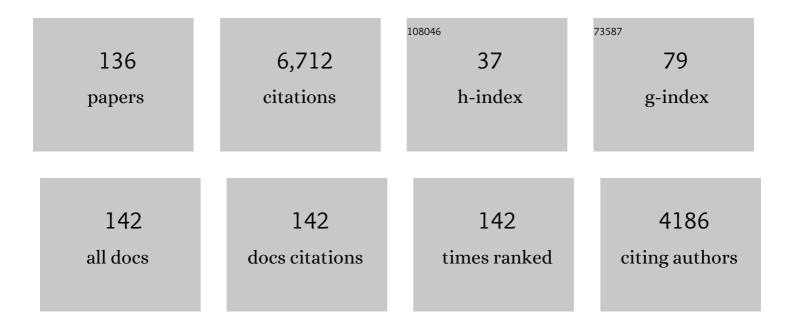
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Cochlear implantation in an animal model documents cochlear damage at the tip of the implant. Brazilian Journal of Otorhinolaryngology, 2022, 88, 546-555. | 0.4 | 3 |
| 2 | Late electrically-evoked compound action potentials as markers for acute micro-lesions of spiral ganglion neurons. Hearing Research, 2022, 413, 108057. | 0.9 | 7 |
| 3 | Cochlear implantation in children born preterm. Developmental Medicine and Child Neurology, 2022, 64, 408-408. | 1.1 | Ο |
| 4 | Temporal acuity is preserved in the auditory midbrain of aged mice. Neurobiology of Aging, 2022, 110, 47-60. | 1.5 | 4 |
| 5 | Distinct multisensory perceptual processes guide enhanced auditory recognition memory in older cochlear implant users. Neurolmage: Clinical, 2022, 33, 102942. | 1.4 | 4 |
| 6 | Deficient Recurrent Cortical Processing in Congenital Deafness. Frontiers in Systems Neuroscience, 2022, 16, 806142. | 1.2 | 10 |
| 7 | Variations in microanatomy of the human modiolus require individualized cochlear implantation. Scientific Reports, 2022, 12, 5047. | 1.6 | 7 |
| 8 | Executive functions and implicit learning skills in cochlear implant users. Laryngo- Rhino- Otologie, 2022, , . | 0.2 | 0 |
| 9 | First results of electrode reimplantation and its hypothetical dependence from artificial brain maturation. European Archives of Oto-Rhino-Laryngology, 2021, 278, 951-958. | 0.8 | 6 |
| 10 | The historic preconditions of neural prostheses. , 2021, , 3-18. | | 0 |
| 11 | Electrode-tissue interface. , 2021, , 77-93. | | Ο |
| 12 | Auditory neuroprostheses. , 2021, , 211-250. | | 0 |
| 13 | History of neuroprostheses. , 2021, , 19-31. | | 0 |
| 14 | Advanced concepts physical chemistry: Electrodes and electrolytes. , 2021, , 167-208. | | 0 |
| 15 | Stimulation rules. , 2021, , 115-134. | | Ο |
| 16 | Ethics and technology development. , 2021, , 33-51. | | 0 |
| 17 | Brain adaptations to neuroprostheses. , 2021, , 149-165. | | 0 |
| 18 | Tissue reaction to neuroprostheses. , 2021, , 135-148. | | 0 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Peripheral nerve and spinal stimulation. , 2021, , 305-328. | | 0 |
| 20 | Pacemaker for the brain: Deep brain stimulation. , 2021, , 291-303. | | 0 |
| 21 | Carbon-Nanotube-Coated Surface Electrodes for Cortical Recordings In Vivo. Nanomaterials, 2021, 11, 1029. | 1.9 | 7 |
| 22 | A cochlear scaling model for accurate anatomy evaluation and frequency allocation in cochlear implantation. Hearing Research, 2021, 403, 108166. | 0.9 | 12 |
| 23 | Unilateral congenital deafness affects binaural cues differently. , 2021, 100, . | | 0 |
| 24 | An event-related brain potential study of auditory attention in cochlear implant users. Clinical Neurophysiology, 2021, 132, 2290-2305. | 0.7 | 6 |
| 25 | Artificial electrical stimulation: Principles, efficacy, and safety. , 2021, , 95-113. | | 0 |
| 26 | Nature and nurture in hearing: Critical periods for therapy of deafness. Acoustical Science and Technology, 2020, 41, 54-58. | 0.3 | 2 |
| 27 | Dynamic range of cochlear implant stimulation is larger in residually hearing cochlea. Acoustical Science and Technology, 2020, 41, 380-381. | 0.3 | 1 |
| 28 | Deafness Weakens Interareal Couplings in the Auditory Cortex. Frontiers in Neuroscience, 2020, 14, 625721. | 1.4 | 19 |
| 29 | Cochlear Implants: Neuroprosthetic Hearing and the Brain. , 2020, , 923-944. | | 0 |
| 30 | Reimplantation as an upgrade with extension of the cochlear coverage. Laryngo- Rhino- Otologie, 2020, 99, . | 0.2 | 0 |
| 31 | Reimplantationen als Upgrade mit Erweiterung der cochleÃ r en Coverage. Laryngo- Rhino- Otologie, 2020, 99, . | 0.2 | 0 |
| 32 | Level coding by phase duration and asymmetric pulse shape reduce channel interactions in cochlear implants. Hearing Research, 2020, 396, 108070. | 0.9 | 4 |
| 33 | Categorical processing of fast temporal sequences in the guinea pig auditory brainstem. Communications Biology, 2019, 2, 265. | 2.0 | 1 |
| 34 | 32-channel mouse EEG: Visual evoked potentials. Journal of Neuroscience Methods, 2019, 325, 108316. | 1.3 | 11 |
| 35 | Neuronal Development of Hearing and Language: Cochlear Implants and Critical Periods. Annual Review of Neuroscience, 2019, 42, 47-65. | 5.0 | 105 |
| 36 | Animal and human studies on developmental monaural hearing loss. Hearing Research, 2019, 380, 60-74. | 0.9 | 35 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Cathodic-leading pulses are more effective than anodic-leading pulses in intracortical microstimulation of the auditory cortex. Journal of Neural Engineering, 2019, 16, 036002. | 1.8 | 11 |
| 38 | Intracochlear near infrared stimulation: Feasibility of optoacoustic stimulation inÂvivo. Hearing Research, 2019, 371, 40-52. | 0.9 | 25 |
| 39 | The Optimal inter-implant interval in pediatric sequential bilateral implantation. Hearing Research, 2019, 372, 80-87. | 0.9 | 29 |
| 40 | 3D Normal Coordinate Systems for Cortical Areas. Lecture Notes Series, Institute for Mathematical Sciences, 2019, , 167-179. | 0.2 | 8 |
| 41 | Congenital Deafness Reduces, But Does Not Eliminate Auditory Responsiveness in Cat Extrastriate Visual Cortex. Neuroscience, 2018, 375, 149-157. | 1.1 | 7 |
| 42 | The Summating Potential Is a Reliable Marker of Electrode Position in Electrocochleography: Cochlear Implant as a Theragnostic Probe. Ear and Hearing, 2018, 39, 687-700. | 1.0 | 18 |
| 43 | Intracortical Microstimulation Modulates Cortical Induced Responses. Journal of Neuroscience, 2018, 38, 7774-7786. | 1.7 | 19 |
| 44 | New thin-film surface electrode array enables brain mapping with high spatial acuity in rodents. Scientific Reports, 2018, 8, 3825. | 1.6 | 38 |
| 45 | Electrical stimulation of the midbrain excites the auditory cortex asymmetrically. Brain Stimulation, 2018, 11, 1161-1174. | 0.7 | 7 |
| 46 | Summationspotentiale als Marker der intracochleäen Elektrodenposition. , 2018, 97, . | | 0 |
| 47 | Summating Potential as a Marker of intracochlear Position of Electrodes. , 2018, 97, . | | 0 |
| 48 | Active and passive processing of novel acoustic stimuli in cochlear-implant patients: An EEG study. , 2018, 97, . | | 0 |
| 49 | Aktive und passive Verarbeitung neuartiger akustischer Reize bei Cochlea-Implantat Patienten: Eine EEG Studie. , 2018, 97, . | | Ο |
| 50 | Origins of thalamic and cortical projections to the posterior auditory field in congenitally deaf cats. Hearing Research, 2017, 343, 118-127. | 0.9 | 37 |
| 51 | Auditory and audio–visual processing in patients with cochlear, auditory brainstem, and auditory midbrain implants: An <scp>EEG</scp> study. Human Brain Mapping, 2017, 38, 2206-2225. | 1.9 | 32 |
| 52 | Active implant for optoacoustic natural sound enhancement. , 2017, , . | | 0 |
| 53 | Encapsulated cell device approach for combined electrical stimulation and neurotrophic treatment of the deaf cochlea. Hearing Research, 2017, 350, 110-121. | 0.9 | 23 |
| 54 | Three-Dimensional Force Profile During Cochlear Implantation Depends on Individual Geometry and Insertion Trauma. Ear and Hearing, 2017, 38, e168-e179. | 1.0 | 42 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Intracortical microstimulation differentially activates cortical layers based on stimulation depth. Brain Stimulation, 2017, 10, 684-694. | 0.7 | 26 |
| 56 | Physiological Mechanisms in Combined Electric–Acoustic Stimulation. Otology and Neurotology, 2017, 38, e215-e223. | 0.7 | 18 |
| 57 | Spiral Form of the Human Cochlea Results from Spatial Constraints. Scientific Reports, 2017, 7, 7500. | 1.6 | 77 |
| 58 | Congenital deafness affects deep layers in primary and secondary auditory cortex. Journal of Comparative Neurology, 2017, 525, 3110-3125. | 0.9 | 37 |
| 59 | Higher-order auditory areas in congenital deafness: Top-down interactions and corticocortical decoupling. Hearing Research, 2017, 343, 50-63. | 0.9 | 59 |
| 60 | Induced cortical responses require developmental sensory experience. Brain, 2017, 140, 3153-3165. | 3.7 | 33 |
| 61 | Optoacoustic effect is responsible for laser-induced cochlear responses. Scientific Reports, 2016, 6, 28141. | 1.6 | 45 |
| 62 | Biohybrid cochlear implants in human neurosensory restoration. Stem Cell Research and Therapy, 2016, 7, 148. | 2.4 | 39 |
| 63 | The contribution of inferior colliculus activity to the auditory brainstem response (ABR) in mice. Hearing Research, 2016, 341, 109-118. | 0.9 | 42 |
| 64 | Consequences of Stimulus Type on Higher-Order Processing in Single-Sided Deaf Cochlear Implant Users. Audiology and Neuro-Otology, 2016, 21, 305-315. | 0.6 | 30 |
| 65 | Cochlear Implant Stimulation of a Hearing Ear Generates Separate Electrophonic and Electroneural Responses. Journal of Neuroscience, 2016, 36, 54-64. | 1.7 | 37 |
| 66 | Cross-Modal Plasticity in Higher-Order Auditory Cortex of Congenitally Deaf Cats Does Not Limit Auditory Responsiveness to Cochlear Implants. Journal of Neuroscience, 2016, 36, 6175-6185. | 1.7 | 79 |
| 67 | ATP-sensitive K+ channels (Kir6.1/SUR1) regulate gap junctional coupling in cochlear-supporting cells. Pflugers Archiv European Journal of Physiology, 2016, 468, 1215-1222. | 1.3 | 2 |
| 68 | Monaural Congenital Deafness Affects Aural Dominance and Degrades Binaural Processing. Cerebral Cortex, 2016, 26, 1762-1777. | 1.6 | 85 |
| 69 | Neurocognitive factors in sensory restoration of early deafness: a connectome model. Lancet Neurology, The, 2016, 15, 610-621. | 4.9 | 236 |
| 70 | Signal and response properties indicate an optoacoustic effect underlying the intra-cochlear laser-optical stimulation. , 2016, , . | | 1 |
| 71 | Somatic memory and gain increase as preconditions for tinnitus: Insights from congenital deafness. Hearing Research, 2016, 333, 37-48. | 0.9 | 32 |
| 72 | How the brain learns to listen: deafness and the bionic ear. E-Neuroforum, 2015, 21, 21-28. | 0.2 | 1 |

| # | Article | lF | CITATIONS |
|----|--|-----|-----------|
| 73 | Wie das Gehirn hören lernt – Gehörlosigkeit und das bionische Ohr. E-Neuroforum, 2015, 21, . | 0.2 | Ο |
| 74 | Strengthening of Hearing Ear Representation Reduces Binaural Sensitivity in Early Single-Sided Deafness. Audiology and Neuro-Otology, 2015, 20, 7-12. | 0.6 | 23 |
| 75 | Deaf white cats. Current Biology, 2015, 25, R351-R353. | 1.8 | 19 |
| 76 | Asymmetric Hearing During Development: The Aural Preference Syndrome and Treatment Options. Pediatrics, 2015, 136, 141-153. | 1.0 | 135 |
| 77 | Auditory feedback modulates development of kitten vocalizations. Cell and Tissue Research, 2015, 361, 279-294. | 1.5 | 10 |
| 78 | How the brain learns to listen: deafness and the bionic ear. E-Neuroforum, 2015, 6, 21-28. | 0.2 | 5 |
| 79 | Electric-acoustic interactions in the hearing cochlea: Single fiber recordings. Hearing Research, 2015, 322, 112-126. | 0.9 | 15 |
| 80 | Optical stimulation of the hearing and deaf cochlea under thermal and stress confinement condition. , 2014, , . | | 2 |
| 81 | Variations in microanatomy of the human cochlea. Journal of Comparative Neurology, 2014, 522, 3245-3261. | 0.9 | 177 |
| 82 | Beta-band activity in auditory pathways reflects speech localization and recognition in bilateral cochlear implant users. Human Brain Mapping, 2014, 35, 3107-3121. | 1.9 | 16 |
| 83 | Hearing and Age-Related Changes in the Gray Mouse Lemur. JARO - Journal of the Association for Research in Otolaryngology, 2014, 15, 993-1005. | 0.9 | 39 |
| 84 | S56: Neural signatures of speech localization and recognition in bilateral cochlear implant users. Clinical Neurophysiology, 2014, 125, S12. | 0.7 | 0 |
| 85 | Insertion site and sealing technique affect residual hearing and tissue formation after cochlear implantation. Hearing Research, 2014, 312, 21-27. | 0.9 | 49 |
| 86 | Response properties of local field potentials and multiunit activity in the mouse visual cortex. Neuroscience, 2013, 254, 141-151. | 1.1 | 22 |
| 87 | TGF-beta superfamily member activin A acts with BDNF and erythropoietin to improve survival of spiral ganglion neurons inAvitro. Neuropharmacology, 2013, 75, 416-425. | 2.0 | 29 |
| 88 | Auditory critical periods: A review from system's perspective. Neuroscience, 2013, 247, 117-133. | 1.1 | 229 |
| 89 | Influence of Core Auditory Cortical Areas on Acoustically Evoked Activity in Contralateral Primary Auditory Cortex. Journal of Neuroscience, 2013, 33, 776-789. | 1.7 | 17 |
| 90 | Single-sided deafness leads to unilateral aural preference within an early sensitive period. Brain, 2013, 136, 180-193. | 3.7 | 160 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Speech Comprehension in Children and Adolescents After Sequential Bilateral Cochlear Implantation With Long Interimplant Interval. Otology and Neurotology, 2013, 34, 682-689. | 0.7 | 55 |
| 92 | Integrative Neuronal Functions in Deafness. Springer Handbook of Auditory Research, 2013, , 151-187. | 0.3 | 1 |
| 93 | Cross-modal plasticity in the congenitally deaf cat. Multisensory Research, 2013, 26, 37. | 0.6 | 3 |
| 94 | To Hear or Not to Hear: Neuroscience of Deafness. Springer Handbook of Auditory Research, 2013, , 1-15. | 0.3 | 0 |
| 95 | Neural representation in the auditory midbrain of the envelope of vocalizations based on a peripheral ear model. Frontiers in Neural Circuits, 2013, 7, 166. | 1.4 | 16 |
| 96 | Unilateral hearing during development: hemispheric specificity in plastic reorganizations. Frontiers in Systems Neuroscience, 2013, 7, 93. | 1.2 | 75 |
| 97 | Reorganization of the Connectivity of Cortical Field DZ in Congenitally Deaf Cat. PLoS ONE, 2013, 8, e60093. | 1.1 | 97 |
| 98 | Dissociated Neurons and Glial Cells Derived from Rat Inferior Colliculi after Digestion with Papain. PLoS ONE, 2013, 8, e80490. | 1.1 | 19 |
| 99 | Nanosecond laser pulse stimulation of the inner ear—a wavelength study. Biomedical Optics Express, 2012, 3, 3332. | 1.5 | 71 |
| 100 | Erratum to "Development of Brainstem-Evoked Responses in Congenital Auditory Deprivation― Neural Plasticity, 2012, 2012, 1-2. | 1.0 | 36 |
| 101 | Development of Brainstem-Evoked Responses in Congenital Auditory Deprivation. Neural Plasticity, 2012, 2012, 1-11. | 1.0 | 23 |
| 102 | Pulsed wavelength-dependent laser stimulation of the inner ear. Biomedizinische Technik, 2012, 57, . | 0.9 | 12 |
| 103 | Developmental neuroplasticity after cochlear implantation. Trends in Neurosciences, 2012, 35, 111-122. | 4.2 | 446 |
| 104 | Auditory Evoked Bursts in Mouse Visual Cortex during Isoflurane Anesthesia. PLoS ONE, 2012, 7, e49855. | 1.1 | 48 |
| 105 | Effect of sensory stimulation in rat barrel cortex, dorsolateral striatum and on corticostriatal functional connectivity. European Journal of Neuroscience, 2011, 33, 461-470. | 1.2 | 10 |
| 106 | Acoustic Events and "Optophonic―Cochlear Responses Induced by Pulsed Near-Infrared LASER. IEEE Transactions on Biomedical Engineering, 2011, 58, 1648-1655. | 2.5 | 82 |
| 107 | Sensitivity to interaural time differences with binaural implants: Is it in the brain?. Cochlear Implants International, 2011, 12, S44-S50. | 0.5 | 5 |
| 108 | Fast Propagating Waves within the Rodent Auditory Cortex. Cerebral Cortex, 2011, 21, 166-177. | 1.6 | 43 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 109 | Adaptive crossmodal plasticity in deaf auditory cortex. Progress in Brain Research, 2011, 191, 251-270. | 0.9 | 33 |
| 110 | Development of the Auditory Cortex. , 2011, , 443-463. | | 7 |
| 111 | Cross-modal plasticity in specific auditory cortices underlies visual compensations in the deaf. Nature Neuroscience, 2010, 13, 1421-1427. | 7.1 | 409 |
| 112 | Cortical Representation of Interaural Time Difference in Congenital Deafness. Cerebral Cortex, 2010, 20, 492-506. | 1.6 | 67 |
| 113 | Profound Deafness in Childhood. New England Journal of Medicine, 2010, 363, 1438-1450. | 13.9 | 320 |
| 114 | Spatiotemporal Patterns of Cortical Activity with Bilateral Cochlear Implants in Congenital Deafness. Journal of Neuroscience, 2009, 29, 811-827. | 1.7 | 55 |
| 115 | Unimodal and cross-modal plasticity in the â€~deaf' auditory cortex . International Journal of Audiology, 2007, 46, 479-493. | 0.9 | 124 |
| 116 | What's to lose and what's to learn: Development under auditory deprivation, cochlear implants and limits of cortical plasticity. Brain Research Reviews, 2007, 56, 259-269. | 9.1 | 264 |
| 117 | Cochlear implants: cortical plasticity in congenital deprivation. Progress in Brain Research, 2006, 157, 283-402. | 0.9 | 121 |
| 118 | Brain Plasticity under Cochlear Implant Stimulation. Advances in Oto-Rhino-Laryngology, 2006, 64, 89-108. | 1.6 | 48 |
| 119 | Recruitment of the auditory cortex in congenitally deaf cats. , 2006, , 193-212. | | 5 |
| 120 | Plastic Changes in the Primary Auditory Cortex in Cochlear Implanted Deaf Cats. , 2005, , 181-190. | | 0 |
| 121 | Postnatal Cortical Development in Congenital Auditory Deprivation. Cerebral Cortex, 2005, 15, 552-562. | 1.6 | 184 |
| 122 | Input Desynchronization and Impaired Columnar Activation in Deprived Auditory Cortex Revealed by Independent Component Analysis. , 2005, , 191-195. | | 1 |
| 123 | The influence of a sensitive period on central auditory development in children with unilateral and bilateral cochlear implants. Hearing Research, 2005, 203, 134-143. | 0.9 | 480 |
| 124 | Central Responses to Electrical Stimulation. Springer Handbook of Auditory Research, 2004, , 213-285. | 0.3 | 14 |
| 125 | Absence of cross-modal reorganization in the primary auditory cortex of congenitally deaf cats. Experimental Brain Research, 2003, 153, 605-613. | 0.7 | 98 |
| 126 | Hearing after Congenital Deafness: Central Auditory Plasticity and Sensory Deprivation. Cerebral Cortex, 2002, 12, 797-807. | 1.6 | 185 |

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| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Plastic Changes in the Auditory Cortex of Congenitally Deaf Cats following Cochlear Implantation. Audiology and Neuro-Otology, 2001, 6, 203-206. | 0.6 | 38 |
| 128 | Delayed Maturation and Sensitive Periods in the Auditory Cortex. Audiology and Neuro-Otology, 2001, 6, 346-362. | 0.6 | 149 |
| 129 | Congenital Auditory Deprivation Reduces Synaptic Activity within the Auditory Cortex in a Layer-specific Manner. Cerebral Cortex, 2000, 10, 714-726. | 1.6 | 177 |
| 130 | Temporal Code and Speech Recognition. Acta Oto-Laryngologica, 2000, 120, 529-530. | 0.3 | 7 |
| 131 | Recruitment of the Auditory Cortex in Congenitally Deaf Cats by Long-Term Cochlear Electrostimulation. Science, 1999, 285, 1729-1733. | 6.0 | 200 |
| 132 | Monitoring of anaesthesia in neurophysiological experiments. NeuroReport, 1999, 10, 781-787. | 0.6 | 29 |
| 133 | Spatial resolution of cochlear implants: the electrical field and excitation of auditory afferents. Hearing Research, 1998, 121, 11-28. | 0.9 | 239 |
| 134 | Neural networks simulating the frequency discrimination of hearing for non-stationary short tone stimuli. Biological Cybernetics, 1996, 74, 359-366. | 0.6 | 5 |
| 135 | On lateral inhibition in the auditory system. General Physiology and Biophysics, 1996, 15, 109-27. | 0.4 | 25 |
| 136 | Neural networks simulating the frequency discrimination of hearing for non-stationary short tone stimuli. Biological Cybernetics, 1996, 74, 359-366. | 0.6 | 3 |