

Thomas Lenarz

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6849037/thomas-lenarz-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

252
papers

3,563
citations

31
h-index

49
g-index

292
ext. papers

4,670
ext. citations

3.1
avg. IF

5.75
L-index

#	Paper	IF	Citations
252	Preservation of residual hearing with cochlear implantation: how and why. <i>Acta Oto-Laryngologica</i> , 2005 , 125, 481-91	1.6	209
251	Hearing conservation surgery using the Hybrid-L electrode. Results from the first clinical trial at the Medical University of Hannover. <i>Audiology and Neuro-Otology</i> , 2009 , 14 Suppl 1, 22-31	2.2	138
250	Variations in microanatomy of the human cochlea. <i>Journal of Comparative Neurology</i> , 2014 , 522, 3245-61	3.4	129
249	Cochlear length determination using Cone Beam Computed Tomography in a clinical setting. <i>Hearing Research</i> , 2014 , 316, 65-72	3.9	106
248	Impedance Changes and Fibrous Tissue Growth after Cochlear Implantation Are Correlated and Can Be Reduced Using a Dexamethasone Eluting Electrode. <i>PLoS ONE</i> , 2016 , 11, e0147552	3.7	87
247	Hearing preservation outcomes with different cochlear implant electrodes: Nucleus Hybrid L24 and Nucleus Freedom CI422. <i>Audiology and Neuro-Otology</i> , 2014 , 19, 293-309	2.2	76
246	Cochlear implant performance in geriatric patients. <i>Laryngoscope</i> , 2012 , 122, 1361-5	3.6	74
245	Changes of postoperative impedances in cochlear implant patients: the short-term effects of modified electrode surfaces and intracochlear corticosteroids. <i>Otology and Neurotology</i> , 2006 , 27, 639-47	3.6	72
244	Round window vibroplasty: long-term results. <i>Acta Oto-Laryngologica</i> , 2012 , 132, 1042-8	1.6	70
243	Force measurement of insertion of cochlear implant electrode arrays in vitro: comparison of surgeon to automated insertion tool. <i>Acta Oto-Laryngologica</i> , 2010 , 130, 31-6	1.6	62
242	Investigation of the effect of cochlear implant electrode length on speech comprehension in quiet and noise compared with the results with users of electro-acoustic-stimulation, a retrospective analysis. <i>PLoS ONE</i> , 2017 , 12, e0174900	3.7	59
241	Acute Profound Sensorineural Hearing Loss After COVID-19 Pneumonia. <i>Mayo Clinic Proceedings</i> , 2020 , 95, 1801-1803	6.4	57
240	Effects of delayed treatment with combined GDNF and continuous electrical stimulation on spiral ganglion cell survival in deafened guinea pigs. <i>Journal of Neuroscience Research</i> , 2009 , 87, 1389-99	4.4	54
239	The Impact of Electrode Array Length on Hearing Preservation in Cochlear Implantation. <i>Otology and Neurotology</i> , 2016 , 37, 1006-15	2.6	53
238	Spiral Form of the Human Cochlea Results from Spatial Constraints. <i>Scientific Reports</i> , 2017 , 7, 7500	4.9	52
237	Cross-modal reorganization in cochlear implant users: Auditory cortex contributes to visual face processing. <i>NeuroImage</i> , 2015 , 121, 159-70	7.9	50
236	Brain-derived neurotrophic factor/glia cell line-derived neurotrophic factor survival effects on auditory neurons are not limited by dexamethasone. <i>NeuroReport</i> , 2005 , 16, 2011-4	1.7	47

235	Expression of matrix-metalloproteinases and their inhibitors in human cholesteatomas. <i>Acta Oto-Laryngologica</i> , 1996 , 116, 451-6	1.6	45
234	Clinical results of AutoNRT, a completely automatic ECAP recording system for cochlear implants. <i>Ear and Hearing</i> , 2007 , 28, 558-70	3.4	44
233	Insertion site and sealing technique affect residual hearing and tissue formation after cochlear implantation. <i>Hearing Research</i> , 2014 , 312, 21-7	3.9	43
232	Technical report: modification of a cochlear implant electrode for drug delivery to the inner ear. <i>Otology and Neurotology</i> , 2003 , 24, 222-7	2.6	42
231	A Novel Method for Clinical Cochlear Duct Length Estimation toward Patient-Specific Cochlear Implant Selection. <i>OTO Open</i> , 2018 , 2, 2473974X18800238	2	42
230	Cochlear implant - state of the art. <i>GMS Current Topics in Otorhinolaryngology, Head and Neck Surgery</i> , 2017 , 16, Doc04		40
229	Hearing Protection, Restoration, and Regeneration: An Overview of Emerging Therapeutics for Inner Ear and Central Hearing Disorders. <i>Otology and Neurotology</i> , 2019 , 40, 559-570	2.6	40
228	Proteome Analysis of Human Perilymph Using an Intraoperative Sampling Method. <i>Journal of Proteome Research</i> , 2017 , 16, 1911-1923	5.6	38
227	Auditory midbrain implant: research and development towards a second clinical trial. <i>Hearing Research</i> , 2015 , 322, 212-23	3.9	38
226	Long-term delivery of brain-derived neurotrophic factor (BDNF) from nanoporous silica nanoparticles improves the survival of spiral ganglion neurons in vitro. <i>PLoS ONE</i> , 2018 , 13, e0194778	3.7	38
225	Multicenter study with a direct acoustic cochlear implant. <i>Otology and Neurotology</i> , 2013 , 34, 1215-25	2.6	36
224	Patient specific selection of lateral wall cochlear implant electrodes based on anatomical indication ranges. <i>PLoS ONE</i> , 2018 , 13, e0206435	3.7	36
223	Consensus statement: Long-term results of ABI in children with complex inner ear malformations and decision making between CI and ABI. <i>Cochlear Implants International</i> , 2016 , 17, 163-171	1.7	35
222	A review of device failure in more than 23 years of clinical experience of a cochlear implant program with more than 3,400 implantees. <i>Otology and Neurotology</i> , 2009 , 30, 455-63	2.6	32
221	Neuronal Survival, Morphology and Outgrowth of Spiral Ganglion Neurons Using a Defined Growth Factor Combination. <i>PLoS ONE</i> , 2015 , 10, e0133680	3.7	31
220	In vitro and in vivo evaluation of a hydrogel reservoir as a continuous drug delivery system for inner ear treatment. <i>PLoS ONE</i> , 2014 , 9, e104564	3.7	30
219	Hydrogel coated and dexamethasone releasing cochlear implants: quantification of fibrosis in guinea pigs and evaluation of insertion forces in a human cochlea model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 169-78	3.5	29
218	The effect of static force on round window stimulation with the direct acoustic cochlea stimulator. <i>Hearing Research</i> , 2013 , 301, 115-24	3.9	29

217	Induction chemotherapy (IC) followed by radiotherapy (RT) versus cetuximab plus IC and RT in advanced laryngeal/hypopharyngeal cancer resectable only by total laryngectomy-final results of the larynx organ preservation trial DeLOS-II. <i>Annals of Oncology</i> , 2018 , 29, 2105-2114	10.3	29
216	Development of a specially tailored local drug delivery system for the prevention of fibrosis after insertion of cochlear implants into the inner ear. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2151-62	4.5	26
215	Biohybrid cochlear implants in human neurosensory restoration. <i>Stem Cell Research and Therapy</i> , 2016 , 7, 148	8.3	26
214	Retrospective audiological analysis of bone conduction versus round window vibratory stimulation in patients with mixed hearing loss. <i>International Journal of Audiology</i> , 2015 , 54, 391-400	2.6	25
213	The OpenEar library of 3D models of the human temporal bone based on computed tomography and micro-slicing. <i>Scientific Data</i> , 2019 , 6, 180297	8.2	25
212	Unilateral Cochlear Implants for Severe, Profound, or Moderate Sloping to Profound Bilateral Sensorineural Hearing Loss: A Systematic Review and Consensus Statements. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2020 , 146, 942-953	3.9	25
211	Stem Cell Based Drug Delivery for Protection of Auditory Neurons in a Guinea Pig Model of Cochlear Implantation. <i>Frontiers in Cellular Neuroscience</i> , 2019 , 13, 177	6.1	24
210	TGF-beta superfamily member activin A acts with BDNF and erythropoietin to improve survival of spiral ganglion neurons in vitro. <i>Neuropharmacology</i> , 2013 , 75, 416-25	5.5	23
209	Cochlear helix and duct length identification - Evaluation of different curve fitting techniques. <i>Cochlear Implants International</i> , 2018 , 19, 268-283	1.7	22
208	Round window stimulation with the floating mass transducer at constant pretension. <i>Hearing Research</i> , 2014 , 314, 1-9	3.9	22
207	A comparative study on speech in noise understanding with a direct acoustic cochlear implant in subjects with severe to profound mixed hearing loss. <i>Audiology and Neuro-Otology</i> , 2014 , 19, 164-74	2.2	22
206	Platinum corrosion products from electrode contacts of human cochlear implants induce cell death in cell culture models. <i>PLoS ONE</i> , 2018 , 13, e0196649	3.7	22
205	Local inner ear application of dexamethasone in cochlear implant models is safe for auditory neurons and increases the neuroprotective effect of chronic electrical stimulation. <i>PLoS ONE</i> , 2017 , 12, e0183820	3.7	21
204	Visualization, measurement and modelling of the cochlea using rotating midmodiolar slice planes. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016 , 11, 1855-69	3.9	21
203	Cochlear implants. <i>Current Pharmaceutical Biotechnology</i> , 2013 , 14, 112-23	2.6	21
202	Heat Shock Proteins in Human Perilymph: Implications for Cochlear Implantation. <i>Otology and Neurotology</i> , 2018 , 39, 37-44	2.6	20
201	BDNF-overexpressing human mesenchymal stem cells mediate increased neuronal protection in vitro. <i>Journal of Neuroscience Research</i> , 2019 , 97, 1414-1429	4.4	20
200	The Optimal inter-implant interval in pediatric sequential bilateral implantation. <i>Hearing Research</i> , 2019 , 372, 80-87	3.9	20

199	Encapsulated cell device approach for combined electrical stimulation and neurotrophic treatment of the deaf cochlea. <i>Hearing Research</i> , 2017 , 350, 110-121	3.9	19
198	Comparison of Alternative Coupling Methods of the Vibrant Soundbridge Floating Mass Transducer. <i>Audiology and Neuro-Otology</i> , 2016 , 21, 347-355	2.2	19
197	A 3D-printed functioning anatomical human middle ear model. <i>Hearing Research</i> , 2016 , 340, 204-213	3.9	19
196	Positron Emission Tomography Imaging Reveals Auditory and Frontal Cortical Regions Involved with Speech Perception and Loudness Adaptation. <i>PLoS ONE</i> , 2015 , 10, e0128743	3.7	19
195	Nanosecond laser pulse stimulation of spiral ganglion neurons and model cells. <i>Biomedical Optics Express</i> , 2014 , 5, 1014-25	3.5	19
194	Lipidic nanocapsule drug delivery: neuronal protection for cochlear implant optimization. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2449-64	7.3	19
193	Feasibility of microRNA profiling in human inner ear perilymph. <i>NeuroReport</i> , 2018 , 29, 894-901	1.7	19
192	Individual Hearing Preservation Cochlear Implantation Using the Concept of Partial Insertion. <i>Otology and Neurotology</i> , 2019 , 40, e326-e335	2.6	18
191	Long-term results of incus vibroplasty in patients with moderate-to-severe sensorineural hearing loss. <i>Audiology and Neuro-Otology</i> , 2015 , 20, 136-146	2.2	17
190	Phosphodiesterase type 4 inhibitor rolipram improves survival of spiral ganglion neurons in vitro. <i>PLoS ONE</i> , 2014 , 9, e92157	3.7	17
189	Effect of hyperbaric oxygen on BDNF-release and neuroprotection: Investigations with human mesenchymal stem cells and genetically modified NIH3T3 fibroblasts as putative cell therapeutics. <i>PLoS ONE</i> , 2017 , 12, e0178182	3.7	16
188	Analysis of Different Approaches for Clinical Cochlear Coverage Evaluation After Cochlear Implantation. <i>Otology and Neurotology</i> , 2018 , 39, e642-e650	2.6	16
187	Biocompatibility of MgF2-coated MgNd2 specimens in contact with mucosa of the nasal sinus - a long term study. <i>Acta Biomaterialia</i> , 2015 , 18, 249-61	10.8	15
186	Alginate-encapsulated brain-derived neurotrophic factor-overexpressing mesenchymal stem cells are a promising drug delivery system for protection of auditory neurons. <i>Journal of Tissue Engineering</i> , 2020 , 11, 2041731420911313	7.5	15
185	Facial palsy following cochlear implantation. <i>European Archives of Oto-Rhino-Laryngology</i> , 2016 , 273, 4199-4207	3.5	15
184	Defining the Inflammatory Microenvironment in the Human Cochlea by Perilymph Analysis: Toward Liquid Biopsy of the Cochlea. <i>Frontiers in Neurology</i> , 2019 , 10, 665	4.1	15
183	Spiral ganglion neuron quantification in the guinea pig cochlea using Confocal Laser Scanning Microscopy compared to embedding methods. <i>Hearing Research</i> , 2013 , 306, 145-55	3.9	15
182	Validation of methods for prediction of clinical output levels of active middle ear implants from measurements in human cadaveric ears. <i>Scientific Reports</i> , 2017 , 7, 15877	4.9	15

181	Do you hear the noise? The German matrix sentence test with a fixed noise level in subjects with normal hearing and hearing impairment. <i>International Journal of Audiology</i> , 2015 , 54 Suppl 2, 71-9	2.6	15
180	Clinical use of a system for the automated recording and analysis of electrically evoked compound action potentials (ECAPs) in cochlear implant patients. <i>Acta Oto-Laryngologica</i> , 2010 , 130, 724-32	1.6	15
179	Quantification of tumor cell invasion using confocal laser scan microscopy. <i>Nature Medicine</i> , 1997 , 3, 1167-71	50.5	15
178	Minimal Reporting Standards for Active Middle Ear Hearing Implants. <i>Audiology and Neuro-Otology</i> , 2018 , 23, 105-115	2.2	15
177	Retrospective Analysis of Hearing-Impaired Adult Patients Treated With an Active Transcutaneous Bone Conduction Implant. <i>Otology and Neurotology</i> , 2018 , 39, 874-881	2.6	14
176	Treatment of middle ear ventilation disorders: sheep as animal model for stenting the human Eustachian tube--a cadaver study. <i>PLoS ONE</i> , 2014 , 9, e113906	3.7	14
175	The Codacs Direct acoustic cochlear implant actuator: exploring alternative stimulation sites and their stimulation efficiency. <i>PLoS ONE</i> , 2015 , 10, e0119601	3.7	14
174	On the accuracy of cochlear duct length measurement in computed tomographic images. <i>European Archives of Oto-Rhino-Laryngology</i> , 2018 , 275, 1077-1085	3.5	13
173	Cortical activation patterns to spatially presented pure tone stimuli with different intensities measured by functional near-infrared spectroscopy. <i>Human Brain Mapping</i> , 2018 , 39, 2710-2724	5.9	13
172	Establishment of a long-term spiral ganglion neuron culture with reduced glial cell number: Effects of AraC on cell composition and neurons. <i>Journal of Neuroscience Methods</i> , 2016 , 268, 106-16	3	13
171	Differential Intracochlear Sound Pressure Measurements in Human Temporal Bones with an Off-the-Shelf Sensor. <i>BioMed Research International</i> , 2016 , 2016, 6059479	3	13
170	Intracochlear administration of steroids with a catheter during human cochlear implantation: a safety and feasibility study. <i>Drug Delivery and Translational Research</i> , 2018 , 8, 1191-1199	6.2	13
169	Extracellular vesicles from human multipotent stromal cells protect against hearing loss after noise trauma in vivo. <i>Clinical and Translational Medicine</i> , 2020 , 10, e262	5.7	13
168	Insertion forces and intracochlear trauma in temporal bone specimens implanted with a straight atraumatic electrode array. <i>European Archives of Oto-Rhino-Laryngology</i> , 2017 , 274, 2131-2140	3.5	12
167	Monitoring of the Inner Ear Function During and After Cochlear Implant Insertion Using Electrocochleography. <i>Trends in Hearing</i> , 2019 , 23, 2331216519833567	3.2	12
166	Three-dimensional modeling of the cochlea by use of an arc fitting approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016 , 19, 1785-1799	2.1	12
165	Dissociated neurons and glial cells derived from rat inferior colliculi after digestion with papain. <i>PLoS ONE</i> , 2013 , 8, e80490	3.7	12
164	Scanning laser optical tomography for in toto imaging of the murine cochlea. <i>PLoS ONE</i> , 2017 , 12, e0175431	3.7	12

163	Coatings of Different Carbon Nanotubes on Platinum Electrodes for Neuronal Devices: Preparation, Cytocompatibility and Interaction with Spiral Ganglion Cells. <i>PLoS ONE</i> , 2016 , 11, e0158571	3.7	12
162	Does severity of cerebral MRI lesions in congenital CMV infection correlates with the outcome of cochlear implantation?. <i>European Archives of Oto-Rhino-Laryngology</i> , 2017 , 274, 1397-1403	3.5	11
161	The influence of newborn hearing screening on the age at cochlear implantation in children. <i>Laryngoscope</i> , 2015 , 125, 985-90	3.6	11
160	The Summating Potential Is a Reliable Marker of Electrode Position in Electrocochleography: Cochlear Implant as a Theragnostic Probe. <i>Ear and Hearing</i> , 2018 , 39, 687-700	3.4	11
159	The Hannover Coupler: Controlled Static Prestress in Round Window Stimulation With the Floating Mass Transducer. <i>Otology and Neurotology</i> , 2017 , 38, 1186-1192	2.6	11
158	Validation of eGFP fluorescence intensity for testing in vitro cytotoxicity according to ISO 10993-5. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 715-722	3.5	10
157	Detection of BDNF-Related Proteins in Human Perilymph in Patients With Hearing Loss. <i>Frontiers in Neuroscience</i> , 2019 , 13, 214	5.1	10
156	Stenting the Eustachian tube to treat chronic otitis media - a feasibility study in sheep. <i>Head & Face Medicine</i> , 2018 , 14, 8	2.4	10
155	Prevalence and audiological profiles of GJB2 mutations in a large collective of hearing impaired patients. <i>Hearing Research</i> , 2016 , 333, 77-86	3.9	10
154	Advances in translational inner ear stem cell research. <i>Hearing Research</i> , 2017 , 353, 76-86	3.9	9
153	Grid-like surface structures in thermoplastic polyurethane induce anti-inflammatory and anti-fibrotic processes in bone marrow-derived mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 148, 104-115	6	9
152	Cochlear implantation in children under the age of two years. <i>Advances in Oto-Rhino-Laryngology</i> , 1997 , 52, 204-10	1.7	9
151	Polymer Coatings of Cochlear Implant Electrode Surface - An Option for Improving Electrode-Nerve-Interface by Blocking Fibroblast Overgrowth. <i>PLoS ONE</i> , 2016 , 11, e0157710	3.7	9
150	A simple tool to automate the insertion process in cochlear implant surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 1931-1939	3.9	9
149	Impact of the surgical wound closure technique on the revision surgery rate after subtotal petrosectomy. <i>European Archives of Oto-Rhino-Laryngology</i> , 2016 , 273, 3641-3646	3.5	9
148	Electric-acoustic forward masking in cochlear implant users with ipsilateral residual hearing. <i>Hearing Research</i> , 2018 , 364, 25-37	3.9	8
147	Subtotal petrosectomy and Codacs new possibilities in ears with chronic infection. <i>European Archives of Oto-Rhino-Laryngology</i> , 2016 , 273, 1387-91	3.5	8
146	Interaction Between Electric and Acoustic Stimulation Influences Speech Perception in Ipsilateral EAS Users. <i>Ear and Hearing</i> , 2020 , 41, 868-882	3.4	8

145	Optimum Coupling of an Active Middle Ear Actuator: Effect of Loading Forces on Actuator Output and Conductive Losses. <i>Otology and Neurotology</i> , 2019 , 40, 789-796	2.6	8
144	Biodegradable nasal stents (MgF ₂ -coated Mg-2 wt %Nd alloy)-A long-term in vivo study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 350-365	3.5	7
143	Coating stability and insertion forces of an alginate-cell-based drug delivery implant system for the inner ear. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 97, 90-98	4.1	7
142	Human Plasma Rich in Growth Factors Improves Survival and Neurite Outgrowth of Spiral Ganglion Neurons In Vitro. <i>Tissue Engineering - Part A</i> , 2018 , 24, 493-501	3.9	7
141	Individual Optimization of the Insertion of a Preformed Cochlear Implant Electrode Array. <i>International Journal of Otolaryngology</i> , 2015 , 2015, 724703	1.4	7
140	Randomized placebo-controlled clinical trial investigating the effect of antioxidants and a vasodilator on overall safety and residual hearing preservation in cochlear implant patients. <i>Trials</i> , 2020 , 21, 643	2.8	7
139	Hearing Preservation With a New Atraumatic Lateral Wall Electrode. <i>Otology and Neurotology</i> , 2020 , 41, e993-e1003	2.6	7
138	Induction of neuronal-like phenotype in human mesenchymal stem cells by overexpression of Neurogenin1 and treatment with neurotrophins. <i>Tissue and Cell</i> , 2016 , 48, 524-32	2.7	7
137	Efficacy of Auditory Implants for Patients With Conductive and Mixed Hearing Loss Depends on Implant Center. <i>Otology and Neurotology</i> , 2019 , 40, 430-435	2.6	7
136	Outcome evaluation on cochlear implant users with residual hearing. <i>Cochlear Implants International</i> , 2018 , 19, 88-99	1.7	7
135	Photochemical coating of Kapton [®] with hydrophilic polymers for the improvement of neural implants. <i>Materials Science and Engineering C</i> , 2017 , 75, 286-296	8.3	6
134	Biocompatibility of silver containing silica films on Bioverit [®] II middle ear prostheses in rabbits. <i>Journal of Biomaterials Applications</i> , 2015 , 30, 17-29	2.9	6
133	fNIRS for future use in auditory diagnostics. <i>Current Directions in Biomedical Engineering</i> , 2016 , 2, 229-230.5	2.5	6
132	Innovative 3D Model of the Human Middle Ear in High Resolution with a Histological Microgrinding Method: A Feasibility Study and Comparison with μCT. <i>International Journal of Otolaryngology</i> , 2017 , 2017, 6753604	1.4	6
131	Improved Speech Intelligibility in Subjects With Stable Sensorineural Hearing Loss Following Intratympanic Dosing of FX-322 in a Phase 1b Study. <i>Otology and Neurotology</i> , 2021 , 42, e849-e857	2.6	6
130	Fine-grain recordings of the electrically evoked compound action potential amplitude growth function in cochlear implant recipients. <i>BioMedical Engineering OnLine</i> , 2018 , 17, 140	4.1	6
129	Impact of the round window membrane accessibility on hearing preservation in adult cochlear implantation. <i>European Archives of Oto-Rhino-Laryngology</i> , 2017 , 274, 3049-3056	3.5	5
128	Characterizing the size of the target region for atraumatic opening of the cochlea through the facial recess. <i>Computerized Medical Imaging and Graphics</i> , 2019 , 77, 101655	7.6	5

127	On the Intracochlear Location of Straight Electrode Arrays After Cochlear Implantation: How Lateral Are Lateral Wall Electrodes?. <i>Otology and Neurotology</i> , 2021 , 42, 242-250	2.6	5
126	Consecutive Treatment with Brain-Derived Neurotrophic Factor and Electrical Stimulation Has a Protective Effect on Primary Auditory Neurons. <i>Brain Sciences</i> , 2020 , 10,	3.4	5
125	The Conspicuous Link between Ear, Brain and Heart-Could Neurotrophin-Treatment of Age-Related Hearing Loss Help Prevent Alzheimer's Disease and Associated Amyloid Cardiomyopathy?. <i>Biomolecules</i> , 2021 , 11,	5.9	5
124	Intraluminal three-dimensional optical coherence tomography - a tool for imaging of the Eustachian tube?. <i>Journal of Laryngology and Otology</i> , 2019 , 133, 87-94	1.8	5
123	Computational analysis based on audioprofiles: A new possibility for patient stratification in office-based otology. <i>Audiology Research</i> , 2019 , 9, 230	1.5	5
122	Single Intravenous High Dose Administration of Prednisolone Has No Influence on Postoperative Impedances in the Majority of Cochlear Implant Patients. <i>Otology and Neurotology</i> , 2018 , 39, e1002-e1009 ^{2,6}	2.6	5
121	Clinical Use of Navigation in Lateral Skull Base Surgery: Results of a Multispecialty National Survey among Skull Base Surgeons in Germany. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2018 , 79, 545-553 ^{1,5}	1.5	5
120	Microenvironmental support for cell delivery to the inner ear. <i>Hearing Research</i> , 2018 , 368, 109-122	3.9	5
119	Cochlear implantation in children under the age of two: the MHH experience with the CLARION cochlear implant. Medizinische Hochschule Hannover. <i>The Annals of Otology, Rhinology & Laryngology Supplement</i> , 1999 , 177, 44-9		5
118	A novel biodegradable frontal sinus stent (MgNd2): a long-term animal study. <i>European Archives of Oto-Rhino-Laryngology</i> , 2016 , 273, 1455-67	3.5	4
117	Introducing real-life listening features into the clinical test environment: Part II: Measuring the hearing performance and evaluating the listening effort of individuals with a hearing implant. <i>Cochlear Implants International</i> , 2019 , 20, 165-175	1.7	4
116	Influence of In Vitro Electrical Stimulation on Survival of Spiral Ganglion Neurons. <i>Neurotoxicity Research</i> , 2019 , 36, 204-216	4.3	4
115	Nanostructuring of cochlear implant electrode contacts induces delayed impedance increase in vivo. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1210-1215	1.6	4
114	Dose-Dependent Transient Decrease of Impedances by Deep Intracochlear Injection of Triamcinolone With a Cochlear Catheter Prior to Cochlear Implantation-1 Year Data. <i>Frontiers in Neurology</i> , 2020 , 11, 258	4.1	4
113	Outer ear canal sound pressure and bone vibration measurement in SSD and CHL patients using a transcutaneous bone conduction instrument. <i>Hearing Research</i> , 2016 , 340, 161-168	3.9	4
112	Tubular manipulators: a new concept for intracochlear positioning of an auditory prosthesis. <i>Current Directions in Biomedical Engineering</i> , 2015 , 1, 515-518	0.5	4
111	Electric-acoustic interaction measurements in cochlear-implant users with ipsilateral residual hearing using electrocochleography. <i>Journal of the Acoustical Society of America</i> , 2020 , 147, 350	2.2	4
110	Experimental Visualization of Labyrinthine Structure with Optical Coherence Tomography. <i>Iranian Journal of Otorhinolaryngology</i> , 2017 , 29, 5-9	0.6	4

109	Psychoacoustic and electrophysiological electric-acoustic interaction effects in cochlear implant users with ipsilateral residual hearing. <i>Hearing Research</i> , 2020 , 386, 107873	3.9	4
108	A cochlear scaling model for accurate anatomy evaluation and frequency allocation in cochlear implantation. <i>Hearing Research</i> , 2021 , 403, 108166	3.9	4
107	Hidden Electrode Failure in a Cochlear Implant User. <i>Laryngoscope</i> , 2021 , 131, E1275-E1278	3.6	4
106	Impact of anatomical variations on insertion forces. <i>Current Directions in Biomedical Engineering</i> , 2018 , 4, 509-512	0.5	4
105	Hearing dysfunction in patients with Neuro-Sjögren: a cross-sectional study. <i>Annals of Translational Medicine</i> , 2020 , 8, 1069	3.2	3
104	Expression pattern of brain-derived neurotrophic factor and its associated receptors: Implications for exogenous neurotrophin application. <i>Hearing Research</i> , 2020 , 413, 108098	3.9	3
103	Amplitude growth of intracochlear electrocochleography in cochlear implant users with residual hearing. <i>Journal of the Acoustical Society of America</i> , 2020 , 147, 1147	2.2	3
102	Feasibility of Round Window Stimulation by a Novel Electromagnetic Microactuator. <i>BioMed Research International</i> , 2017 , 2017, 6369247	3	3
101	Nanoporous silica coatings on implant surfaces: characterization, stability, biocompatibility and drug release properties. <i>BioNanoMaterials</i> , 2013 , 14, 89-100		3
100	Magnetic Beads Enhance Adhesion of NIH 3T3 Fibroblasts: A Proof-of-Principle In Vitro Study for Implant-Mediated Long-Term Drug Delivery to the Inner Ear. <i>PLoS ONE</i> , 2016 , 11, e0150057	3.7	3
99	High Variability of Postsurgical Anatomy Supports the Need for Individualized Drug-Eluting Implants to Treat Chronic Rhinosinusitis. <i>Life</i> , 2020 , 10,	3	3
98	The Effect of Ultra-slow Velocities on Insertion Forces: A Study Using a Highly Flexible Straight Electrode Array. <i>Otology and Neurotology</i> , 2021 , 42, e1013-e1021	2.6	3
97	Long-Term, Multicenter Results With the First Transcutaneous Bone Conduction Implant. <i>Otology and Neurotology</i> , 2021 , 42, 858-866	2.6	3
96	Transient Noise Reduction in Cochlear Implant Users: a Multi-Band Approach. <i>Audiology Research</i> , 2016 , 6, 154	1.5	3
95	ACEMg-mediated hearing preservation in cochlear implant patients receiving different electrode lengths (PROHEARING): study protocol for a randomized controlled trial. <i>Trials</i> , 2016 , 17, 394	2.8	3
94	Decellularized equine carotid artery layers as matrix for regenerated neurites of spiral ganglion neurons. <i>International Journal of Artificial Organs</i> , 2020 , 43, 332-342	1.9	3
93	Case Report of a New Coupler for Round Window Application of an Active Middle Ear Implant. <i>Otology and Neurotology</i> , 2018 , 39, e1060-e1063	2.6	3
92	Investigation of balloon dilation devices for treatment of Eustachian tube dysfunction. <i>Current Directions in Biomedical Engineering</i> , 2018 , 4, 529-533	0.5	3

91	Workflow assessment as a preclinical development tool : Surgical process models of three techniques for minimally invasive cochlear implantation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 1389-1401	3.9	2
90	Audiological Results with the SAMBA Audio Processor in Comparison to the AmadI for the Vibrant Soundbridge. <i>Audiology and Neuro-Otology</i> , 2020 , 25, 164-172	2.2	2
89	Case report of the first patient with electro-mechanical stimulation of the inner ear: The Vibrant Soundbridge combined with a FLEX20 cochlear implant. <i>Otolaryngology Case Reports</i> , 2020 , 16, 100182	0.3	2
88	Toward steerable electrodes. An overview of concepts and current research.. <i>Current Directions in Biomedical Engineering</i> , 2017 , 3, 765-769	0.5	2
87	Radiologic detectability of the cochlear implant electrode fixation clip using cone beam computed tomography. <i>Cochlear Implants International</i> , 2016 , 17, 271-275	1.7	2
86	Feasibility of O-water PET studies of auditory system activation during general anesthesia in children. <i>EJNMMI Research</i> , 2018 , 8, 11	3.6	2
85	Tympanometric measurements in conscious sheep - a diagnostic tool for pre-clinical middle ear implant studies. <i>International Journal of Audiology</i> , 2017 , 56, 53-61	2.6	2
84	Audiology in Germany. <i>American Journal of Audiology</i> , 1995 , 4, 9-11	1.8	2
83	Level of sex hormones and their association with acetylsalicylic acid intolerance and nasal polyposis. <i>PLoS ONE</i> , 2020 , 15, e0243732	3.7	2
82	Middle Ear Actuator Performance Determined From Intracochlear Pressure Measurements in a Single Cochlear Scala. <i>Otology and Neurotology</i> , 2021 , 42, e86-e93	2.6	2
81	Cochlear implantation improves hearing and vertigo in patients after removal of vestibular schwannoma. <i>International Tinnitus Journal</i> , 2017 , 21, 2-6	1.6	2
80	Do Impedance Changes Correlate With a Delayed Hearing Loss After Hybrid L24 Implantation?. <i>Ear and Hearing</i> , 2020 , 42, 163-172	3.4	2
79	Performance Evaluation of Coupling Variants for an Active Middle Ear Implant Actuator: Output, Conductive Losses, and Stability of Coupling With Ambient Pressure Changes. <i>Otology and Neurotology</i> , 2021 , 42, e690-e697	2.6	2
78	Dimensions of artefacts caused by cochlear and auditory brainstem implants in magnetic resonance imaging. <i>Cochlear Implants International</i> , 2020 , 21, 67-74	1.7	2
77	The insular cortex as a vestibular area in relation to autonomic function. <i>Clinical Autonomic Research</i> , 2021 , 31, 179-185	4.3	2
76	Concept description and accuracy evaluation of a moldable surgical targeting system. <i>Journal of Medical Imaging</i> , 2021 , 8, 015003	2.6	2
75	Direct Acoustic Cochlear Implants Lead to an Improved Speech Perception Gap Compared to Conventional Hearing Aid. <i>Otology and Neurotology</i> , 2018 , 39, 1147-1152	2.6	2
74	Minimally invasive mastoidectomy approach using a mouldable surgical targeting system. <i>Current Directions in Biomedical Engineering</i> , 2018 , 4, 403-406	0.5	2

73	Personalized Proteomics for Precision Diagnostics in Hearing Loss: Disease-Specific Analysis of Human Perilymph by Mass Spectrometry. <i>ACS Omega</i> , 2021 , 6, 21241-21254	3.9	2
72	Clinical experiences with intraoperative electrocochleography in cochlear implant recipients and its potential to reduce insertion trauma and improve postoperative hearing preservation.. <i>PLoS ONE</i> , 2022 , 17, e0266077	3.7	2
71	Comparison of superelastic nitinol stapes prostheses and platin teflon stapes prostheses. <i>European Archives of Oto-Rhino-Laryngology</i> , 2019 , 276, 2405-2409	3.5	1
70	Scanning laser optical tomography in a neuropathic mouse model : Visualization of structural changes. <i>Hno</i> , 2019 , 67, 69-76	3.7	1
69	Dimensions and position of the Eustachian tube in Humans. <i>PLoS ONE</i> , 2020 , 15, e0232655	3.7	1
68	Differential Effects of Low- and High-Dose Dexamethasone on Electrically Induced Damage of the Cultured Organ of Corti. <i>Neurotoxicity Research</i> , 2020 , 38, 487-497	4.3	1
67	Intratympanic application of triamcinolone in sudden hearing loss-radiologic anatomy in cone beam CT and its correlation to clinical outcome. <i>European Archives of Oto-Rhino-Laryngology</i> , 2020 , 277, 1931-1937	3.5	1
66	Exploratory tympanotomy in sudden sensorineural hearing loss for the identification of a perilymphatic fistula - retrospective analysis and review of the literature. <i>Journal of Laryngology and Otology</i> , 2020 , 134, 501-508	1.8	1
65	Challenges and advances in translating gene therapy for hearing disorders. <i>Expert Review of Precision Medicine and Drug Development</i> , 2020 , 5, 23-34	1.6	1
64	Lifetime cost of unilateral cochlear implants in adults: a Monte Carlo simulation. <i>European Journal of Health Economics</i> , 2020 , 21, 963-975	3.6	1
63	Characterization of a measurement setup for the thermomechanical characterization of curved shape memory alloy actuators. <i>Current Directions in Biomedical Engineering</i> , 2019 , 5, 445-447	0.5	1
62	Design and fabrication of a microactuator for a hearing aid. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2012 , 39, 471-477	0.4	1
61	Force measurement at the insertion process of cochlear implant electrodes. <i>Biomedizinische Technik</i> , 2012 , 57,	1.3	1
60	Rhinocerebral Mucormycosis. <i>Klinische Neuroradiologie</i> , 2003 , 13, 213-217		1
59	Illustrating orientation changes of the insertion trajectory during cochlear implant electrode array insertion. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 113-116	0.5	1
58	Facial nerve stimulation in cochlear implant users - a matter of stimulus parameters?. <i>Cochlear Implants International</i> , 2022 , 1-8	1.7	1
57	Relationship Between Intraoperative Electrocochleography and Hearing Preservation. <i>Otology and Neurotology</i> , 2022 , 43, e72-e78	2.6	1
56	Melkersson-Rosenthal syndrome in the context of sarcoidosis: a case report. <i>Journal of Medical Case Reports</i> , 2021 , 15, 488	1.2	1

55	Monitoring of the auditory pathway maturation after early intervention during the first year of life in infants with sensorineural hearing loss. <i>European Archives of Oto-Rhino-Laryngology</i> , 2021 , 278, 4187-4197	3.5	1
54	Intraoperative facial nerve monitoring in the infratemporal fossa approach: improved preservation of nerve function. <i>European Archives of Oto-Rhino-Laryngology</i> , 1994 , S319-20	3.5	1
53	Impedance Values Do Not Correlate With Speech Understanding in Cochlear Implant Recipients. <i>Otology and Neurotology</i> , 2020 , 41, e1029-e1034	2.6	1
52	Correlation of Electrically Evoked Compound Action Potential Amplitude Growth Function Slope and Anamnestic Parameters in Cochlear Implant Patients-Identification of Predictors for the Neuronal Health Status. <i>Life</i> , 2021 , 11,	3	1
51	Uncoiling the Human Cochlea-Physical Scala Tympani Models to Study Pharmacokinetics Inside the Inner Ear. <i>Life</i> , 2021 , 11,	3	1
50	Determination of optimal excitation patterns for local mechanical inner ear stimulation using a physiologically-based model. <i>Biomedical Microdevices</i> , 2016 , 18, 36	3.7	1
49	Optical absorbance of the tympanic membrane in rat and human samples. <i>PLoS ONE</i> , 2021 , 16, e0254903	3.7	1
48	The Use of Clinically Measurable Cochlear Parameters in Cochlear Implant Surgery as Indicators for Size, Shape, and Orientation of the Scala Tympani. <i>Ear and Hearing</i> , 2021 , 42, 1034-1041	3.4	1
47	Variations in microanatomy of the human modiolus require individualized cochlear implantation.. <i>Scientific Reports</i> , 2022 , 12, 5047	4.9	1
46	Insertion trauma of a cochlear implant electrode array with Nitinol inlay. <i>European Archives of Oto-Rhino-Laryngology</i> , 2016 , 273, 3573-3585	3.5	0
45	Redesign of the Hannover Coupler: Optimized Vibration Transfer from Floating Mass Transducer to Round Window. <i>BioMed Research International</i> , 2018 , 2018, 3701954	3	0
44	The Impact of Two-Stage Subtotal Petrosectomy and Round Window Vibroplasty on Bone Conduction Thresholds. <i>Orl</i> , 2018 , 80, 77-84	2	0
43	Reducing the manual length setting error of a passive Gough-Stewart platform for surgical template fabrication using a digital measurement system. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 89-92	0.5	0
42	Investigation of auditory neuronal survival and outgrowth using a cochlear implant in an artificial cochlear model. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 449-452	0.5	0
41	Stability and Biocompatibility Tests of Alginate as Cochlear Implant Coating Material. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 775-778	0.5	0
40	Micro injection molding of individualised implants using 3D printed molds manufactured via digital light processing. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 399-402	0.5	0
39	Distinct multisensory perceptual processes guide enhanced auditory recognition memory in older cochlear implant users.. <i>NeuroImage: Clinical</i> , 2022 , 33, 102942	5.3	0
38	Optimized SNR-based ECAP threshold determination is comparable to the judgement of human evaluators. <i>PLoS ONE</i> , 2021 , 16, e0259347	3.7	0

37	Tracheal Transection-A Novel Airway Management. <i>The Thoracic and Cardiovascular Surgeon Reports</i> , 2020 , 9, e24-e28	0.3	o
36	Evaluating Neurotrophin Signaling Using MicroRNA Perilymph Profiling in Cochlear Implant Patients With and Without Residual Hearing. <i>Otology and Neurotology</i> , 2021 , 42, e1125-e1133	2.6	o
35	Amplitude Growth Functions of Auditory Nerve Responses to Electric Pulse Stimulation With Varied Interphase Gaps in Cochlear Implant Users With Ipsilateral Residual Hearing. <i>Trends in Hearing</i> , 2021 , 25, 23312165211014137	3.2	o
34	Potential of Brain-Derived Neurotrophic Factor-Induced Protection of Spiral Ganglion Neurons by C3 Exoenzyme/Rho Inhibitor. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 602897	6.1	o
33	Functional aspects of the Eustachian tube by means of 3D-modeling. <i>PLoS ONE</i> , 2021 , 16, e0244909	3.7	o
32	Cochlear implantation under local anesthesia in 117 cases: patients's subjective experience and outcomes. <i>European Archives of Oto-Rhino-Laryngology</i> , 2021 , 1	3.5	o
31	Proteome profile of patients with excellent and poor speech intelligibility after cochlear implantation: Can perilymph proteins predict performance?. <i>PLoS ONE</i> , 2022 , 17, e0263765	3.7	o
30	Cochlea implantation in patients with superficial hemosiderosis.. <i>European Archives of Oto-Rhino-Laryngology</i> , 2021 , 1	3.5	o
29	Minimally Invasive Cochlear Implantation: First-in-Man of Patient-Specific Positioning Jigs.. <i>Frontiers in Neurology</i> , 2022 , 13, 829478	4.1	o
28	Bioinformatic Analysis of the Perilymph Proteome to Generate a Human Protein Atlas.. <i>Frontiers in Cell and Developmental Biology</i> , 2022 , 10, 847157	5.7	o
27	Objective and subjective assessment of outcomes after sinus surgery in sixty patients. <i>Clinical Otolaryngology</i> , 2017 , 42, 1400-1403	1.8	
26	Numerical analysis of intracochlear mechanical auditory stimulation using piezoelectric bending actuators. <i>Medical and Biological Engineering and Computing</i> , 2018 , 56, 733-747	3.1	
25	Fibroblast growth on patterned polymeric coatings. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1456-1462	1.6	
24	Imaging in hearing using radiotracers. <i>Current Directions in Biomedical Engineering</i> , 2017 , 3, 187-190	0.5	
23	Ear, nose and throat surgery 2013 , 60-72		
22	A method to determine the accuracy of shape setting thin, spirally shaped Nitinol wires. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 93-96	0.5	
21	A software for online monitoring of orientation-compensated forces during CI insertion. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 97-100	0.5	
20	Reliability of start and stop control of hydraulic actuation for the insertion of electrode arrays. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 109-112	0.5	

19	Polymer selection for Eustachian tube stent application based on mechanical, thermal and degradation behavior. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 656-659	0.5
18	A method for image-guided positioning of cochlear specimens in insertion test benches using 3D printed stands. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 105-108	0.5
17	Real-world clinical experience with bimodal neuromodulation for the treatment of tinnitus - A case series.. <i>Brain Stimulation</i> , 2022 ,	5.1
16	First results with the Spectra 22 Speech Processor at the Medizinische Hochschule Hannover. <i>The Annals of Otology, Rhinology & Laryngology Supplement</i> , 1995 , 166, 285-7	
15	Feasibility Assessment of Optical Coherence Tomography-Guided Laser Labeling in Middle Cranial Fossa Approach. <i>Iranian Journal of Otorhinolaryngology</i> , 2018 , 30, 321-327	0.6
14	Polymeric stents for the Eustachian tube: development and human cadaver study. <i>Current Directions in Biomedical Engineering</i> , 2020 , 6, 213-216	0.5
13	Superior semicircular canal dehiscence: a narrative review. <i>Journal of Laryngology and Otology</i> , 2021 , 1-20	1.8
12	Corrosion casting of the temporal bone: Review of the technique. <i>Annals of Anatomy</i> , 2020 , 228, 1514552.9	
11	Reprint of Corrosion casting of the temporal bone: Review of the technique. <i>Annals of Anatomy</i> , 2020 , 230, 151518	2.9
10	Measurements of the local evoked potential from the cochlear nucleus in patients with an auditory brainstem implant and its implication to auditory perception and audio processor programming. <i>PLoS ONE</i> , 2021 , 16, e0249535	3.7
9	Image Processing of Conventional Computer Tomography Images for Segmentation of the Human Cochlea. <i>Studies in Health Technology and Informatics</i> , 2021 , 281, 73-77	0.5
8	A New Postoperative Adjustable Middle Ear Prosthesis: Presenting Author: Ismail Kuru. <i>Journal of Laryngology and Otology</i> , 2016 , 130, S117-S117	1.8
7	Reconstruction accuracy of an automated serial cross-sectional preparation technique for morphological human temporal bone imaging. <i>Current Directions in Biomedical Engineering</i> , 2019 , 5, 191-194	0.5
6	Covalent coupling of polymers as drug coatings on silicone surfaces for future applications. <i>Current Directions in Biomedical Engineering</i> , 2019 , 5, 311-313	0.5
5	Identification of factors influencing insertion characteristics of cochlear implant electrode carriers. <i>Current Directions in Biomedical Engineering</i> , 2019 , 5, 441-443	0.5
4	Development of biodegradable stents for the treatment of Eustachian tube dysfunction. <i>Current Directions in Biomedical Engineering</i> , 2018 , 4, 505-508	0.5
3	Inkjet printing for localized coating and functionalization of medical devices. <i>Current Directions in Biomedical Engineering</i> , 2018 , 4, 233-236	0.5
2	Hydraulic insertions of cochlear implant electrode arrays into the human cadaver cochlea: preliminary findings. <i>European Archives of Oto-Rhino-Laryngology</i> , 2021 , 1	3.5

1 Purification of Fibroblasts From the Spiral Ganglion.. *Frontiers in Neurology*, **2022**, 13, 877342

4.1