Jong-Hoon Nam

List of Publications by Year
in descending order

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30 papers	1,101 citations	567281 15 h-index	526287 27 g-index
32 all docs	32 docs citations	32 times ranked	820 citing authors

#	Article	IF	Citations
1	The speed of the hair cell mechanotransducer channel revealed by fluctuation analysis. Journal of General Physiology, 2021, 153, .	1.9	15
2	Interactions between Passive and Active Vibrations in the Organ of Corti InÂVitro. Biophysical Journal, 2020, 119, 314-325.	0.5	7
3	Mechanically facilitated micro-fluid mixing in the organ of Corti. Scientific Reports, 2020, 10, 14847.	3.3	10
4	Multiscale modeling of mechanotransduction in the utricle. Journal of Neurophysiology, 2019, 122, 132-150.	1.8	13
5	Power Dissipation in the Cochlea Can Enhance Frequency Selectivity. Biophysical Journal, 2019, 116, 1362-1375.	0.5	9
6	Probing hair cellâ€™s mechano-transduction using two-tone suppression measurements. Scientific Reports, 2019, 9, 4626.	3.3	13
7	Tonotopy in calcium homeostasis and vulnerability of cochlear hair cells. Hearing Research, 2019, 376, 11-21.	2.0	66
8	Hydrostatic measurement and finite element simulation of the compliance of the organ of Corti complex. Journal of the Acoustical Society of America, 2018, 143, 735-745.	1.1	2
9	An operating principle of the turtle utricle to detect wide dynamic range. Hearing Research, 2018, 360, 31-39.	2.0	5
10	Power dissipation in the organ of Corti enhances frequency selectivity. AIP Conference Proceedings, 2018, , .	0.4	1
11	Two passive mechanical conditions modulate power generation by the outer hair cells. PLoS Computational Biology, 2017, 13, e1005701.	3.2	13
12	A computational study on traveling waves in the gerbil cochlea generated by electrical impulse. AIP Conference Proceedings, 2015, , .	0.4	2
13	Power Dissipation in the Subtectorial Space of the Mammalian Cochlea Is Modulated by Inner Hair Cell Stereocilia. Biophysical Journal, 2015, 108, 479-488.	0.5	33
14	Two-compartment passive frequency domain cochlea model allowing independent fluid coupling to the tectorial and basilar membranes. Journal of the Acoustical Society of America, 2015, 137, 1117-1125.	1.1	20
15	Underestimated Sensitivity of Mammalian Cochlear Hair Cells Due to Splay between Stereociliary Columns. Biophysical Journal, 2015, 108, 2633-2647.	0.5	39
16	Consequences of Location-Dependent Organ of Corti Micro-Mechanics. PLoS ONE, 2015, 10, e0133284.	2.5	29
17	Microstructures in the Organ of Corti Help Outer Hair Cells Form Traveling Waves along the Cochlear Coil. Biophysical Journal, 2014, 106, 2426-2433.	0.5	22
18	Probing Cochlear Resonators Using a New Microchamber. , 2013, , .		0

#	Article	IF	Citations
19	Optimal Electrical Properties of Outer Hair Cells Ensure Cochlear Amplification. PLoS ONE, 2012, 7, e50572.	2.5	40
20	Microchamber System to Experiment Mechanotransduction in the Organ of Corti. , 2012, , .		0
21	A Cochlear Partition Model Incorporating Realistic Electrical and Mechanical Parameters for Outer Hair Cells. , 2011, , .		3
22	Force Transmission in the Organ of Corti Micromachine. Biophysical Journal, 2010, 98, 2813-2821.	0.5	48
23	Calcium Balance and Mechanotransduction in Rat Cochlear Hair Cells. Journal of Neurophysiology, 2010, 104, 18-34.	1.8	93
24	Localization of inner hair cell mechanotransducer channels using high-speed calcium imaging. Nature Neuroscience, 2009, 12, 553-558.	14.8	387
25	The Actions of Calcium on Hair Bundle Mechanics in Mammalian Cochlear Hair Cells. Biophysical Journal, 2008, 94, 2639-2653.	0.5	90
26	Theoretical Conditions for High-Frequency Hair Bundle Oscillations in Auditory Hair Cells. Biophysical Journal, 2008, 95, 4948-4962.	0.5	38
27	A Virtual Hair Cell, I: Addition of Gating Spring Theory into a 3-D Bundle Mechanical Model. Biophysical Journal, 2007, 92, 1918-1928.	0.5	21
28	A Virtual Hair Cell, II: Evaluation of Mechanoelectric Transduction Parameters. Biophysical Journal, 2007, 92, 1929-1937.	0.5	13
29	Mechanical Properties and Consequences of Stereocilia and Extracellular Links in Vestibular Hair Bundles. Biophysical Journal, 2006, 90, 2786-2795.	0.5	30
30	Computational models of hair cell bundle mechanics: III. 3-D utricular bundles. Hearing Research, 2004, 197, 112-130.	2.0	39