

# Andrew K Wise

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

2,864  
citations

172386

29  
h-index

189801

50  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2590  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmacokinetics and biodistribution of supraparticle-delivered neurotrophin 3 in the guinea pig cochlea. <i>Journal of Controlled Release</i> , 2022, 342, 295-307.	4.8	8
2	Effects of chronic implantation and long-term stimulation of a cochlear implant in the partial hearing cat model. <i>Hearing Research</i> , 2022, 426, 108470.	0.9	3
3	Platinum dissolution and tissue response following long-term electrical stimulation at high charge densities. <i>Journal of Neural Engineering</i> , 2021, 18, 036021.	1.8	27
4	Viral-mediated transduction of auditory neurons with opsins for optical and hybrid activation. <i>Scientific Reports</i> , 2021, 11, 11229.	1.6	10
5	A radiolabeled drug tracing method to study neurotrophin-3 retention and distribution in the cochlea after nano-based local delivery. <i>MethodsX</i> , 2020, 7, 101078.	0.7	5
6	Optical stimulation of neural tissue. <i>Healthcare Technology Letters</i> , 2020, 7, 58-65.	1.9	25
7	Combined optogenetic and electrical stimulation of auditory neurons increases effective stimulation frequency—an in vitro study. <i>Journal of Neural Engineering</i> , 2020, 17, 016069.	1.8	21
8	Hybrid optogenetic and electrical stimulation for greater spatial resolution and temporal fidelity of cochlear activation. <i>Journal of Neural Engineering</i> , 2020, 17, 056046.	1.8	21
9	Engineering Biocoatings To Prolong Drug Release from Supraparticles. <i>Biomacromolecules</i> , 2019, 20, 3425-3434.	2.6	20
10	Biological Considerations of Optical Interfaces for Neuromodulation. <i>Advanced Optical Materials</i> , 2019, 7, 1900385.	3.6	18
11	Neurotrophin gene augmentation by electrotransfer to improve cochlear implant hearing outcomes. <i>Hearing Research</i> , 2019, 380, 137-149.	0.9	20
12	New molecular therapies for the treatment of hearing loss. , 2019, 200, 190-209.		49
13	Pharmacokinetics and tissue distribution of neurotrophin 3 after intracochlear delivery. <i>Journal of Controlled Release</i> , 2019, 299, 53-63.	4.8	8
14	Chronic intracochlear electrical stimulation at high charge densities results in platinum dissolution but not neural loss or functional changes <i>in vivo</i> . <i>Journal of Neural Engineering</i> , 2019, 16, 026009.	1.8	28
15	Comparing perilymph proteomes across species. <i>Laryngoscope</i> , 2018, 128, E47-E52.	1.1	11
16	Gel-Mediated Electrospray Assembly of Silica Supraparticles for Sustained Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31019-31031.	4.0	35
17	Heterogeneity of Purkinje cell simple spike—complex spike interactions: zebrin—and nonzebrin-related variations. <i>Journal of Physiology</i> , 2017, 595, 5341-5357.	1.3	34
18	Evaluation of focused multipolar stimulation for cochlear implants: a preclinical safety study. <i>Journal of Neural Engineering</i> , 2017, 14, 046020.	1.8	11

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19	The dynamic relationship between cerebellar Purkinje cell simple spikes and the spikelet number of complex spikes. <i>Journal of Physiology</i> , 2017, 595, 283-299.	1.3	29
20	Challenges for the application of optical stimulation in the cochlea for the study and treatment of hearing loss. <i>Expert Opinion on Biological Therapy</i> , 2017, 17, 213-223.	1.4	19
21	Structural and Ultrastructural Changes to Type I Spiral Ganglion Neurons and Schwann Cells in the Deafened Guinea Pig Cochlea. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2017, 18, 751-769.	0.9	24
22	The Auditory System. <i>Series on Bioengineering and Biomedical Engineering</i> , 2017, , 167-191.	0.1	0
23	Understanding the cochlear implant environment by mapping perilymph proteomes from different species. , 2016, 2016, 5237-5240.		1
24	Second spatial derivative analysis of cortical surface potentials recorded in cat primary auditory cortex using thin film surface arrays: Comparisons with multi-unit data. <i>Journal of Neuroscience Methods</i> , 2016, 267, 14-20.	1.3	8
25	Improved Auditory Nerve Survival with Nanoengineered Supraparticles for Neurotrophin Delivery into the Deafened Cochlea. <i>PLoS ONE</i> , 2016, 11, e0164867.	1.1	59
26	Electrophysiological channel interactions using focused multipolar stimulation for cochlear implants. <i>Journal of Neural Engineering</i> , 2015, 12, 066005.	1.8	16
27	Infrared neural stimulation fails to evoke neural activity in the deaf guinea pig cochlea. <i>Hearing Research</i> , 2015, 324, 46-53.	0.9	58
28	Evaluation of focused multipolar stimulation for cochlear implants in long-term deafened cats. <i>Journal of Neural Engineering</i> , 2015, 12, 036003.	1.8	28
29	Cell and Gene Therapies for the Treatment of Hearing Disorders. , 2015, , 949-964.		0
30	Hair Cell Regeneration after ATOH1 Gene Therapy in the Cochlea of Profoundly Deaf Adult Guinea Pigs. <i>PLoS ONE</i> , 2014, 9, e102077.	1.1	71
31	Drug Delivery: Mesoporous Silica Supraparticles for Sustained Inner Ear Drug Delivery (Small 21/2014). <i>Small</i> , 2014, 10, 4243-4243.	5.2	27
32	Evaluation of focused multipolar stimulation for cochlear implants in acutely deafened cats. <i>Journal of Neural Engineering</i> , 2014, 11, 065003.	1.8	29
33	Treating hearing disorders with cell and gene therapy. <i>Journal of Neural Engineering</i> , 2014, 11, 065001.	1.8	13
34	Measurement of Forces at the Tip of a Cochlear Implant During Insertion. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1177-1186.	2.5	22
35	A partial hearing animal model for chronic electro-acoustic stimulation. <i>Journal of Neural Engineering</i> , 2014, 11, 046008.	1.8	14
36	Gene Therapy Boosts the Bionic Ear. <i>Science Translational Medicine</i> , 2014, 6, 233fs17.	5.8	6

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37	Electroacoustic Stimulation: Now and into the Future. <i>BioMed Research International</i> , 2014, 2014, 1-17.	0.9	29
38	Mold-Templated Inorganic-Organic Hybrid Supraparticles for Codelivery of Drugs. <i>Biomacromolecules</i> , 2014, 15, 4146-4151.	2.6	18
39	Effects of deafness and cochlear implant use on temporal response characteristics in cat primary auditory cortex. <i>Hearing Research</i> , 2014, 315, 1-9.	0.9	18
40	Mesoporous Silica Supraparticles for Sustained Inner Ear Drug Delivery. <i>Small</i> , 2014, 10, 4244-4248.	5.2	41
41	Viability of Long-Term Gene Therapy in the Cochlea. <i>Scientific Reports</i> , 2014, 4, 4733.	1.6	15
42	Chronic Electrical Stimulation with a Suprachoroidal Retinal Prosthesis: A Preclinical Safety and Efficacy Study. <i>PLoS ONE</i> , 2014, 9, e97182.	1.1	44
43	Systematic Regional Variations in Purkinje Cell Spiking Patterns. <i>PLoS ONE</i> , 2014, 9, e105633.	1.1	84
44	Cochlear implantation for chronic electrical stimulation in the mouse. <i>Hearing Research</i> , 2013, 306, 37-45.	0.9	21
45	Chronic neurotrophin delivery promotes ectopic neurite growth from the spiral ganglion of deafened cochleae without compromising the spatial selectivity of cochlear implants. <i>Journal of Comparative Neurology</i> , 2013, 521, 2818-2832.	0.9	46
46	Impact of Morphometry, Myelination and Synaptic Current Strength on Spike Conduction in Human and Cat Spiral Ganglion Neurons. <i>PLoS ONE</i> , 2013, 8, e79256.	1.1	57
47	Anti-apoptotic gene Bcl2 is required for stapes development and hearing. <i>Cell Death and Disease</i> , 2012, 3, e362-e362.	2.7	9
48	Drug delivery to the inner ear. <i>Journal of Neural Engineering</i> , 2012, 9, 065002.	1.8	21
49	Neurotrophin Gene Therapy for Sustained Neural Preservation after Deafness. <i>PLoS ONE</i> , 2012, 7, e52338.	1.1	46
50	Vitamin D-deficient diet rescues hearing loss in Klotho mice. <i>Hearing Research</i> , 2011, 275, 105-109.	0.9	25
51	An improved cochlear implant electrode array for use in experimental studies. <i>Hearing Research</i> , 2011, 277, 20-27.	0.9	42
52	The effect of deafness duration on neurotrophin gene therapy for spiral ganglion neuron protection. <i>Hearing Research</i> , 2011, 278, 69-76.	0.9	59
53	Spiral ganglion neuron survival and function in the deafened cochlea following chronic neurotrophic treatment. <i>Hearing Research</i> , 2011, 282, 303-313.	0.9	65
54	Enhanced Auditory Neuron Survival Following Cell-Based BDNF Treatment in the Deaf Guinea Pig. <i>PLoS ONE</i> , 2011, 6, e18733.	1.1	74

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55	Influenza Virus Induces Bacterial and Nonbacterial Otitis Media. <i>Journal of Infectious Diseases</i> , 2011, 204, 1857-1865.	1.9	47
56	Combining Cell-Based Therapies and Neural Prostheses to Promote Neural Survival. <i>Neurotherapeutics</i> , 2011, 8, 774-787.	2.1	68
57	Mechanisms of synchronous activity in cerebellar Purkinje cells. <i>Journal of Physiology</i> , 2010, 588, 2373-2390.	1.3	88
58	Effects of Localized Neurotrophin Gene Expression on Spiral Ganglion Neuron Resprouting in the Deafened Cochlea. <i>Molecular Therapy</i> , 2010, 18, 1111-1122.	3.7	109
59	Polypyrrole-coated electrodes for the delivery of charge and neurotrophins to cochlear neurons. <i>Biomaterials</i> , 2009, 30, 2614-2624.	5.7	277
60	Novel drug delivery systems for inner ear protection and regeneration after hearing loss. <i>Expert Opinion on Drug Delivery</i> , 2008, 5, 1059-1076.	2.4	45
61	Neurotrophic Factors and Neural Prostheses: Potential Clinical Applications Based Upon Findings in the Auditory System. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 1138-1148.	2.5	80
62	Deafness alters auditory nerve fibre responses to cochlear implant stimulation. <i>European Journal of Neuroscience</i> , 2007, 26, 510-522.	1.2	56
63	Resprouting and survival of guinea pig cochlear neurons in response to the administration of the neurotrophins brain-derived neurotrophic factor and neurotrophin-3. <i>Journal of Comparative Neurology</i> , 2005, 487, 147-165.	0.9	206
64	A single dose of neurotrophin-3 to the cochlea surrounds spiral ganglion neurons and provides trophic support. <i>Hearing Research</i> , 2005, 204, 37-47.	0.9	56
65	Tracing neurotrophin-3 diffusion and uptake in the guinea pig cochlea. <i>Hearing Research</i> , 2004, 198, 25-35.	0.9	29
66	Cochlear immunocytochemistry—a new technique based on gelatin embedding. <i>Journal of Neuroscience Methods</i> , 2003, 129, 81-86.	1.3	23
67	The Effect of Muscle Contraction on Kinaesthesia. <i>Advances in Experimental Medicine and Biology</i> , 2002, 508, 87-94.	0.8	6
68	The role of muscle receptors in the detection of movements. <i>Progress in Neurobiology</i> , 2000, 60, 85-96.	2.8	157
69	The responses of muscle spindles to small, slow movements in passive muscle and during fusimotor activity. <i>Brain Research</i> , 1999, 821, 87-94.	1.1	34
70	A new strategy for controlling the level of activation in artificially stimulated muscle. <i>IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society</i> , 1999, 7, 167-173.	1.4	14
71	Muscle history, fusimotor activity and the human stretch reflex. <i>Journal of Physiology</i> , 1998, 513, 927-934.	1.3	73