Stefan Stenfelt

List of Publications by Citations

95 papers	3,611 citations	35 h-index	58 g-index
105 ext. papers	4,141 ext. citations	3 avg, IF	5.77 L-index

#	Paper	IF	Citations
95	The Ease of Language Understanding (ELU) model: theoretical, empirical, and clinical advances. *Frontiers in Systems Neuroscience*, **2013**, 7, 31	3.5	481
94	Bone-conducted sound: physiological and clinical aspects. *Otology and Neurotology*, **2005**, 26, 1245-61	2.6	243
93	Transmission properties of bone conducted sound: measurements in cadaver heads. *Journal of the Acoustical Society of America*, **2005**, 118, 2373-91	2.2	161
92	Vibration characteristics of bone conducted sound in vitro. *Journal of the Acoustical Society of America*, **2000**, 107, 422-31	2.2	107
91	Factors contributing to bone conduction: the outer ear. *Journal of the Acoustical Society of America*, **2003**, 113, 902-13	2.2	105
90	Fluid volume displacement at the oval and round windows with air and bone conduction stimulation. *Journal of the Acoustical Society of America*, **2004**, 115, 797-812	2.2	103
89	Working memory capacity and visual-verbal cognitive load modulate auditory-sensory gating in the brainstem: toward a unified view of attention. *Journal of Cognitive Neuroscience*, **2012**, 24, 2147-54	3.1	98
88	Factors contributing to bone conduction: the middle ear. *Journal of the Acoustical Society of America*, **2002**, 111, 947-59	2.2	97
87	Three-dimensional stapes footplate motion in human temporal bones. *Audiology and Neuro-Otology* , **2003**, 8, 140-52	2.2	95
86	Acoustic and physiologic aspects of bone conduction hearing. *Advances in Oto-Rhino-Laryngology*, **2011**, 71, 10-21	1.7	88
85	Transcranial attenuation of bone-conducted sound when stimulation is at the mastoid and at the bone conduction hearing aid position. *Otology and Neurotology*, **2012**, 33, 105-14	2.6	86
84	Transmission of bone-conducted sound in the human skull measured by cochlear vibrations. *International Journal of Audiology*, **2008**, 47, 761-9	2.6	85
83	A model of the occlusion effect with bone-conducted stimulation. *International Journal of Audiology*, **2007**, 46, 595-608	2.6	82
82	Basilar membrane and osseous spiral lamina motion in human cadavers with air and bone conduction stimuli. *Hearing Research*, **2003**, 181, 131-43	3.9	81
81	The signal-cognition interface: interactions between degraded auditory signals and cognitive processes. *Scandinavian Journal of Psychology*, **2009**, 50, 385-93	2.2	76
80	Bilateral fitting of BAHAs and BAHA fitted in unilateral deaf persons: acoustical aspects. *International Journal of Audiology*, **2005**, 44, 178-89	2.6	67
79	Inner ear contribution to bone conduction hearing in the human. *Hearing Research*, **2015**, 329, 41-51	3.9	62

78	Transmission of bone conducted sound - correlation between hearing perception and cochlear vibration. *Hearing Research*, **2013**, 306, 11-20	3.9	59
77	Bilateral bone-anchored hearing aids (BAHAs): an audiometric evaluation. *Laryngoscope*, **2004**, 114, 77-84	3.6	59
76	Hearing impairment, cognition and speech understanding: exploratory factor analyses of a comprehensive test battery for a group of hearing aid users, the n200 study. *International Journal of Audiology*, **2016**, 55, 623-42	2.6	56
75	Percutaneous versus transcutaneous bone conduction implant system: a feasibility study on a cadaver head. *Otology and Neurotology*, **2008**, 29, 1132-9	2.6	55
74	A novel bone conduction implant (BCI): engineering aspects and pre-clinical studies. *International Journal of Audiology*, **2010**, 49, 203-15	2.6	54
73	Middle ear ossicles motion at hearing thresholds with air conduction and bone conduction stimulation. *Journal of the Acoustical Society of America*, **2006**, 119, 2848-58	2.2	54
72	Implications for contralateral bone-conducted transmission as measured by cochlear vibrations. *Otology and Neurotology*, **2011**, 32, 192-8	2.6	51
71	Round window membrane motion with air conduction and bone conduction stimulation. *Hearing Research*, **2004**, 198, 10-24	3.9	49
70	Hearing loss impacts neural alpha oscillations under adverse listening conditions. *Frontiers in Psychology*, **2015**, 6, 177	3.4	48
69	Model predictions for bone conduction perception in the human. *Hearing Research*, **2016**, 340, 135-143	3.9	48
68	Visual information can hinder working memory processing of speech. *Journal of Speech, Language, and Hearing Research*, **2013**, 56, 1120-32	2.8	46
67	Hearing one\'s own voice during phoneme vocalization--transmission by air and bone conduction. *Journal of the Acoustical Society of America*, **2010**, 128, 751-62	2.2	43
66	Linearity of sound transmission through the human skull in vivo. *Journal of the Acoustical Society of America*, **1996**, 99, 2239-43	2.2	42
65	Estimation of bone conduction skull transmission by hearing thresholds and ear-canal sound pressure. *Hearing Research*, **2013**, 299, 19-28	3.9	41
64	Seeing the talker\'s face supports executive processing of speech in steady state noise. *Frontiers in Systems Neuroscience*, **2013**, 7, 96	3.5	38
63	Cognitive spare capacity in older adults with hearing loss. *Frontiers in Aging Neuroscience*, **2014**, 6, 96	5.3	36
62	Air versus bone conduction: an equal loudness investigation. *Hearing Research*, **2002**, 167, 1-12	3.9	36
61	Sensitivity to bone-conducted sound: excitation of the mastoid vs the teeth. *Scandinavian Audiology* , **1999**, 28, 190-8		36

60	An overview of wideband immittance measurements techniques and terminology: you say absorbance, I say reflectance. *Ear and Hearing*, **2013**, 34 Suppl 1, 9S-16S	3.4	35
59	Examination of bone-conducted transmission from sound field excitation measured by thresholds, ear-canal sound pressure, and skull vibrations. *Journal of the Acoustical Society of America*, **2007**, 121, 1576-87	2.2	35
58	Consensus statement: Eriksholm workshop on wideband absorbance measures of the middle ear. *Ear and Hearing*, **2013**, 34 Suppl 1, 78S-79S	3.4	31
57	Influence of stimulation position on the sensitivity for bone conduction hearing aids without skin penetration. *International Journal of Audiology*, **2016**, 55, 439-46	2.6	27
56	Simultaneous cancellation of air and bone conduction tones at two frequencies: extension of the famous experiment by von B□sy. *Hearing Research*, **2007**, 225, 105-16	3.9	26
55	Prediction of conductive hearing loss using wideband acoustic immittance. *Ear and Hearing*, **2013**, 34 Suppl 1, 54S-59S	3.4	25
54	Sound wave propagation on the human skull surface with bone conduction stimulation. *Hearing Research*, **2017**, 355, 1-13	3.9	24
53	A longitudinal study of the bilateral benefit in children with bilateral cochlear implants. *International Journal of Audiology*, **2015**, 54, 77-88	2.6	24
52	Bilateral versus unilateral cochlear implants in children: speech recognition, sound localization, and parental reports. *International Journal of Audiology*, **2012**, 51, 817-32	2.6	24
51	Binaural hearing ability with mastoid applied bilateral bone conduction stimulation in normal hearing subjects. *Journal of the Acoustical Society of America*, **2013**, 134, 481-93	2.2	23
50	Spectrotemporal Modulation Sensitivity as a Predictor of Speech-Reception Performance in Noise With Hearing Aids. *Trends in Hearing*, **2016**, 20,	3.2	21
49	The development of a whole-head human finite-element model for simulation of the transmission of bone-conducted sound. *Journal of the Acoustical Society of America*, **2016**, 140, 1635	2.2	21
48	Interaction between osseous and non-osseous vibratory stimulation of the human cadaveric head. *Hearing Research*, **2016**, 340, 153-160	3.9	21
47	Effect of metabolic presbyacusis on cochlear responses: a simulation approach using a physiologically-based model. *Journal of the Acoustical Society of America*, **2013**, 134, 2833-51	2.2	20
46	A mechanoelectrical mechanism for detection of sound envelopes in the hearing organ. *Nature Communications*, **2018**, 9, 4175	17.4	19
45	Intracranial Pressure and Promontory Vibration With Soft Tissue Stimulation in Cadaveric Human Whole Heads. *Otology and Neurotology*, **2016**, 37, e384-90	2.6	16
44	Factors that introduce intrasubject variability into ear-canal absorbance measurements. *Ear and Hearing*, **2013**, 34 Suppl 1, 60S-64S	3.4	16
43	Binaural Hearing Ability With Bilateral Bone Conduction Stimulation in Subjects With Normal Hearing: Implications for Bone Conduction Hearing Aids. *Ear and Hearing*, **2016**, 37, 690-702	3.4	15

42	Sounds perceived as annoying by hearing-aid users in their daily soundscape. *International Journal of Audiology*, **2014**, 53, 259-69	2.6	15
41	Assessing listening effort by measuring short-term memory storage and processing of speech in noise. *Speech, Language and Hearing*, **2014**, 17, 123-132	1.1	13
40	Acoustic role of the buttress and posterior incudal ligament in human temporal bones. *Otolaryngology - Head and Neck Surgery*, **2001**, 124, 274-8	5.5	13
39	Changes in cochlear function related to acoustic stimulation of cervical vestibular evoked myogenic potential stimulation. *Hearing Research*, **2016**, 340, 43-49	3.9	12
38	Three-dimensional thermal stress analysis of the re-oxidized Ni-YSZ anode functional layer in solid oxide fuel cells. *Journal of Alloys and Compounds*, **2018**, 752, 148-154	5.7	11
37	Adult hearing screening: follow-up and outcomes1. *American Journal of Audiology*, **2013**, 22, 183-5	1.8	11
36	Towards understanding the specifics of cochlear hearing loss: a modelling approach. *International Journal of Audiology*, **2008**, 47 Suppl 2, S10-5	2.6	10
35	A bone-anchored hearing aid for patients with pure sensorineural hearing impairment: a pilot study. *Scandinavian Audiology*, **2000**, 29, 175-85		10
34	Simulation of the power transmission of bone-conducted sound in a finite-element model of the human head. *Biomechanics and Modeling in Mechanobiology*, **2018**, 17, 1741-1755	3.8	9
33	Investigation of Mechanisms in Bone Conduction Hyperacusis With Third Window Pathologies Based on Model Predictions. *Frontiers in Neurology*, **2020**, 11, 966	4.1	9
32	Bone Conduction and the Middle Ear. *Springer Handbook of Auditory Research*, **2013**, 135-169	1.2	8
31	Optimal position of a new bone conduction implant. *Cochlear Implants International*, **2011**, 12 Suppl 1, S136-8	1.7	8
30	Seeing the Talker\x{2019}s Face Improves Free Recall of Speech for Young Adults With Normal Hearing but Not Older Adults With Hearing Loss. *Journal of Speech, Language, and Hearing Research*, **2016**, 59, 590-9	2.8	8
29	Loudness and annoyance of disturbing sounds - perception by normal hearing subjects. *International Journal of Audiology*, **2017**, 56, 775-783	2.6	7
28	Characteristics of Bone-Conduction Devices Simulated in a Finite-Element Model of a Whole Human Head. *Trends in Hearing*, **2019**, 23, 2331216519836053	3.2	7
27	A miniaturized artificial mastoid using a skull simulator. *Scandinavian Audiology*, **1998**, 27, 67-76		7
26	Consequences of Mastoidectomy on Bone Conducted Sound Based on Simulations in a Whole Human Head. *Otology and Neurotology*, **2020**, 41, e1158-e1166	2.6	7
25	Influence of ear canal occlusion and static pressure difference on bone conduction thresholds: implications for mechanisms of bone conduction. *International Journal of Audiology*, **2005**, 44, 302-6	2.6	6

24	The outer ear pathway during hearing by bone conduction. *Hearing Research*, **2021**, 108388	3.9	6
23	Loudness functions with air and bone conduction stimulation in normal-hearing subjects using a categorical loudness scaling procedure. *Hearing Research*, **2013**, 301, 85-92	3.9	4
22	A three-dimensional finite-element model of a human dry skull for bone-conduction hearing. *BioMed Research International*, **2014**, 2014, 519429	3	4
21	Perceived Voice Quality and Voice-Related Problems Among Older Adults With Hearing Impairments. *Journal of Speech, Language, and Hearing Research*, **2018**, 61, 2168-2178	2.8	4
20	Towards a semantic representation for multi-scale finite element biosimulation experiments **2013**,		3
19	Alternative ear-canal measures related to absorbance. *Ear and Hearing*, **2013**, 34 Suppl 1, 72S-77S	3.4	3
18	Review of Whole Head Experimental Cochlear Promontory Vibration with Bone Conduction Stimulation and Investigation of Experimental Setup Effects. *Trends in Hearing*, **2021**, 25, 23312165211052764	3.2	3
17	Vibration direction sensitivity of the cochlea with bone conduction stimulation in guinea pigs. *Scientific Reports*, **2021**, 11, 2855	4.9	3
16	Bone conduction hearing in the Guinea pig and the effect of artificially induced middle ear lesions. *Hearing Research*, **2019**, 379, 21-30	3.9	2
15	Memory performance on the Auditory Inference Span Test is independent of background noise type for young adults with normal hearing at high speech intelligibility. *Frontiers in Psychology*, **2014**, 5, 1490	3.4	2
14	A Physiological Signal Transmission Model to be Used for Specific Diagnosis of Cochlear Impairments **2011**,		2
13	TIME DELAY OF ACOUSTIC TRANSMISSION IN HUMAN MIDDLE EAR **2004**,		2
12	Output performance of the novel active transcutaneous bone conduction implant Sentio at different stimulation sites. *Hearing Research*, **2021**, 108369	3.9	2
11	Measurements of bone conduction auditory brainstem response with the new audiometric bone conduction transducer Radioear B81. *International Journal of Audiology*, **2018**, 57, 577-583	2.6	1
10	How do the medial olivocochlear efferents influence the biomechanics of the outer hair cells and thereby the cochlear amplifier? Simulation results **2015**,		1
9	TRANSCRANIAL TRANSMISSION OF BONE CONDUCTED SOUND MEASURED ACOUSTICALLY AND PSYCHOACOUSTICALLY **2007**,		1
8	Physiological aspects regarding bilateral fitting of BAHAs. *Cochlear Implants International*, **2005**, 6, 83-86	1.7	1
7	Hearing Aid Transducers. *Springer Handbook of Auditory Research*, **2016**, 59-92	1.2	1

6	Perception of One's Own Voice After Hearing-Aid Fitting for Naive Hearing-Aid Users and Hearing-Aid Refitting for Experienced Hearing-Aid Users. *Trends in Hearing*, **2020**, 24, 2331216520932467	3.2	1
5	Development of a finite element model of a human head including auditory periphery for understanding of bone-conducted hearing. *Hearing Research*, **2021**, 108337	3.9	1
4	Simulation of soft tissue stimulation-Indication of a skull bone vibration mechanism in bone conduction hearing.. *Hearing Research*, **2022**, 418, 108471	3.9	1
3	Unilateral versus bilateral bone-anchored hearing aids (BAHAs). *Cochlear Implants International*, **2005**, 6, 79-81	1.7	
2	The Effects of Noise-induced Hair Cell Lesions on Cochlear Electromechanical Responses: A Computational Approach Using a Biophysical Model.. *International Journal for Numerical Methods in Biomedical Engineering*, **2022**, e3582	2.6	
1	IW2 Human hearing from a biomedical engineering point of view(International Workshop on Biomechanics and Tissue Engineering at Micro-and Nanoscale Levels). *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2007**, 2006.19, 3-4	0	