Peter S Steyger

List of Publications by Year
in descending order

97 papers	4,447 citations	117625 34 h-index	110387 64 g-index
103 all docs	103 docs citations	103 times ranked	4109 citing authors

#	Article	IF	Citations
1	An integrated view of cisplatin-induced nephrotoxicity and ototoxicity. Toxicology Letters, 2015, 237, 219-227.	0.8	353
2	Platinum-Induced Ototoxicity in Children: A Consensus Review on Mechanisms, Predisposition, and Protection, Including a New International Society of Pediatric Oncology Boston Ototoxicity Scale. Journal of Clinical Oncology, 2012, 30, 2408-2417.	1.6	298
3	Functional Hair Cell Mechanotransducer Channels Are Required for Aminoglycoside Ototoxicity. PLoS ONE, 2011, 6, e22347.	2.5	207
4	Aminoglycoside-Induced Cochleotoxicity: A Review. Frontiers in Cellular Neuroscience, 2017, 11, 308.	3.7	206
5	Delivery of therapeutics to the inner ear: The challenge of the blood-labyrinth barrier. Science Translational Medicine, 2019, 11, .	12.4	174
6	Tumour tropism and anti-cancer efficacy of polymer-based doxorubicin prodrugs in the treatment of subcutaneous murine B16F10 melanoma. British Journal of Cancer, 1994, 70, 636-641.	6.4	150
7	Trafficking of Systemic Fluorescent Gentamicin into the Cochlea and Hair Cells. JARO - Journal of the Association for Research in Otolaryngology, 2009, 10, 205-219.	1.8	131
8	Mitotic and Nonmitotic Hair Cell Regeneration in the Bullfrog Vestibular Otolith Organs. Annals of the New York Academy of Sciences, 1996, 781, 59-70.	3.8	126
9	Capsaicin stimulation of the cochlea and electric stimulation of the trigeminal ganglion mediate vascular permeability in cochlear and vertebro-basilar arteries: a potential cause of inner ear dysfunction in headache. Neuroscience, 2001, 103, 189-201.	2.3	121
10	TRPV1 regulators mediate gentamicin penetration of cultured kidney cells. Hearing Research, 2005, 204, 170-182.	2.0	109
11	Co-localization of the vanilloid capsaicin receptor and substance P in sensory nerve fibers innervating cochlear and vertebro-basilar arteries. Neuroscience, 2004, 124, 919-927.	2.3	100
12	Aminoglycoside- and Cisplatin-Induced Ototoxicity: Mechanisms and Otoprotective Strategies. Cold Spring Harbor Perspectives in Medicine, 2019, 9, a033548.	6.2	100
13	TRPV4 enhances the cellular uptake of aminoglycoside antibiotics. Journal of Cell Science, 2008, 121, 2871-2879.	2.0	99
14	Vanilloid Receptors in Hearing: Altered Cochlear Sensitivity by Vanilloids and Expression of TRPV1 in the Organ of Corti. Journal of Neurophysiology, 2003, 90, 444-455.	1.8	94
15	Endotoxemia-mediated inflammation potentiates aminoglycoside-induced ototoxicity. Science Translational Medicine, 2015, 7, 298ra118.	12.4	94
16	Uptake of fluorescent gentamicin by vertebrate sensory cells in vivo. Hearing Research, 2006, 213, 64-78.	2.0	93
17	Uptake of Gentamicin by Bullfrog Saccular Hair Cells in vitro. JARO - Journal of the Association for Research in Otolaryngology, 2003, 4, 565-578.	1.8	91
18	Extracellular Signal-regulated Protein Kinase Activation Is Required for the Anti-hypertrophic Effect of Atrial Natriuretic Factor in Neonatal Rat Ventricular Myocytes. Journal of Biological Chemistry, 1999, 274, 24858-24864.	3.4	84

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19	The cumulative effects of intravenous antibiotic treatments on hearing in patients with cystic fibrosis. Journal of Cystic Fibrosis, 2017, 16, 401-409.	0.7	81
20	Cytoplasmic and intra-nuclear binding of gentamicin does not require endocytosis. Hearing Research, 2005, 204, 156-169.	2.0	78
21	Tubulin and microtubules in cochlear hair cells: Comparative immunocytochemistry and ultrastructure. Hearing Research, 1989, 42, 1-16.	2.0	77
22	Systemic aminoglycosides are trafficked via endolymph into cochlear hair cells. Scientific Reports, 2011, 1, 159.	3.3	76
23	TRPA1-Mediated Accumulation of Aminoglycosides in Mouse Cochlear Outer Hair Cells. JARO - Journal of the Association for Research in Otolaryngology, 2011, 12, 729-740.	1.8	69
24	Myosin Ĩ² Is Located at Tip Link Anchors in Vestibular Hair Bundles. Journal of Neuroscience, 1998, 18, 4603-4615.	3.6	65
25	Calbindin and parvalbumin are early markers of non-mitotically regenerating hair cells in the bullfrog vestibular otolith organs. International Journal of Developmental Neuroscience, 1997, 15, 417-432.	1.6	63
26	A systemic gentamicin pathway across the stria vascularis. Hearing Research, 2008, 235, 114-124.	2.0	62
27	Intracellular mechanisms of aminoglycoside-induced cytotoxicity. Integrative Biology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.3	58
28	Synergistic ototoxicity due to noise exposure and aminoglycoside antibiotics. Noise and Health, 2009, 11, 26.	0.5	57
29	Sodium-Glucose Transporter-2 (SGLT2; SLC5A2) Enhances Cellular Uptake of Aminoglycosides. PLoS ONE, 2014, 9, e108941.	2.5	55
30	Clinical Pharmacogenetics Implementation Consortium Guideline for the Use of Aminoglycosides Based on MTâ€RNR1 Genotype. Clinical Pharmacology and Therapeutics, 2022, 111, 366-372.	4.7	50
31	Identification of Cisplatin-Binding Proteins Using Agarose Conjugates of Platinum Compounds. PLoS ONE, 2013, 8, e66220.	2.5	49
32	Organization of microtubules in cochlear hair cells. Journal of Electron Microscopy Technique, 1990, 15, 261-279.	1.1	46
33	Metabolic imaging of the organ of corti â€" A window on cochlea bioenergetics. Brain Research, 2009, 1277, 37-41.	2.2	43
34	Inflammation up-regulates cochlear expression of TRPV1 to potentiate drug-induced hearing loss. Science Advances, 2019, 5, eaaw1836.	10.3	43
35	CLIMP-63 is a gentamicin-binding protein that is involved in drug-induced cytotoxicity. Cell Death and Disease, 2010, 1, e102-e102.	6.3	37
36	Cell type-specific reduction of Ĩ² tubulin isotypes synthesized in the developing gerbil organ of Corti. Journal of Neurocytology, 2003, 32, 185-197.	1.5	36

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37	Acoustic Trauma Increases Cochlear and Hair Cell Uptake of Gentamicin. PLoS ONE, 2011, 6, e19130.	2.5	32
38	Dimethyl Sulfoxide (DMSO) Exacerbates Cisplatin-induced Sensory Hair Cell Death in Zebrafish (Danio) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.5	32
39	Mechanisms of Aminoglycoside- and Cisplatin-Induced Ototoxicity. American Journal of Audiology, 2021, 30, 887-900.	1.2	32
40	Systemic Delivery and Biodistribution of Cisplatin in Vivo. Molecular Pharmaceutics, 2016, 13, 2677-2682.	4.6	31
41	Intracellular distributions and putative functions of calcium-binding proteins in the bullfrog vestibular otolith organs. Hearing Research, 1997, 103, 85-100.	2.0	30
42	Effect of sepsis and systemic inflammatory response syndrome on neonatal hearing screening outcomes following gentamicin exposure. International Journal of Pediatric Otorhinolaryngology, 2015, 79, 1915-1919.	1.0	29
43	Aminoglycoside-Induced Hair Cell Death of Inner Ear Organs Causes Functional Deficits in Adult Zebrafish (Danio rerio). PLoS ONE, 2013, 8, e58755.	2.5	28
44	Calreticulin Binds to Gentamicin and Reduces Drug-Induced Ototoxicity. Toxicological Sciences, 2011, 124, 378-387.	3.1	26
45	Closure of supporting cell scar formations requires dynamic actin mechanisms. Hearing Research, 2007, 232, 1-19.	2.0	24
46	Expression of Trk A receptors in the mammalian inner ear. Hearing Research, 2004, 187, 1-11.	2.0	23
47	Competitive antagonism of fluorescent gentamicin uptake in the cochlea. Hearing Research, 2010, 268, 250-259.	2.0	23
48	Visualization of newt aragonitic otoconial matrices using transmission electron microscopy. Hearing Research, 1995, 92, 184-191.	2.0	22
49	Potentiation of Chemical Ototoxicity by Noise. Seminars in Hearing, 2009, 30, 038-046.	1.2	22
50	Potential Mechanisms Underlying Inflammation-Enhanced Aminoglycoside-Induced Cochleotoxicity. Frontiers in Cellular Neuroscience, 2017, 11, 362.	3.7	21
51	Evidence-Based Modification of Intratympanic Gentamicin Injections in Patients With Intractable Vertigo. Otology and Neurotology, 2010, 31, 642-648.	1.3	21
52	Mechanisms of Ototoxicity and Otoprotection. Otolaryngologic Clinics of North America, 2021, 54, 1101-1115.	1.1	21
53	Local mechanisms for loud sound-enhanced aminoglycoside entry into outer hair cells. Frontiers in Cellular Neuroscience, 2015, 9, 130.	3.7	20
54	Preferential Cochleotoxicity of Cisplatin. Frontiers in Neuroscience, 2021, 15, 695268.	2.8	20

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55	The morphogenic features of otoconia during larval development of Cynops pyrrhogaster, the Japanese red-bellied newt. Hearing Research, 1995, 84, 61-71.	2.0	19
56	Infection-Mediated Vasoactive Peptides Modulate Cochlear Uptake of Fluorescent Gentamicin. Audiology and Neuro-Otology, 2011, 16, 347-358.	1.3	19
57	Uptake of gentamicin by vestibular efferent neurons and superior olivary complex after transtympanic administration in guinea pigs. Hearing Research, 2012, 283, 169-179.	2.0	18
58	Effect of gentamicin and levels of ambient sound on hearing screening outcomes in the neonatal intensive care unit: A pilot study. International Journal of Pediatric Otorhinolaryngology, 2017, 97, 42-50.	1.0	18
59	Monitoring neonates for ototoxicity. International Journal of Audiology, 2018, 57, S54-S61.	1.7	18
60	A novel long intergenic non-coding RNA, Nostrill, regulates iNOS gene transcription and neurotoxicity in microglia. Journal of Neuroinflammation, 2021, 18, 16.	7.2	18
61	Effect of Systemic Lipopolysaccharideâ€Induced Inflammation on Cytokine Levels in the Murine Cochlea: A Pilot Study. Otolaryngology - Head and Neck Surgery, 2013, 149, 301-303.	1.9	17
62	Uptake of Fluorescent Gentamicin by Peripheral Vestibular Cells after Systemic Administration. PLoS ONE, 2015, 10, e0120612.	2.5	16
63	Detecting Novel Ototoxins and Potentiation of Ototoxicity by Disease Settings. Frontiers in Neurology, 2021, 12, 725566.	2.4	14
64	Bumetanide Hyperpolarizes Madinâ€“Darby Canine Kidney Cells and Enhances Cellular Gentamicin Uptake by Elevating Cytosolic Ca2+ Thus Facilitating Intermediate Conductance Ca2+-Activated Potassium Channels. Cell Biochemistry and Biophysics, 2013, 65, 381-398.	1.8	13
65	Temporal and spatial distribution of gentamicin in the peripheral vestibular system after transtympanic administration in guinea pigs. Hearing Research, 2013, 298, 49-59.	2.0	13
66	Mechanisms Involved in Ototoxicity. Seminars in Hearing, 2011, 32, 217-228.	1.2	12
67	Co-existence of tyrosine hydroxylase and calcitonin gene-related peptide in cochlear spiral modiolar artery of guinea pigs. Hearing Research, 2001, 155, 152-160.	2.0	11
68	Comparison of gentamicin distribution in the inner ear following administration via the endolymphatic sac or round window. Laryngoscope, 2010, 120, 2054-2060.	2.0	11
69	Editorial: Cellular Mechanisms of Ototoxicity. Frontiers in Cellular Neuroscience, 2018, 12, 75.	3.7	11
70	Intra-cochlear trafficking of aminoglycosides. Communicative and Integrative Biology, 2008, 1, 140-142.	1.4	10
71	Atomic force microscope observations of otoconia in the newt. Hearing Research, 1995, 85, 115-121.	2.0	8
72	Clinical Considerations for Routine Auditory and Vestibular Monitoring in Patients With Cystic Fibrosis. American Journal of Audiology, 2021, 30, 800-809.	1.2	8

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73	Assessing Confocal Microscopy Systems for Purchase. Methods, 1999, 18, 435-446.	3.8	7
74	Preclinical and Clinical Studies of Unrelieved Aural Fullness following Intratympanic Gentamicin Injection in Patients with Intractable MÃ©niÃ¨re's Disease. Audiology and Neuro-Otology, 2013, 18, 297-306.	1.3	7
75	Supporting Equity and Inclusion of Deaf and Hard-of-Hearing Individuals in Professional Organizations. Frontiers in Education, 2021, 6, .	2.1	7
76	Live cell imaging of a fluorescent gentamicin conjugate. Natural Product Communications, 2012, 7, 317-20.	0.5	6
77	Live Cell Imaging of a Fluorescent Gentamicin Conjugate. Natural Product Communications, 2012, 7, 1934578X1200700.	0.5	5
78	Rhodamine analogs for molecular ruler applications. Dyes and Pigments, 2016, 126, 46-53.	3.7	5
79	Diverse Kir Expression Contributes to Distinct Bimodal Distribution of Resting Potentials and Vasotone Responses of Arterioles. PLoS ONE, 2015, 10, e0125266.	2.5	5
80	Community network for deaf scientists. Science, 2017, 356, 386-387.	12.6	4
81	An evaluation of US patent 2015065565 (A1) for a new class of SGLT2 inhibitors for treatment 1 of type II diabetes mellitus. Expert Opinion on Therapeutic Patents, 2015, 25, 1349-52.	5.0	4
82	CACHD1-deficient mice exhibit hearing and balance deficits associated with a disruption of calcium homeostasis in the inner ear. Hearing Research, 2021, 409, 108327.	2.0	3
83	Structural Abnormalities in Inner Hair Cells Following Kanamycin-Induced Outer Hair Cell Loss. Lecture Notes in Biomathematics, 1990, , 10-17.	0.3	3
84	Is Auditory Synaptopathy a Result of Drug-Induced Hearing Loss?. Hearing Journal, 2017, 70, 8-9.	0.1	1
85	Synergistic Ototoxicity of Noise and Chemical Ototoxins. Perspectives on Hearing and Hearing Disorders Research and Research Diagnostics, 2008, 12, 48.	0.4	1
86	Translating In Vitro Data into Auditory Protection. Hearing Journal, 2014, 67, 20.	0.1	0
87	Perilymphatic Gentamicin Trafficking through Basolateral Channels May Underlie Enhanced Ototoxicity by Noise-Induced Threshold Shifts. Otolaryngology - Head and Neck Surgery, 2014, 151, P222-P222.	1.9	0
88	Novel Aminoglycoside Antibiotics Show Reduced Ototoxicity Risk. Hearing Journal, 2015, 68, 32.	0.1	0
89	Hearing Loss Risk Factors for Cystic Fibrosis Patients. Hearing Journal, 2016, 69, 8-9.	0.1	0
90	From Screen to Trial. Hearing Journal, 2018, 71, 8.	0.1	0

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91	Simplified, automated methods for assessing pixel intensities of fluorescently-tagged drugs in cells. PLoS ONE, 2018, 13, e0206628.	2.5	0
92	Genetic Contributions to Age-Related Hearing Loss. Hearing Journal, 2019, 72, 10,13.	0.1	0
93	TRAFFICKING OF AMINOGLYCOSIDES INTO ENDOLYMPH IN VIVO. , 2009, , .		0
94	Early Education of the Deaf. Science, 1998, 279, 1611-1611.	12.6	0
95	Inflammation Potentiates Cochlear Uptake of Ototoxins and Drug-Induced Hearing Loss. , 2018, , 133-147.		0
96	Reader response: Neurologic complications of coronavirus infections. Neurology, 2020, 95, 324-324.	1.1	0
97	Scientists with Hearing Loss Changing Perspectives in STEMM. Acoustics Today, 2019, 15, 66-70.	1.0	0