

Peter S Steyger

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

3,402
citations

31
h-index

57
g-index

102
ext. papers

3,942
ext. citations

4.7
avg, IF

5.61
L-index

#	Paper	IF	Citations
87	An integrated view of cisplatin-induced nephrotoxicity and ototoxicity. <i>Toxicology Letters</i> , 2015 , 237, 219-27	4.4	256
86	Platinum-induced ototoxicity in children: a consensus review on mechanisms, predisposition, and protection, including a new International Society of Pediatric Oncology Boston ototoxicity scale. <i>Journal of Clinical Oncology</i> , 2012 , 30, 2408-17	2.2	229
85	Functional hair cell mechanotransducer channels are required for aminoglycoside ototoxicity. <i>PLoS ONE</i> , 2011 , 6, e22347	3.7	168
84	Aminoglycoside-Induced Cochleotoxicity: A Review. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 308	6.1	141
83	Tumour tropism and anti-cancer efficacy of polymer-based doxorubicin prodrugs in the treatment of subcutaneous murine B16F10 melanoma. <i>British Journal of Cancer</i> , 1994 , 70, 636-41	8.7	138
82	Trafficking of systemic fluorescent gentamicin into the cochlea and hair cells. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2009 , 10, 205-19	3.3	116
81	Mitotic and nonmitotic hair cell regeneration in the bullfrog vestibular otolith organs. <i>Annals of the New York Academy of Sciences</i> , 1996 , 781, 59-70	6.5	110
80	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. <i>Neuroscience</i> , 2001 , 103, 189-201	3.9	96
79	TRPV1 regulators mediate gentamicin penetration of cultured kidney cells. <i>Hearing Research</i> , 2005 , 204, 170-82	3.9	89
78	Uptake of gentamicin by bullfrog saccular hair cells in vitro. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2003 , 4, 565-78	3.3	85
77	Co-localization of the vanilloid capsaicin receptor and substance P in sensory nerve fibers innervating cochlear and vertebro-basilar arteries. <i>Neuroscience</i> , 2004 , 124, 919-27	3.9	84
76	Vanilloid receptors in hearing: altered cochlear sensitivity by vanilloids and expression of TRPV1 in the organ of corti. <i>Journal of Neurophysiology</i> , 2003 , 90, 444-55	3.2	83
75	Uptake of fluorescent gentamicin by vertebrate sensory cells in vivo. <i>Hearing Research</i> , 2006 , 213, 64-78	3.9	82
74	Delivery of therapeutics to the inner ear: The challenge of the blood-labyrinth barrier. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	76
73	TRPV4 enhances the cellular uptake of aminoglycoside antibiotics. <i>Journal of Cell Science</i> , 2008 , 121, 2871-9	5.3	75
72	Extracellular signal-regulated protein kinase activation is required for the anti-hypertrophic effect of atrial natriuretic factor in neonatal rat ventricular myocytes. <i>Journal of Biological Chemistry</i> , 1999 , 274, 24858-64	5.4	75
71	Cytoplasmic and intra-nuclear binding of gentamicin does not require endocytosis. <i>Hearing Research</i> , 2005 , 204, 156-69	3.9	72

70	Tubulin and microtubules in cochlear hair cells: comparative immunocytochemistry and ultrastructure. <i>Hearing Research</i> , 1989 , 42, 1-16	3.9	72
69	Systemic aminoglycosides are trafficked via endolymph into cochlear hair cells. <i>Scientific Reports</i> , 2011 , 1, 159	4.9	65
68	Calbindin and parvalbumin are early markers of non-mitotically regenerating hair cells in the bullfrog vestibular otolith organs. <i>International Journal of Developmental Neuroscience</i> , 1997 , 15, 417-32 ^{2.7}		60
67	Myosin Ibeta is located at tip link anchors in vestibular hair bundles. <i>Journal of Neuroscience</i> , 1998 , 18, 4603-15	6.6	60
66	Endotoxemia-mediated inflammation potentiates aminoglycoside-induced ototoxicity. <i>Science Translational Medicine</i> , 2015 , 7, 298ra118	17.5	58
65	TRPA1-mediated accumulation of aminoglycosides in mouse cochlear outer hair cells. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2011 , 12, 729-40	3.3	58
64	A systemic gentamicin pathway across the stria vascularis. <i>Hearing Research</i> , 2008 , 235, 114-24	3.9	55
63	Synergistic ototoxicity due to noise exposure and aminoglycoside antibiotics. <i>Noise and Health</i> , 2009 , 11, 26-32	0.9	55
62	The cumulative effects of intravenous antibiotic treatments on hearing in patients with cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2017 , 16, 401-409	4.1	53
61	Intracellular mechanisms of aminoglycoside-induced cytotoxicity. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 879-86	3.7	48
60	Aminoglycoside- and Cisplatin-Induced Ototoxicity: Mechanisms and Otoprotective Strategies. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2019 , 9,	5.4	45
59	Organization of microtubules in cochlear hair cells. <i>Journal of Electron Microscopy Technique</i> , 1990 , 15, 261-79		41
58	Identification of cisplatin-binding proteins using agarose conjugates of platinum compounds. <i>PLoS ONE</i> , 2013 , 8, e66220	3.7	39
57	CLIMP-63 is a gentamicin-binding protein that is involved in drug-induced cytotoxicity. <i>Cell Death and Disease</i> , 2010 , 1, e102	9.8	31
56	Cell type-specific reduction of beta tubulin isotypes synthesized in the developing gerbil organ of Corti. <i>Journal of Neurocytology</i> , 2003 , 32, 185-97		31
55	Acoustic trauma increases cochlear and hair cell uptake of gentamicin. <i>PLoS ONE</i> , 2011 , 6, e19130	3.7	30
54	Intracellular distributions and putative functions of calcium-binding proteins in the bullfrog vestibular otolith organs. <i>Hearing Research</i> , 1997 , 103, 85-100	3.9	30
53	Effect of sepsis and systemic inflammatory response syndrome on neonatal hearing screening outcomes following gentamicin exposure. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2015 , 79, 1915-9	1.7	26

52	Inflammation up-regulates cochlear expression of TRPV1 to potentiate drug-induced hearing loss. <i>Science Advances</i> , 2019 , 5, eaaw1836	14.3	24
51	Dimethyl sulfoxide (DMSO) exacerbates cisplatin-induced sensory hair cell death in zebrafish (<i>Danio rerio</i>). <i>PLoS ONE</i> , 2013 , 8, e55359	3.7	23
50	Closure of supporting cell scar formations requires dynamic actin mechanisms. <i>Hearing Research</i> , 2007 , 232, 1-19	3.9	23
49	Competitive antagonism of fluorescent gentamicin uptake in the cochlea. <i>Hearing Research</i> , 2010 , 268, 250-9	3.9	22
48	Calreticulin binds to gentamicin and reduces drug-induced ototoxicity. <i>Toxicological Sciences</i> , 2011 , 124, 378-87	4.4	22
47	Aminoglycoside-induced hair cell death of inner ear organs causes functional deficits in adult zebrafish (<i>Danio rerio</i>). <i>PLoS ONE</i> , 2013 , 8, e58755	3.7	22
46	Sodium-glucose transporter-2 (SGLT2; SLC5A2) enhances cellular uptake of aminoglycosides. <i>PLoS ONE</i> , 2014 , 9, e108941	3.7	22
45	Metabolic imaging of the organ of corti--a window on cochlea bioenergetics. <i>Brain Research</i> , 2009 , 1277, 37-41	3.7	21
44	Visualization of new aragonitic otoconial matrices using transmission electron microscopy. <i>Hearing Research</i> , 1995 , 92, 184-91	3.9	20
43	Evidence-based modification of intratympanic gentamicin injections in patients with intractable vertigo. <i>Otology and Neurotology</i> , 2010 , 31, 642-8	2.6	20
42	Systemic Delivery and Biodistribution of Cisplatin in Vivo. <i>Molecular Pharmaceutics</i> , 2016 , 13, 2677-82	5.6	19
41	Local mechanisms for loud sound-enhanced aminoglycoside entry into outer hair cells. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 130	6.1	19
40	Expression of Trk A receptors in the mammalian inner ear. <i>Hearing Research</i> , 2004 , 187, 1-11	3.9	19
39	The morphogenic features of otoconia during larval development of <i>Cynops pyrrhogaster</i> , the Japanese red-bellied newt. <i>Hearing Research</i> , 1995 , 84, 61-71	3.9	18
38	Clinical Pharmacogenetics Implementation Consortium Guideline for the Use of Aminoglycosides Based on MT-RNR1 Genotype. <i>Clinical Pharmacology and Therapeutics</i> , 2021 ,	6.1	18
37	Infection-mediated vasoactive peptides modulate cochlear uptake of fluorescent gentamicin. <i>Audiology and Neuro-Otology</i> , 2011 , 16, 347-58	2.2	17
36	Potential of Chemical Ototoxicity by Noise. <i>Seminars in Hearing</i> , 2009 , 30, 38-46	2	17
35	Potential Mechanisms Underlying Inflammation-Enhanced Aminoglycoside-Induced Cochleotoxicity. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 362	6.1	16

34	Uptake of gentamicin by vestibular efferent neurons and superior olivary complex after transtympanic administration in guinea pigs. <i>Hearing Research</i> , 2012 , 283, 169-79	3.9	16
33	Effect of gentamicin and levels of ambient sound on hearing screening outcomes in the neonatal intensive care unit: A pilot study. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2017 , 97, 42-50	1.7	13
32	Effect of systemic lipopolysaccharide-induced inflammation on cytokine levels in the murine cochlea: a pilot study. <i>Otolaryngology - Head and Neck Surgery</i> , 2013 , 149, 301-3	5.5	13
31	Temporal and spatial distribution of gentamicin in the peripheral vestibular system after transtympanic administration in guinea pigs. <i>Hearing Research</i> , 2013 , 298, 49-59	3.9	12
30	Monitoring neonates for ototoxicity. <i>International Journal of Audiology</i> , 2018 , 57, S41-S48	2.6	12
29	Comparison of gentamicin distribution in the inner ear following administration via the endolymphatic sac or round window. <i>Laryngoscope</i> , 2010 , 120, 2054-60	3.6	11
28	Co-existence of tyrosine hydroxylase and calcitonin gene-related peptide in cochlear spiral modiolar artery of guinea pigs. <i>Hearing Research</i> , 2001 , 155, 152-60	3.9	11
27	Uptake of fluorescent gentamicin by peripheral vestibular cells after systemic administration. <i>PLoS ONE</i> , 2015 , 10, e0120612	3.7	11
26	Intra-cochlear trafficking of aminoglycosides. <i>Communicative and Integrative Biology</i> , 2008 , 1, 140-2	1.7	10
25	Bumetanide hyperpolarizes madin-darby canine kidney cells and enhances cellular gentamicin uptake by elevating cytosolic Ca(2+) thus facilitating intermediate conductance Ca(2+)-activated potassium channels. <i>Cell Biochemistry and Biophysics</i> , 2013 , 65, 381-98	3.2	9
24	Mechanisms of Aminoglycoside- and Cisplatin-Induced Ototoxicity. <i>American Journal of Audiology</i> , 2021 , 30, 887-900	1.8	9
23	Atomic force microscope observations of otoconia in the newt. <i>Hearing Research</i> , 1995 , 85, 115-21	3.9	8
22	Preferential Cochleotoxicity of Cisplatin. <i>Frontiers in Neuroscience</i> , 2021 , 15, 695268	5.1	7
21	Preclinical and clinical studies of unrelieved aural fullness following intratympanic gentamicin injection in patients with intractable Ménière's disease. <i>Audiology and Neuro-Otology</i> , 2013 , 18, 297-306	2.2	6
20	Assessing confocal microscopy systems for purchase. <i>Methods</i> , 1999 , 18, 435-46	4.6	6
19	Live cell imaging of a fluorescent gentamicin conjugate. <i>Natural Product Communications</i> , 2012 , 7, 317-20.	2.9	6
18	A novel long intergenic non-coding RNA, Nostrill, regulates iNOS gene transcription and neurotoxicity in microglia. <i>Journal of Neuroinflammation</i> , 2021 , 18, 16	10.1	6
17	Mechanisms Involved in Ototoxicity. <i>Seminars in Hearing</i> , 2011 , 32, 217-228	2	5

16	Clinical Considerations for Routine Auditory and Vestibular Monitoring in Patients With Cystic Fibrosis. <i>American Journal of Audiology</i> , 2021 , 30, 800-809	1.8	5
15	Rhodamine analogues for molecular ruler applications. <i>Dyes and Pigments</i> , 2016 , 126, 46-53	4.6	4
14	An evaluation of US patent 2015065565 (A1) for a new class of SGLT2 inhibitors for treatment 1 of type II diabetes mellitus. <i>Expert Opinion on Therapeutic Patents</i> , 2015 , 25, 1349-52	6.8	4
13	Diverse Kir expression contributes to distinct bimodal distribution of resting potentials and vasotone responses of arterioles. <i>PLoS ONE</i> , 2015 , 10, e0125266	3.7	3
12	Structural Abnormalities in Inner Hair Cells Following Kanamycin-Induced Outer Hair Cell Loss. <i>Lecture Notes in Biomathematics</i> , 1990 , 10-17		3
11	Detecting Novel Ototoxins and Potentiation of Ototoxicity by Disease Settings. <i>Frontiers in Neurology</i> , 2021 , 12, 725566	4.1	2
10	CACHD1-deficient mice exhibit hearing and balance deficits associated with a disruption of calcium homeostasis in the inner ear. <i>Hearing Research</i> , 2021 , 409, 108327	3.9	2
9	Community network for deaf scientists. <i>Science</i> , 2017 , 356, 386-387	33.3	1
8	Live Cell Imaging of a Fluorescent Gentamicin Conjugate. <i>Natural Product Communications</i> , 2012 , 7, 1934-1938	45.8	1
7	Mechanisms of Ototoxicity and Otoprotection. <i>Otolaryngologic Clinics of North America</i> , 2021 , 54, 1101-1115	12	1
6	Synergistic Ototoxicity of Noise and Chemical Ototoxins. <i>Perspectives on Hearing and Hearing Disorders Research and Research Diagnostics</i> , 2008 , 12, 48		1
5	Scientists with Hearing Loss Changing Perspectives in STEMM. <i>Acoustics Today</i> , 2019 , 15, 66-70	0	
4	Inflammation Potentiates Cochlear Uptake of Ototoxins and Drug-Induced Hearing Loss 2018 , 133-147		
3	Reader response: Neurologic complications of coronavirus infections. <i>Neurology</i> , 2020 , 95, 324	6.5	
2	Early education of the deaf. <i>Science</i> , 1998 , 279, 1617	33.3	
1	Simplified, automated methods for assessing pixel intensities of fluorescently-tagged drugs in cells. <i>PLoS ONE</i> , 2018 , 13, e0206628	3.7	