Tien-Chen Liu

List of Publications by Year
in descending order

107	2,232	236925 25	265206 42
papers	citations	h-index	g-index

110	110	110	2285
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deep neck infection: Analysis of 185 cases. Head and Neck, 2004, 26, 854-860.	2.0	305
2	Tinnitus and tinnitus disorder: Theoretical and operational definitions (an international) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (m	1.4	150
3	Deep neck infection in diabetic patients: Comparison of clinical picture and outcomes with nondiabetic patients. Otolaryngology - Head and Neck Surgery, 2005, 132, 943-947.	1.9	112
4	Association of Central Obesity With the Severity and Audiometric Configurations of Ageâ€related Hearing Impairment. Obesity, 2009, 17, 1796-1801.	3.0	78
5	Association of Tinnitus and Other Cochlear Disorders With a History of Migraines. JAMA Otolaryngology - Head and Neck Surgery, 2018, 144, 712.	2.2	57
6	Optimal Graft Thickness for Different Sizes of Tympanic Membrane Perforation in Cartilage Myringoplasty: A Finite Element Analysis. Laryngoscope, 2007, 117, 725-730.	2.0	52
7	Threeâ€Dimensional Reconstruction and Modeling of Middle Ear Biomechanics by Highâ€Resolution Computed Tomography and Finite Element Analysis. Laryngoscope, 2006, 116, 711-716.	2.0	50
8	Diet-Induced Obesity Exacerbates Auditory Degeneration via Hypoxia, Inflammation, and Apoptosis Signaling Pathways in CD/1 Mice. PLoS ONE, 2013, 8, e60730.	2.5	50
9	Identifying Children With Poor Cochlear Implantation Outcomes Using Massively Parallel Sequencing. Medicine (United States), 2015, 94, e1073.	1.0	50
10	Aging Effects on the Activation of the Auditory Cortex during Binaural Speech Listening in White Noise: An fMRI Study. Audiology and Neuro-Otology, 2007, 12, 285-294.	1.3	49
11	Association of plasma adiponectin levels with hearing thresholds in adults. Clinical Endocrinology, 2011, 75, 614-620.	2.4	46
12	Changes in bacteriology of discharging ears. Journal of Laryngology and Otology, 2002, 116, 686-689.	0.8	44
13	Genetic characteristics in children with cochlear implants and the corresponding auditory performance. Laryngoscope, 2011, 121, 1287-1293.	2.0	42
14	Community-acquired Methicillin-resistant Staphylococcus Aureus Infections in Discharging Ears. Acta Oto-Laryngologica, 2002, 122, 827-830.	0.9	40
15	Association of Obstructive Sleep Apnea and Auditory Dysfunctions in Older Subjects. Otolaryngology - Head and Neck Surgery, 2011, 144, 114-119.	1.9	40
16	Etiologic and Audiologic Characteristics of Patients With Pediatric-Onset Unilateral and Asymmetric Sensorineural Hearing Loss. JAMA Otolaryngology - Head and Neck Surgery, 2017, 143, 912.	2.2	38
17	Expression of COXâ€2 and NMDA receptor genes at the cochlea and midbrain in salicylateâ€induced tinnitus. Laryngoscope, 2011, 121, 361-364.	2.0	37
18	Diffusion Tensor Imaging of the Subcortical Auditory Tract in Subjects with Long-Term Unilateral Sensorineural Hearing Loss. Audiology and Neuro-Otology, 2009, 14, 248-253.	1.3	33

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19	Plasma reactive oxygen species levels are correlated with severity of age-related hearing impairment in humans. Neurobiology of Aging, 2012, 33, 1920-1926.	3.1	32
20	Incidence of Vestibular Schwannoma in Taiwan from 2001 to 2012: A Population-Based National Health Insurance Study. Annals of Otology, Rhinology and Laryngology, 2018, 127, 694-697.	1.1	31
21	Genetic Epidemiology and Clinical Features of Hereditary Hearing Impairment in the Taiwanese Population. Genes, 2019, 10, 772.	2.4	31
22	Sphenopalatine Ganglion Block Before Removal of Nasal Packing. Laryngoscope, 2003, 113, 1423-1424.	2.0	30
23	Involvement of nitric oxide generation in noise-induced temporary threshold shift in guinea pigs. Hearing Research, 2005, 203, 94-100.	2.0	29
24	Prognostic Factors of Sudden Sensorineural Hearing Loss in Diabetic Patients. Diabetes Care, 2004, 27, 2560-2561.	8.6	28
25	Assessment of complications due to intratympanic injections. World Journal of Otorhinolaryngology - Head and Neck Surgery, 2016, 2, 13-16.	1.6	28
26	Brain activation in patients with idiopathic hyperacusis. American Journal of Otolaryngology - Head and Neck Medicine and Surgery, 2009, 30, 432-434.	1.3	26
27	Proposal for a New Diagnosis for Cochlear Migraine. JAMA Otolaryngology - Head and Neck Surgery, 2018, 144, 185.	2.2	26
28	Long-Term Language Levels and Reading Skills in Mandarin-Speaking Prelingually Deaf Children with Cochlear Implants. Audiology and Neuro-Otology, 2011, 16, 359-380.	1.3	25
29	The grainyheadâ€like 2 gene (GRHL2) single nucleotide polymorphism is not associated with ageâ€related hearing impairment in Han Chinese. Laryngoscope, 2011, 121, 1303-1307.	2.0	23
30	Behavior problems in children with cochlear implants. International Journal of Pediatric Otorhinolaryngology, 2015, 79, 648-653.	1.0	23
31	Effects of limiting the number of active electrodes on mandarin tone perception in young children using cochlear implants. Acta Oto-Laryngologica, 2004, 124, 1149-1154.	0.9	22
32	Measurement of hearing aid outcome in the elderly: Comparison between young and old elderly. Otolaryngology - Head and Neck Surgery, 2008, 138, 730-734.	1.9	22
33	Using cluster analysis to classify audiogram shapes. International Journal of Audiology, 2010, 49, 628-633.	1.7	20
34	Timing of cochlear implantation in auditory neuropathy patients with <scp>OTOF</scp> mutations: Our experience with 10 patients. Clinical Otolaryngology, 2018, 43, 352-357.	1.2	20
35	Changes of Hair Cell Stereocilia and Threshold Shift after Acoustic Trauma in Guinea Pigs: Comparison between Inner and Outer Hair Cells. Orl, 2003, 65, 266-274.	1.1	19
36	Biomechanical Modeling and Design Optimization of Cartilage Myringoplasty Using Finite Element Analysis. Audiology and Neuro-Otology, 2006, 11, 380-388.	1.3	19

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37	COMPUTER AIDED THREE-DIMENSIONAL RECONSTRUCTION AND MODELING OF MIDDLE EAR BIOMECHANICS BY HIGH-RESOLUTION COMPUTED TOMOGRAPHY AND FINITE ELEMENT ANALYSIS. Biomedical Engineering - Applications, Basis and Communications, 2006, 18, 214-221.	0.6	19
38	Intellectual Ability of Mandarin-Speaking Children Using Cochlear Implants. Audiology and Neuro-Otology, 2008, 13, 302-308.	1.3	19
39	Registration of Micro-Computed Tomography and Histological Images of the Guinea Pig Cochlea to Construct an Ear Model Using an Iterative Closest Point Algorithm. Annals of Biomedical Engineering, 2010, 38, 1719-1727.	2.5	19
40	Timing of Surgical Intervention with Cochlear Implant in Patients with Large Vestibular Aqueduct Syndrome. PLoS ONE, 2013, 8, e81568.	2.5	18
41	A novel missense variant in the nuclear localization signal of POU4F3 causes autosomal dominant non-syndromic hearing loss. Scientific Reports, 2017, 7, 7551.	3.3	18
42	Prediction Model for Audiological Outcomes in Patients With GJB2 Mutations. Ear and Hearing, 2020, 41, 143-149.	2.1	16
43	Contribution of adiponectin and its type 1 receptor to age-related hearing impairment. Neurobiology of Aging, 2015, 36, 2085-2093.	3.1	15
44	Tone Detection in Mandarin-speaking Hearing-impaired Subjects. International Journal of Audiology, 2000, 39, 106-109.	1.7	14
45	The effects of masking on the activation of auditory-associated cortex during speech listening in white noise. Acta Oto-Laryngologica, 2006, 126, 916-920.	0.9	14
46	Changes in activation of the auditory cortex following long-term amplification: an fMRI study. Acta Oto-Laryngologica, 2006, 126, 1275-1280.	0.9	13
47	Academic achievements and classroom performance in Mandarin-speaking prelingually deafened school children with cochlear implants. International Journal of Pediatric Otorhinolaryngology, 2013, 77, 1474-1480.	1.0	12
48	Acute Effects of Alcohol on Auditory Thresholds and Distortion Product Otoacoustic Emissions in Humans. Acta Oto-Laryngologica, 2003, 123, 936-940.	0.9	11
49	Diagnostic Value of Combining Bilateral Electrocochleography Results for Unilateral MÃ©niÃ¨reâ€™s Disease. Audiology and Neuro-Otology, 2008, 13, 365-369.	1.3	11
50	Modeling sound transmission of human middle ear and its clinical applications using finite element analysis. Kaohsiung Journal of Medical Sciences, 2013, 29, 133-139.	1.9	11
51	Development and Preliminary Verification of a Mandarin-Based Hearing-Aid Fitting Strategy. PLoS ONE, 2013, 8, e80831.	2.5	11
52	Endoscopic versus microscopic management of congenital ossicular chain anomalies: our experiences with 29 patients. Clinical Otolaryngology, 2017, 42, 944-950.	1.2	11
53	Hormone replacement therapy for chronic tinnitus in menopausal women: Our experience with 13 cases. Clinical Otolaryngology, 2017, 42, 1366-1369.	1.2	11
54	Higher prevalence and increased severity of sleepâ€disordered breathing in male patients with chronic tinnitus: Our experience with 173 cases. Clinical Otolaryngology, 2018, 43, 722-725.	1.2	11

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55	Can Nutritional Intervention for Obesity and Comorbidities Slow Down Age-Related Hearing Impairment?. Nutrients, 2019, 11, 1668.	4.1	11
56	Aging and External Ear Resonance: Envejecimiento y la resonancia del conducto auditivo externo. International Journal of Audiology, 2000, 39, 235-237.	1.7	10
57	Hemispheric Difference in Activation Patterns of Human Auditory-Associated Cortex: An fMRI Study. Orl, 2005, 67, 242-246.	1.1	10
58	A novel opto-electromagnetic actuator coupled to the tympanic membrane. Journal of Biomechanics, 2008, 41, 3515-3518.	2.1	10
59	Environmental Sounds Recognition in Children with Cochlear Implants. PLoS ONE, 2013, 8, e66100.	2.5	10
60	Effects of Tumor Necrosis Factor Blocker on Salicylate-Induced Tinnitus in Mice. International Tinnitus Journal, 2017, 21, 24-29.	0.2	10
61	Osteoma of the External Ear Canal. Otology and Neurotology, 2003, 24, 960.	1.3	9
62	Computer Aided Modeling of Human Mastoid Cavity Biomechanics Using Finite Element Analysis. Eurasip Journal on Advances in Signal Processing, 2009, 2010, .	1.7	9
63	Association of Cadherin23 Single Nucleotide Polymorphism with Age-Related Hearing Impairment in Han Chinese. Otolaryngology - Head and Neck Surgery, 2012, 147, 531-534.	1.9	9
64	Effects of tea drinking on auditory functions in aged subjects. Journal of Nutrition, Health and Aging, 2012, 16, 252-256.	3.3	9
65	Speech perception and communication ability over the telephone by Mandarin-speaking children with cochlear implants. International Journal of Pediatric Otorhinolaryngology, 2013, 77, 1295-1302.	1.0	9
66	Consumption of betel quid contributes to sensorineural hearing impairment through arecoline-induced oxidative stress. Scientific Reports, 2019, 9, 14554.	3.3	9
67	Targeted Next-Generation Sequencing Facilitates Genetic Diagnosis and Provides Novel Pathogenetic Insights into Deafness with Enlarged Vestibular Aqueduct. Journal of Molecular Diagnostics, 2019, 21, 138-148.	2.8	9
68	Cochlear Implantation Outcomes in Patients with Auditory Neuropathy Spectrum Disorder of Genetic and Non-Genetic Etiologies: A Multicenter Study. Biomedicines, 2022, 10, 1523.	3.2	9
69	Sinonasal Adenocarcinoma: Clinical Study of Nine Cases in Taiwan. Acta Oto-Laryngologica, 2002, 122, 887-891.	0.9	8
70	Waist circumference is associated with pitch pattern sequence score in older male adults. International Journal of Audiology, 2012, 51, 920-925.	1.7	8
71	The development of a non-surgical direct drive hearing device with a wireless actuator coupled to the tympanic membrane. Applied Acoustics, 2013, 74, 1511-1518.	3.3	8
72	Using endoscopy to locate the round window membrane during cochlear implantation: Our experience with 25 patients. Clinical Otolaryngology, 2018, 43, 357-362.	1.2	8

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73	Effect of Acoustic Trauma on Cytochrome Oxidase Activity in Stria vascularis. Orl, 1998, 60, 314-317.	1.1	7
74	Extended bandwidth nonlinear frequency compression in Mandarin-speaking hearing-aid users. Journal of the Formosan Medical Association, 2018, 117, 109-116.	1.7	7
75	An integrative approach for pediatric auditory neuropathy spectrum disorders: revisiting etiologies and exploring the prognostic utility of auditory steady-state response. Scientific Reports, 2020, 10, 9816.	3.3	7
76	Facial nerve schwannoma. Otolaryngology - Head and Neck Surgery, 2009, 141, 146-147.	1.9	6
77	Prognostic determinants of hearing outcomes in children with congenital cytomegalovirus infection. Scientific Reports, 2022, 12, 5219.	3.3	6
78	Probe-Tube Microphone Measures in Patients with Open-Mastoid Surgery: Real-Ear-to-Coupler Differences and Real-Ear Unaided Responses. Audiology and Neuro-Otology, 2000, 5, 59-63.	1.3	5
79	Toward the Pathogenicity of the SLC26A4 p.C565Y Variant Using a Genetically Driven Mouse Model. International Journal of Molecular Sciences, 2021, 22, 2789.	4.1	5
80	Real-Ear to Coupler Difference in Patients with Ear Drum Perforation. Orl, 1999, 61, 345-349.	1.1	4
81	Effects of Alcohol and Noise on Temporary Threshold Shift in Guinea Pigs. Orl, 2004, 66, 124-129.	1.1	4
82	Loudness discomfort levels in patients with conductive and mixed hearing loss. Auris Nasus Larynx, 2000, 27, 101-104.	1.2	3
83	Mandarin Speech Perception in Nucleus CI 24 Implantees Using MAPs Based on Neural Response Telemetry. Orl, 2004, 66, 255-261.	1.1	3
84	THE OPTIMAL MAGNETIC FORCE FOR A NOVEL ACTUATOR COUPLED TO THE TYMPANIC MEMBRANE: A FINITE ELEMENT ANALYSIS. Biomedical Engineering - Applications, Basis and Communications, 2007, 19, 171-177.	0.6	3
85	Facial Nerve Overlying Stapes Footplate as a Cause of Conductive Hearing Loss. Otology and Neurotology, 2008, 29, 1204.	1.3	3
86	Hearing in Noise Test in Subjects With Conductive Hearing Loss. Journal of the Formosan Medical Association, 2009, 108, 937-942.	1.7	3
87	Adiponectin beyond cardiometabolic disorders. Journal of the Formosan Medical Association, 2011, 110, 796-797.	1.7	3
88	Audiovisual Speech Perception at Various Presentation Levels in Mandarin-Speaking Adults with Cochlear Implants. PLoS ONE, 2014, 9, e107252.	2.5	3
89	The effects of kainic acid on the vestibular ganglion cells. Neuroscience Research Communications, 1999, 24, 81-88.	0.2	2
90	Tracheal transection caused by clothesline injury. Journal of the Formosan Medical Association, 2014, 113, 573-574.	1.7	2

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91	No association between plasma adiponectin levels and central auditory function in adults. Metabolic Brain Disease, 2015, 30, 191-196.	2.9	2
92	Ultrastructural Localization of Glutamate and Aspartate Immunoreactivities in Gerbil Inner Hair Cells. Orl, 1997, 59, 131-134.	1.1	1
93	Measurement of [Ca²⁺]_i and [Na⁺]_i in Outer Hair Cells Isolated from Gerbil Cochlea. Orl, 1997, 59, 322-325.	1.1	1
94	Cerebral blood flow in a migraine patient with fluctuated sensorineural hearing loss. Journal of the Formosan Medical Association, 2019, 118, 647-648.	1.7	1
95	Endoscopic Resection of Middle-Ear Lymphatic Malformation in a Child. Ear, Nose and Throat Journal, 2020, 100, 014556132090847.	0.8	1
96	The prevalence and demographic features of congenital cytomegalovirus infection in an urban area of East Asia: A population-based study. PLoS ONE, 2021, 16, e0248801.	2.5	1
97	Editorial: Epidemiology and Genetics of Vestibular Disorders. Frontiers in Neurology, 2021, 12, 743379.	2.4	1
98	Insights into phenotypic differences between humans and mice with p.T721M and other C-terminal variants of the SLC26A4 gene. Scientific Reports, 2021, 11, 20983.	3.3	1
99	Hearing Features and Cochlear Implantation Outcomes in Patients With Pathogenic MYO15A Variants. Ear and Hearing, 2021, Publish Ahead of Print, .	2.1	1
100	Dynamic change of intracellular free calcium and sodium in hair cells of isolated gerbil cochlea. Neuroscience Research Communications, 1997, 20, 49-57.	0.2	0
101	Speech perception in Mandarin-speaking Nucleus 24 implantees using MAPs based on Neural Response Telemetry measurements. Cochlear Implants International, 2004, 5, 49-51.	1.2	0
102	The effects of varying stimulation rate on behavioural T/C-level measurements in young Nucleus 24 recipients. Cochlear Implants International, 2004, 5, 52-53.	1.2	0
103	The short-term effects of reducing the number of active electrodes on Mandarin tone perception in young children using cochlear implants. Cochlear Implants International, 2004, 5, 181-183.	1.2	0
104	Brain activation in patients with congenital bilateral hearing impairment. NeuroReport, 2007, 18, 1483-1486.	1.2	0
105	Developing a non-surgical direct drive hearing device with an opto-electromagnetic actuator attached to the tympanic membrane: Preliminary report. Hearing Research, 2010, 263, 249-250.	2.0	0
106	Mastoiditis. New England Journal of Medicine, 2013, 368, 2014-2014.	27.0	0
107	Cochlear implantation in LEOPARD syndrome: Our experience with three patients. Clinical Otolaryngology, 2022, 47, 341-346.	1.2	0