Peter Dallos

List of Publications by Year
in descending order

122 papers	8,784 citations	38742 50 h-index	43889 91 g-index
143 all docs	143 docs citations	143 times ranked	2807 citing authors

#	Article	IF	Citations
1	Prestin is the motor protein of cochlear outer hair cells. Nature, 2000, 405, 149-155.	27.8	1,166
2	Intracellular Anions as the Voltage Sensor of Prestin, the Outer Hair Cell Motor Protein. Science, 2001, 292, 2340-2343.	12.6	415
3	Prestin-Based Outer Hair Cell Motility Is Necessary for Mammalian Cochlear Amplification. Neuron, 2008, 58, 333-339.	8.1	333
4	Prestin, a new type of motor protein. Nature Reviews Molecular Cell Biology, 2002, 3, 104-111.	37.0	264
5	Cochlear amplification, outer hair cells and prestin. Current Opinion in Neurobiology, 2008, 18, 370-376.	4.2	240
6	Nature of the motor element in electrokinetic shape changes of cochlear outer hair cells. Nature, 1991, 350, 155-157.	27.8	236
7	Effect of absence of cochlear outer hair cells on behavioural auditory threshold. Nature, 1975, 253, 44-46.	27.8	230
8	Compound action potential (AP) tuning curves. Journal of the Acoustical Society of America, 1976, 59, 591-597.	1.1	228
9	Production of cochlear potentials by inner and outer hair cells. Journal of the Acoustical Society of America, 1976, 60, 510-512.	1.1	218
10	Acetylcholine, Outer Hair Cell Electromotility, and the Cochlear Amplifier. Journal of Neuroscience, 1997, 17, 2212-2226.	3.6	209
11	Low-Frequency Auditory Characteristics: Species Dependence. Journal of the Acoustical Society of America, 1970, 48, 489-499.	1.1	198
12	Neurobiology of cochlear inner and outer hair cells: intracellular recordings. Hearing Research, 1986, 22, 185-198.	2.0	197
13	Prestin, a cochlear motor protein, is defective in non-syndromic hearing loss. Human Molecular Genetics, 2003, 12, 1155-1162.	2.9	173
14	Positive endocochlear potential: Mechanism of production by marginal cells of stria vascularis. Hearing Research, 1987, 29, 117-124.	2.0	170
15	Neural coding in the chick cochlear nucleus. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1990, 166, 721-34.	1.6	163
16	First appearance and development of electromotility in neonatal gerbil outer hair cells. Hearing Research, 1994, 78, 77-90.	2.0	146
17	Mechanoelectrical transduction of adult outer hair cells studied in a gerbil hemicochlea. Nature, 2004, 429, 766-770.	27.8	126
18	Carcinoembryonic antigen-related cell adhesion molecule 16 interacts with Î±-tectorin and is mutated in autosomal dominant hearing loss (DFNA4). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4218-4223.	7.1	123

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19	Prestin and the cochlear amplifier. Journal of Physiology, 2006, 576, 37-42.	2.9	116
20	Stiffness of the Gerbil Basilar Membrane: Radial and Longitudinal Variations. Journal of Neurophysiology, 2004, 91, 474-488.	1.8	115
21	Overview: Cochlear Neurobiology. Springer Handbook of Auditory Research, 1996, , 1-43.	0.7	95
22	Analysis of the Oligomeric Structure of the Motor Protein Prestin. Journal of Biological Chemistry, 2006, 281, 19916-19924.	3.4	94
23	Cochlear mechanics, nonlinearities, and cochlear potentials. Journal of the Acoustical Society of America, 1974, 55, 597-605.	1.1	93
24	Prestin topology: localization of protein epitopes in relation to the plasma membrane. NeuroReport, 2001, 12, 1929-1935.	1.2	93
25	Developmental alterations in the frequency map of the mammalian cochlea. Nature, 1989, 341, 147-149.	27.8	92
26	Outer hair cell electromotility: The sensitivity and vulnerability of the DC component. Hearing Research, 1991, 52, 288-304.	2.0	92
27	Effects of membrane potential and tension on prestin, the outer hair cell lateral membrane motor protein. Journal of Physiology, 2001, 531, 661-666.	2.9	92
28	Inputâ€"output functions of cochlear whole-nerve action potentials: Interpretation in terms of one population of neurons. Journal of the Acoustical Society of America, 1976, 59, 143-147.	1.1	91
29	Some electrical circuit properties of the organ of Corti. I. Analysis without reactive elements. Hearing Research, 1983, 12, 89-119.	2.0	91
30	Bioelectric Correlates of Kanamycin Intoxication. International Journal of Audiology, 1974, 13, 277-289.	1.7	85
31	Tectorial Membrane Stiffness Gradients. Biophysical Journal, 2007, 93, 2265-2276.	0.5	84
32	Prestin and the Dynamic Stiffness of Cochlear Outer Hair Cells. Journal of Neuroscience, 2003, 23, 9089-9096.	3.6	79
33	Modification of DIF summating potential components by stimulus biasing. Journal of the Acoustical Society of America, 1974, 56, 562-570.	1.1	77
34	The role of outer hair cell motility in cochlear tuning. Current Opinion in Neurobiology, 1991, 1, 215-220.	4.2	77
35	Effects of cyclic nucleotides on the function of prestin. Journal of Physiology, 2005, 563, 483-496.	2.9	71
36	The C-terminus of prestin influences nonlinear capacitance and plasma membrane targeting. Journal of Cell Science, 2005, 118, 2987-2996.	2.0	69

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37	Intercellular communication in the supporting cells of the organ of Corti. Hearing Research, 1983, 9, 317-326.	2.0	68
38	Developmental changes in frequency mapping of the gerbil cochlea: Comparison of two cochlear locations. Hearing Research, 1988, 32, 93-96.	2.0	68
39	Synchronous responses of the primary auditory fibers to the onset of tone burst and their relation to compound action potentials. Brain Research, 1978, 155, 169-175.	2.2	67
40	Prestin, the Motor Protein of Outer Hair Cells. Audiology and Neuro-Otology, 2002, 7, 9-12.	1.3	66
41	Nâ€linked glycosylation sites of the motor protein prestin: effects on membrane targeting and electrophysiological function. Journal of Neurochemistry, 2004, 89, 928-938.	3.9	63
42	Psychophysical tuning curves and auditory thresholds after hair cell damage in the chinchilla. Journal of the Acoustical Society of America, 1979, 66, 370-378.	1.1	61
43	Mechanoelectric Transduction of Adult Inner Hair Cells. Journal of Neuroscience, 2007, 27, 1006-1014.	3.6	61
44	Loss of the Tectorial Membrane Protein CEACAM16 Enhances Spontaneous, Stimulus-Frequency, and Transiently Evoked Otoacoustic Emissions. Journal of Neuroscience, 2014, 34, 10325-10338.	3.6	61
45	Fast cochlear amplification with slow outer hair cells. Hearing Research, 2006, 214, 45-67.	2.0	59
46	Some electrical circuit properties of the organ of Corti. II. Analysis including reactive elements. Hearing Research, 1984, 14, 281-291.	2.0	58
47	Direct Visualization of Organ of Corti Kinematics in a Hemicochlea. Journal of Neurophysiology, 1999, 82, 2798-2807.	1.8	58
48	Study of the Acoustic Reflex in Human Beings. I. Dynamic Characteristics. Journal of the Acoustical Society of America, 1972, 52, 1168-1180.	1.1	56
49	Effect of acetylcholine and GABA on the transfer function of electromotility in isolated outer hair cells. Hearing Research, 1996, 95, 87-99.	2.0	56
50	Psychophysical tuning curves of chinchillas. Journal of the Acoustical Society of America, 1976, 60, 1146-1150.	1.1	55
51	COCHLEAR POTENTIALS AND COCHLEAR MECHANICS. , 1973, , 335-376.		55
52	Using the Cochlear Microphonic as a Tool to Evaluate Cochlear Function in Mouse Models of Hearing. JARO - Journal of the Association for Research in Otolaryngology, 2011, 12, 113-125.	1.8	54
53	Properties of Voltage-Dependent Somatic Stiffness of Cochlear Outer Hair Cells. JARO - Journal of the Association for Research in Otolaryngology, 2000, 1, 64-81.	1.8	50
54	Combination Tone 2flâ^'fh in Microphonic Potentials. Journal of the Acoustical Society of America, 1969, 46, 1437-1444.	1.1	47

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55	Isolation of cochlear inner hair cells. Hearing Research, 2000, 145, 156-160.	2.0	46
56	Latency of Wholeâ€Nerve Action Potentials: Influence of Hairâ€Cell Normalcy. Journal of the Acoustical Society of America, 1972, 52, 1678-1686.	1.1	45
57	Travel Time in the Cochlea and Its Determination from Cochlearâ€Microphonic Data. Journal of the Acoustical Society of America, 1971, 49, 1140-1143.	1.1	44
58	Analog of twoâ€tone suppression in whole nerve responses. Journal of the Acoustical Society of America, 1977, 62, 1048-1051.	1.1	43
59	Nonlinearities in cochlear receptor potentials and their origins. Journal of the Acoustical Society of America, 1989, 86, 1790-1796.	1.1	43
60	On the Limitations of Cochlearâ€Microphonic Measurements. Journal of the Acoustical Society of America, 1971, 49, 1144-1154.	1.1	42
61	Basilar Membrane Vibration in the Gerbil Hemicochlea. Journal of Neurophysiology, 1998, 79, 2255-2264.	1.8	41
62	Interaction between CFTR and prestin (SLC26A5). Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1029-1040.	2.6	41
63	Evidence That Prestin Has at Least Two Voltage-dependent Steps. Journal of Biological Chemistry, 2011, 286, 2297-2307.	3.4	39
64	Organ of Corti Kinematics. JARO - Journal of the Association for Research in Otolaryngology, 2003, 4, 416-421.	1.8	38
65	Prestin-based outer hair cell electromotility in knockin mice does not appear to adjust the operating point of a cilia-based amplifier. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12542-12547.	7.1	38
66	Two-tone interactions in the cochlear microphonic. Hearing Research, 1982, 8, 29-48.	2.0	37
67	Development of Acetylcholine-Induced Responses in Neonatal Gerbil Outer Hair Cells. Journal of Neurophysiology, 1999, 81, 1162-1170.	1.8	36
68	Neural response to very low-frequency sound in the avian cochlear nucleus. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1989, 166, 83-95.	1.6	35
69	Acetylcholine Controls the Gain of the Voltage-to-Movement Converter in Isolated Outer Hair Cells. Acta Oto-Laryngologica, 1993, 113, 326-329.	0.9	35
70	Functional Regulation of the SLC26-Family Protein Prestin by Calcium/Calmodulin. Journal of Neuroscience, 2014, 34, 1325-1332.	3.6	35
71	Distribution Pattern of Cochlear Harmonics. Journal of the Acoustical Society of America, 1969, 45, 37-46.	1.1	33
72	The V499G/Y501H Mutation Impairs Fast Motor Kinetics of Prestin and Has Significance for Defining Functional Independence of Individual Prestin Subunits. Journal of Biological Chemistry, 2013, 288, 2452-2463.	3.4	33

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73	Distribution Pattern of Cochlear Combination Tones. Journal of the Acoustical Society of America, 1969, 45, 58-71.	1.1	30
74	Development of the Gerbil Inner Ear Observed in the Hemicochlea. JARO - Journal of the Association for Research in Otolaryngology, 2000, 1, 195-210.	1.8	30
75	Cyclic GMP and outer hair cell electromotility. Hearing Research, 1999, 137, 29-42.	2.0	29
76	Increased Spontaneous Otoacoustic Emissions in Mice with a Detached Tectorial Membrane. JARO - Journal of the Association for Research in Otolaryngology, 2016, 17, 81-88.	1.8	24
77	Intracellular recordings from supporting cells in the guineaâ€pig cochlea: AC potentials. Journal of the Acoustical Society of America, 1989, 86, 1013-1032.	1.1	23
78	Impedance matching by the combined effects of the outer and middle ear. Journal of the Acoustical Society of America, 1979, 66, 599-602.	1.1	22
79	Effects of electrical polarization on inner hair cell receptor potentials. Journal of the Acoustical Society of America, 1990, 87, 1636-1647.	1.1	21
80	Auditory filter shapes in the chinchilla. Journal of the Acoustical Society of America, 1986, 80, 765-775.	1.1	20
81	On the Derivative Relationship between Stapes Movement and Cochlear Microphonic. Journal of the Acoustical Society of America, 1972, 52, 1263-1265.	1.1	19
82	Frequency difference limens in normal and sensorineural hearing impaired chinchillas. Journal of the Acoustical Society of America, 1989, 85, 1302-1313.	1.1	19
83	Development of acetylcholine receptors in cultured outer hair cells. Hearing Research, 2001, 162, 113-125.	2.0	19
84	Intracellular calcium and outer hair cell electromotility. Brain Research, 2001, 922, 65-70.	2.2	19
85	Spatial Patterns of Cochlear Difference Tones. Journal of the Acoustical Society of America, 1971, 49, 1818-1830.	1.1	18
86	Influence of Directâ€Current Polarization of the Cochlear Partition on the Summating Potentials. Journal of the Acoustical Society of America, 1972, 52, 542-552.	1.1	18
87	EHD4 and CDH23 Are Interacting Partners in Cochlear Hair Cells. Journal of Biological Chemistry, 2009, 284, 20121-20129.	3.4	18
88	Expression of potassium channels in gerbil outer hair cells during development does not require neural induction. Developmental Brain Research, 1997, 103, 95-97.	1.7	17
89	Electrical correlates of mechanical events in the cochlea. International Journal of Audiology, 1975, 14, 408-418.	1.7	16
90	On the Negative Potential within the Organ of Corti. Journal of the Acoustical Society of America, 1968, 44, 818-819.	1.1	15

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91	A Chimera Analysis of<i>Prestin</i>Knock-Out Mice. Journal of Neuroscience, 2009, 29, 12000-12008.	3.6	15
92	Marshalin, a microtubule minus-end binding protein, regulates cytoskeletal structure in the organ of Corti. Biology Open, 2013, 2, 1192-1202.	1.2	15
93	Spontaneous Otoacoustic Emissions in<i>Tecta^{Y1870C/+}</i>Mice Reflect Changes in Cochlear Amplification and How It Is Controlled by the Tectorial Membrane. ENeuro, 2018, 5, ENEURO.0314-18.2018.	1.9	14
94	Glucose transporter 5 is undetectable in outer hair cells and does not contribute to cochlear amplification. Brain Research, 2008, 1210, 20-28.	2.2	13
95	Prestin-Dependence of Outer Hair Cell Survival and Partial Rescue of Outer Hair Cell Loss in PrestinV499G/Y501H Knockin Mice. PLoS ONE, 2015, 10, e0145428.	2.5	13
96	Identifying components of the hair-cell interactome involved in cochlear amplification. BMC Genomics, 2009, 10, 127.	2.8	12
97	Hyposmotic Swelling Induces Magnitude and Gain Change in the Electromotile Performance of Isolated Outer Hair Cells. Acta Oto-Laryngologica, 1997, 117, 222-225.	0.9	11
98	Interaction between the motor protein prestin and the transporter protein VAPA. Biochimica Et Biophysica Acta - Molecular Cell Research, 2010, 1803, 796-804.	4.1	9
99	Identification of Differentially Expressed cDNA Clones from Gerbil Cochlear Outer Hair Cells. Audiology and Neuro-Otology, 2002, 7, 277-288.	1.3	8
100	Comments on â€œCorrespondence between Cochlear Microphonic Sensitivity and Behavioral Threshold in the Catâ€•[G. R. Price, J. Acoust. Soc. Amer. 49, 1899â€“1901 (1971)]. Journal of the Acoustical Society of America, 1971, 50, 1554-1554.	1.1	6
101	Neurobiology of Cochlear Hair Cells. , 1992, , 3-17.		6
102	BIOPHYSICS OF THE COCHLEA. , 1978, , 125-162.		6
103	Dissecting the electromechanical coupling mechanism of the motorprotein prestin. Communicative and Integrative Biology, 2011, 4, 450-453.	1.4	5
104	Harmonic Components in Hair Cell Responses. , 1986, , 73-80.		5
105	Cochlear Microphonic Correlates of Cubic Difference Tones. Communication and Cybernetics, 1974, , 312-322.	0.1	5
106	Dissecting the electromechanical coupling mechanism of the motor-protein prestin. Communicative and Integrative Biology, 2011, 4, 450-3.	1.4	5
107	High-Frequency Outer Hair Cell Motility: Corrections and Addendum. Science, 1995, 268, 1420-1421.	12.6	5
108	The Effects of dc Current Polarization on Cochlear Harmonics. Journal of the Acoustical Society of America, 1972, 52, 1725-1728.	1.1	4

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109	Re-examination of avian cochlear potentials. Nature, 1976, 262, 599-601.	27.8	4
110	The Nonlinearity of Outer Hair Cell Motility: Implications for Cochlear Physiology and Pathology. Lecture Notes in Biomathematics, 1990, , 61-68.	0.3	4
111	Pixels as ROIs (PAR): A Less-Biased and Statistically Powerful Approach for Gleaning Functional Information from Image Stacks. PLoS ONE, 2013, 8, e69047.	2.5	3
112	MODEL OF OUTER HAIR CELL STIFFNESS AND MOTILITY CHANGE. , 2000, , .		2
113	THE COCHLEAR AMPLIFIER: IS IT HAIR BUNDLE MOTION OF OUTER HAIR CELLS?. , 2006, , .		1
114	Fractional Distortion Pairs in the Cochlea. Journal of the Acoustical Society of America, 1972, 52, 530-535.	1.1	0
115	The Role of Phase-Locked Auditory-Nerve Discharges in Pitch Perception. Journal of the Acoustical Society of America, 1974, 55, 467-467.	1.1	0
116	Cochlear Microphonic Interference Effects in the Guinea Pig. Journal of the Acoustical Society of America, 1974, 55, 459-459.	1.1	0
117	Responses of Cochlear Hair Cells. Acta Oto-Laryngologica, 1985, 99, 496-497.	0.9	0
118	The quantitative evaluation of a confocal surgical microscope. , 1992, , .		0
119	The Relationship Among Plasmic Membrane Electron Transport System, Motor Protein Prestin and Deafness. Free Radical Biology and Medicine, 2010, 49, S160.	2.9	0
120	Introduction to â€œGood Vibrationsâ€: A Special Issue to celebrate the 50th anniversary of the Nobel Prize to Georg von BÃ©kÃ©sy. Hearing Research, 2012, 293, 1-2.	2.0	0
121	Examining the role of the tectorial membrane in otoacoustic emission generation. AIP Conference Proceedings, 2015, , .	0.4	0
122	A MICROMECHANICAL MODEL FOR FAST COCHLEAR AMPLIFICATION WITH SLOW OUTER HAIR CELLS. , 2006, , .		0