

Stuart Leigh Johnson

List of Publications by Year in descending order

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39
papers

2,529
citations

236925

25
h-index

315739

38
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41
all docs

41
docs citations

41
times ranked

1577
citing authors

#	ARTICLE	IF	CITATIONS
1	Prestin-Driven Cochlear Amplification Is Not Limited by the Outer Hair Cell Membrane Time Constant. <i>Neuron</i> , 2011, 70, 1143-1154.	8.1	241
2	Developmental changes in the expression of potassium currents of embryonic, neonatal and mature mouse inner hair cells. <i>Journal of Physiology</i> , 2003, 548, 383-400.	2.9	230
3	Sodium and calcium currents shape action potentials in immature mouse inner hair cells. <i>Journal of Physiology</i> , 2003, 552, 743-761.	2.9	173
4	Increase in efficiency and reduction in Ca ²⁺ dependence of exocytosis during development of mouse inner hair cells. <i>Journal of Physiology</i> , 2005, 563, 177-191.	2.9	160
5	Position-dependent patterning of spontaneous action potentials in immature cochlear inner hair cells. <i>Nature Neuroscience</i> , 2011, 14, 711-717.	14.8	147
6	Tonotopic Variation in the Calcium Dependence of Neurotransmitter Release and Vesicle Pool Replenishment at Mammalian Auditory Ribbon Synapses. <i>Journal of Neuroscience</i> , 2008, 28, 7670-7678.	3.6	115
7	Elementary properties of Ca _v 1.3 Ca ²⁺ channels expressed in mouse cochlear inner hair cells. <i>Journal of Physiology</i> , 2010, 588, 187-199.	2.9	110
8	A transiently expressed SK current sustains and modulates action potential activity in immature mouse inner hair cells. <i>Journal of Physiology</i> , 2004, 560, 691-708.	2.9	107
9	Synaptotagmin IV determines the linear Ca ²⁺ dependence of vesicle fusion at auditory ribbon synapses. <i>Nature Neuroscience</i> , 2010, 13, 45-52.	14.8	106
10	Calcium entry into stereocilia drives adaptation of the mechano-electrical transducer current of mammalian cochlear hair cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14918-14923.	7.1	101
11	Biophysical properties of Ca _v 1.3 calcium channels in gerbil inner hair cells. <i>Journal of Physiology</i> , 2008, 586, 1029-1042.	2.9	80
12	Presynaptic maturation in auditory hair cells requires a critical period of sensory-independent spiking activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8720-8725.	7.1	70
13	The Resting Transducer Current Drives Spontaneous Activity in Prehearing Mammalian Cochlear Inner Hair Cells. <i>Journal of Neuroscience</i> , 2012, 32, 10479-10483.	3.6	66
14	<i>Tmc1</i> Point Mutation Affects Ca ²⁺ Sensitivity and Block by Dihydrostreptomycin of the Mechano-electrical Transducer Current of Mouse Outer Hair Cells. <i>Journal of Neuroscience</i> , 2016, 36, 336-349.	3.6	62
15	Connexin-Mediated Signaling in Nonsensory Cells Is Crucial for the Development of Sensory Inner Hair Cells in the Mouse Cochlea. <i>Journal of Neuroscience</i> , 2017, 37, 258-268.	3.6	61
16	Cholinergic efferent synaptic transmission regulates the maturation of auditory hair cell ribbon synapses. <i>Open Biology</i> , 2013, 3, 130163.	3.6	56
17	Mechanotransduction is required for establishing and maintaining mature inner hair cells and regulating efferent innervation. <i>Nature Communications</i> , 2018, 9, 4015.	12.8	54
18	<i>In vivo</i> and <i>in vitro</i> biophysical properties of hair cells from the lateral line and inner ear of developing and adult zebrafish. <i>Journal of Physiology</i> , 2014, 592, 2041-2058.	2.9	53

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19	Functional maturation of the exocytotic machinery at gerbil hair cell ribbon synapses. <i>Journal of Physiology</i> , 2009, 587, 1715-1726.	2.9	50
20	Genetic deletion of SK2 channels in mouse inner hair cells prevents the developmental linearization in the Ca ²⁺ dependence of exocytosis. <i>Journal of Physiology</i> , 2007, 583, 631-646.	2.9	48
21	Burst activity and ultrafast activation kinetics of Ca _v 1.3 Ca ²⁺ channels support presynaptic activity in adult gerbil hair cell ribbon synapses. <i>Journal of Physiology</i> , 2013, 591, 3811-3820.	2.9	48
22	Absence of plastin 1 causes abnormal maintenance of hair cell stereocilia and a moderate form of hearing loss in mice. <i>Human Molecular Genetics</i> , 2015, 24, 37-49.	2.9	47
23	The Coupling between Ca ²⁺ Channels and the Exocytotic Ca ²⁺ Sensor at Hair Cell Ribbon Synapses Varies Tonotopically along the Mature Cochlea. <i>Journal of Neuroscience</i> , 2017, 37, 2471-2484.	3.6	47
24	Membrane capacitance measurement using patch clamp with integrated self-balancing lock-in amplifier. <i>Pflugers Archiv European Journal of Physiology</i> , 2002, 443, 653-663.	2.8	45
25	Membrane properties specialize mammalian inner hair cells for frequency or intensity encoding. <i>ELife</i> , 2015, 4, .	6.0	45
26	Hair cell maturation is differentially regulated along the tonotopic axis of the mammalian cochlea. <i>Journal of Physiology</i> , 2020, 598, 151-170.	2.9	34
27	Absence of Neuropilin-1 Affects Synaptogenesis in Mouse Inner Hair Cells and Causes Profound Hearing Loss. <i>Journal of Neuroscience</i> , 2016, 36, 222-234.	3.6	30
28	Pathophysiological changes in inner hair cell ribbon synapses in the ageing mammalian cochlea. <i>Journal of Physiology</i> , 2020, 598, 4339-4355.	2.9	23
29	Hair Cell Afferent Synapses: Function and Dysfunction. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2019, 9, a033175.	6.2	20
30	A reduction in Ptpqr associated with specific features of the deafness phenotype of the miR-96 mutant mouse diminuendo. <i>European Journal of Neuroscience</i> , 2014, 39, 744-756.	2.6	19
31	Fine Tuning of Ca _v 1.3 Ca ²⁺ Channel Properties in Adult Inner Hair Cells Positioned in the Most Sensitive Region of the Gerbil Cochlea. <i>PLoS ONE</i> , 2014, 9, e113750.	2.5	15
32	The Actin-Binding Proteins Eps8 and Gelsolin Have Complementary Roles in Regulating the Growth and Stability of Mechanosensory Hair Bundles of Mammalian Cochlear Outer Hair Cells. <i>PLoS ONE</i> , 2014, 9, e87331.	2.5	15
33	Elementary properties of Ca ²⁺ channels and their influence on multivesicular release and phase-locking at auditory hair cell ribbon synapses. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 123.	3.7	15
34	MET currents and otoacoustic emissions from mice with a detached tectorial membrane indicate the extracellular matrix regulates Ca ²⁺ near stereocilia. <i>Journal of Physiology</i> , 2021, 599, 2015-2036.	2.9	13
35	Functional Development of Hair Cells in the Mammalian Inner Ear. , 2014, , 155-188.		10
36	Exocytosis in mouse vestibular Type II hair cells shows a high-order Ca ²⁺ dependence that is independent of synaptotagmin-4. <i>Physiological Reports</i> , 2020, 8, e14509.	1.7	4

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37	Current Response in CaV1.3 ^{-/-} Mouse Vestibular and Cochlear Hair Cells. <i>Frontiers in Neuroscience</i> , 2021, 15, 749483.	2.8	4
38	Grxcr1 regulates hair bundle morphogenesis and is required for normal mechano-electrical transduction in mouse cochlear hair cells. <i>PLoS ONE</i> , 2022, 17, e0261530.	2.5	2
39	Electrophysiological Recordings of Voltage-Dependent and Mechanosensitive Currents in Sensory Hair Cells of the Auditory and Vestibular Organs of the Mouse. <i>Neuromethods</i> , 2022, , 221-264.	0.3	1