in rats: Histochemical composition and motor pool organization. I. Muscles of the spinal accessory complex. <i>Journal of Comparative Neurology</i> , 1987, 255, 351-368.	1.6	59
10	Morphological Identification of Physiologically Characterized Afferents Innervating the Turtle Posterior Crista. <i>Journal of Neurophysiology</i> , 2000, 83, 1202-1223.	1.8	58
11	Regional Analysis of Whole Cell Currents From Hair Cells of the Turtle Posterior Crista. <i>Journal of Neurophysiology</i> , 2002, 88, 3259-3278.	1.8	54
12	Heat pulse excitability of vestibular hair cells and afferent neurons. <i>Journal of Neurophysiology</i> , 2016, 116, 825-843.	1.8	51
13	Afferent and Efferent Responses from Morphological Fiber Classes in the Turtle Posterior Crista. <i>Annals of the New York Academy of Sciences</i> , 1996, 781, 183-195.	3.8	46
14	Inhibitory Synaptic Transmission Differs in Mouse Type A and B Medial Vestibular Nucleus Neurons In Vitro. <i>Journal of Neurophysiology</i> , 2006, 95, 3208-3218.	1.8	46
15	Quantitative analysis of cervical musculature in rats: Histochemical composition and motor pool organization. II. Deep dorsal muscles. <i>Journal of Comparative Neurology</i> , 1987, 255, 369-385.	1.6	44
16	Evidence for a Critical Period in the Development of Excitability and Potassium Currents in Mouse Lumbar Superficial Dorsal Horn Neurons. <i>Journal of Neurophysiology</i> , 2009, 101, 1800-1812.	1.8	43
17	Recording Temperature Affects the Excitability of Mouse Superficial Dorsal Horn Neurons, In Vitro. <i>Journal of Neurophysiology</i> , 2008, 99, 2048-2059.	1.8	42
18	Dizocilpine attenuates streptomycin-induced vestibulotoxicity in rats. <i>Neuroscience Letters</i> , 1999, 265, 71-74.	2.1	41

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19	A review of mechanical and synaptic processes in otolith transduction of sound and vibration for clinical VEMP testing. <i>Journal of Neurophysiology</i> , 2019, 122, 259-276.	1.8	39
20	A Mouse Model of Acute Bacterial Rhinosinusitis. <i>JAMA Otolaryngology</i> , 1998, 124, 1227.	1.2	38
21	Altered potassium channel function in the superficial dorsal horn of the spastic mouse. <i>Journal of Physiology</i> , 2007, 584, 121-136.	2.9	38
22	Planar Relations of Semicircular Canals in Awake, Resting Turtles, &Pseudemys scripta. <i>Brain, Behavior and Evolution</i> , 1988, 32, 236-245.	1.7	37
23	Preliminary Characterization of Voltage-Activated Whole-Cell Currents in Developing Human Vestibular Hair Cells and Calyx Afferent Terminals. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2014, 15, 755-766.	1.8	35
24	Transmission Between Type II Hair Cells and Bouton Afferents in the Turtle Posterior Crista. <i>Journal of Neurophysiology</i> , 2006, 95, 428-452.	1.8	33
25	A review of efferent cholinergic synaptic transmission in the vestibular periphery and its functional implications. <i>Journal of Neurophysiology</i> , 2020, 123, 608-629.	1.8	33
26	Pinch-current injection defines two discharge profiles in mouse superficial dorsal horn neurones, in vitro. <i>Journal of Physiology</i> , 2007, 578, 787-798.	2.9	30
27	Different Forms of Glycine- and GABA <sub>A</sub> -Receptor Mediated Inhibitory Synaptic Transmission in Mouse Superficial and Deep Dorsal Horn Neurons. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-65.	2.1	28
28	Pacemaker currents in mouse locus coeruleus neurons. <i>Neuroscience</i> , 2010, 170, 166-177.	2.3	27
29	An in vivo mouse spinal cord preparation for patch-clamp analysis of nociceptive processing. <i>Journal of Neuroscience Methods</i> , 2004, 136, 221-228.	2.5	24
30	Alpha-9 nicotinic acetylcholine receptors mediate hypothermic responses elicited by provocative motion in mice. <i>Physiology and Behavior</i> , 2017, 174, 114-119.	2.1	24
31	ACh-induced hyperpolarization and decreased resistance in mammalian type II vestibular hair cells. <i>Journal of Neurophysiology</i> , 2018, 119, 312-325.	1.8	24
32	An Increase in Glycinergic Quantal Amplitude and Frequency During Early Vestibular Compensation in Mouse. <i>Journal of Neurophysiology</i> , 2010, 103, 16-24.	1.8	22
33	Altered neurofilament protein expression in the lateral vestibular nucleus in Parkinson's disease. <i>Experimental Brain Research</i> , 2017, 235, 3695-3708.	1.5	22
34	Attenuated glycine receptor function reduces excitability of mouse medial vestibular nucleus neurons. <i>Neuroscience</i> , 2010, 170, 348-360.	2.3	21
35	The Papilla Neglecta of Turtles: A Detector of Head Rotations with Unique Sensory Coding Properties. <i>Journal of Neuroscience</i> , 1998, 18, 4314-4324.	3.6	18
36	Functional Analysis of Whole Cell Currents From Hair Cells of the Turtle Posterior Crista. <i>Journal of Neurophysiology</i> , 2002, 88, 3279-3292.	1.8	18

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37	Are all spinal segments equal: intrinsic membrane properties of superficial dorsal horn neurons in the developing and mature mouse spinal cord. <i>Journal of Physiology</i> , 2012, 590, 2409-2425.	2.9	18
38	Electrical maturation of spinal neurons in the human fetus: comparison of ventral and dorsal horn. <i>Journal of Neurophysiology</i> , 2015, 114, 2661-2671.	1.8	18
39	Evolutionary Trends in the Organization of the Vertebrate Crista Ampullaris. <i>Otolaryngology - Head and Neck Surgery</i> , 1998, 119, 165-171.	1.9	16
40	Vestibular primary afferent activity in an in vitro preparation of the mouse inner ear. <i>Journal of Neuroscience Methods</i> , 2005, 145, 73-87.	2.5	16
41	Intrinsic and synaptic homeostatic plasticity in motoneurons from mice with glycine receptor mutations. <i>Journal of Neurophysiology</i> , 2014, 111, 1487-1498.	1.8	16
42	Aging reduces the high-frequency and short-term adaptation of the vestibulo-ocular reflex in mice. <i>Neurobiology of Aging</i> , 2017, 51, 122-131.	3.1	15
43	Alteration of miRNA-mRNA interactions in lymphocytes of individuals with schizophrenia. <i>Journal of Psychiatric Research</i> , 2019, 112, 89-98.	3.1	15
44	A horizontal slice preparation for examining the functional connectivity of dorsal column fibres in mouse spinal cord. <i>Journal of Neuroscience Methods</i> , 2011, 200, 113-120.	2.5	14
45	Cervix Stimulation Evokes Predominantly Subthreshold Synaptic Responses in Mouse Thoracolumbar and Lumbosacral Superficial Dorsal Horn Neurons. <i>Journal of Sexual Medicine</i> , 2010, 7, 2068-2076.	0.6	13
46	Glycine Receptor Deficiency and Its Effect on the Horizontal Vestibulo-ocular Reflex: a Study on the SPD1J Mouse. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2013, 14, 249-259.	1.8	13
47	Organic Semiconductors for Optically Triggered Neural Interfacing: The Impact of Device Architecture in Determining Response Magnitude and Polarity. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-12.	2.9	13
48	Ketamine anesthesia helps preserve neuronal viability. <i>Journal of Neuroscience Methods</i> , 2010, 189, 230-232.	2.5	12
49	Crosstalk between mitochondria, calcium channels and actin cytoskeleton modulates noradrenergic activity of locus coeruleus neurons. <i>Journal of Neurochemistry</i> , 2019, 149, 471-487.	3.9	12
50	Topographic distribution of nicotinic acetylcholine receptors in the cristae of a turtle. <i>Hearing Research</i> , 2000, 141, 51-56.	2.0	11
51	Heterogeneous Responses to Antioxidants in Noradrenergic Neurons of the Locus Coeruleus Indicate Differing Susceptibility to Free Radical Content. <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-10.	4.0	10
52	Intrinsic excitability differs between murine hypoglossal and spinal motoneurons. <i>Journal of Neurophysiology</i> , 2016, 115, 2672-2680.	1.8	9
53	Developmental changes in pacemaker currents in mouse locus coeruleus neurons. <i>Brain Research</i> , 2011, 1425, 27-36.	2.2	7
54	Altered intrinsic and synaptic properties of lumbosacral dorsal horn neurons in a mouse model of colitis. <i>Neuroscience</i> , 2017, 362, 152-167.	2.3	7

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55	An Isolated Semi-intact Preparation of the Mouse Vestibular Sensory Epithelium for Electrophysiology and High-resolution Two-photon Microscopy. <i>Journal of Visualized Experiments</i> , 2013, , e50471.	0.3	6
56	Effects of Ageing on the Mitochondrial Genome in Rat Vestibular Organs. <i>Current Aging Science</i> , 2019, 11, 108-117.	1.2	6
57	Advanced Control of Drug Delivery for <i>In Vivo</i> Health Applications via Highly Biocompatible Self-Assembled Organic Nanoparticles. <i>ACS Applied Bio Materials</i> , 2021, 4, 6338-6350.	4.6	6
58	Vestibular System. , 2012, , 661-681.		5
59	Properties of Sodium Currents in Neonatal and Young Adult Mouse Superficial Dorsal Horn Neurons. <i>Molecular Pain</i> , 2015, 11, s12990-015-0014.	2.1	5
60	The Long and Winding Road—Vestibular Efferent Anatomy in Mice. <i>Frontiers in Neural Circuits</i> , 2021, 15, 751850.	2.8	5
61	Vestibular Afferents Innervating the Posterior Ampullae in a Turtle, <i>Pseudemys scripta</i> . <i>Annals of the New York Academy of Sciences</i> , 1992, 656, 914-916.	3.8	4
62	Estimating the Membrane Properties of Vestibular Type II Hair Cells using Continuous-time System Identification. <i>IFAC-PapersOnLine</i> , 2020, 53, 548-553.	0.9	3
63	Hearing threshold levels of Australian coal mine workers: a retrospective cross-sectional study of 64196 audiograms. <i>International Journal of Audiology</i> , 2021, 60, 808-819.	1.7	2
64	Expression and Physiology of Voltage-Gated Sodium Channels in Developing Human Inner Ear. <i>Frontiers in Neuroscience</i> , 2021, 15, 733291.	2.8	2
65	Using indirect inference to identify models of vestibular nerve response in an isolated inner ear. , 2016, , .		1
66	Pioneers in CNS inhibition: 2. Charles Sherrington and John Eccles on inhibition in spinal and supraspinal structures. <i>Brain Research</i> , 2020, 1734, 146540.	2.2	1
67	A Once-Daily High Dose of Intraperitoneal Ascorbate Improves Vestibulo-ocular Reflex Compensation After Unilateral Labyrinthectomy in the Mouse. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2022, 23, 27-34.	1.8	0
68	Vestibulo-Ocular Reflex Short-Term Adaptation Is Halved After Compensation for Unilateral Labyrinthectomy. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2022, , 1.	1.8	0
69	Pre-employment hearing threshold levels of 59,601 Australian male coal miners compared to an otologically normal international male population (ISO7029:2019). <i>International Journal of Audiology</i> , 0, , 1-9.	1.7	0