

# Stefan Stenfelt

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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

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 Effects of Noise-induced Hair Cell Lesions on Cochlear Electromechanical Responses: A Computational Approach Using a Biophysical Model.. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2022</b> , e3582	2.6	
94	Simulation of soft tissue stimulation-Indication of a skull bone vibration mechanism in bone conduction hearing.. <i>Hearing Research</i> , <b>2022</b> , 418, 108471	3.9	1
93	Output performance of the novel active transcutaneous bone conduction implant Sentio at different stimulation sites. <i>Hearing Research</i> , <b>2021</b> , 108369	3.9	2
92	The outer ear pathway during hearing by bone conduction. <i>Hearing Research</i> , <b>2021</b> , 108388	3.9	6
91	Review of Whole Head Experimental Cochlear Promontory Vibration with Bone Conduction Stimulation and Investigation of Experimental Setup Effects. <i>Trends in Hearing</i> , <b>2021</b> , 25, 23312165211032764 <sup>3</sup>	3.2	3
90	Vibration direction sensitivity of the cochlea with bone conduction stimulation in guinea pigs. <i>Scientific Reports</i> , <b>2021</b> , 11, 2855	4.9	3
89	Development of a finite element model of a human head including auditory periphery for understanding of bone-conducted hearing. <i>Hearing Research</i> , <b>2021</b> , 108337	3.9	1
88	Investigation of Mechanisms in Bone Conduction Hyperacusis With Third Window Pathologies Based on Model Predictions. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 966	4.1	9
87	Consequences of Mastoidectomy on Bone Conducted Sound Based on Simulations in a Whole Human Head. <i>Otology and Neurotology</i> , <b>2020</b> , 41, e1158-e1166	2.6	7
86	Perception of One's Own Voice After Hearing-Aid Fitting for Naive Hearing-Aid Users and Hearing-Aid Refitting for Experienced Hearing-Aid Users. <i>Trends in Hearing</i> , <b>2020</b> , 24, 2331216520932467 <sup>3,2</sup>	3.2	1
85	Bone conduction hearing in the Guinea pig and the effect of artificially induced middle ear lesions. <i>Hearing Research</i> , <b>2019</b> , 379, 21-30	3.9	2
84	Characteristics of Bone-Conduction Devices Simulated in a Finite-Element Model of a Whole Human Head. <i>Trends in Hearing</i> , <b>2019</b> , 23, 2331216519836053	3.2	7
83	Three-dimensional thermal stress analysis of the re-oxidized Ni-YSZ anode functional layer in solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 752, 148-154	5.7	11
82	Simulation of the power transmission of bone-conducted sound in a finite-element model of the human head. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2018</b> , 17, 1741-1755	3.8	9
81	Measurements of bone conduction auditory brainstem response with the new audiometric bone conduction transducer Radioear B81. <i>International Journal of Audiology</i> , <b>2018</b> , 57, 577-583	2.6	1
80	A mechano-electrical mechanism for detection of sound envelopes in the hearing organ. <i>Nature Communications</i> , <b>2018</b> , 9, 4175	17.4	19
79	Perceived Voice Quality and Voice-Related Problems Among Older Adults With Hearing Impairments. <i>Journal of Speech, Language, and Hearing Research</i> , <b>2018</b> , 61, 2168-2178	2.8	4

78	Loudness and annoyance of disturbing sounds - perception by normal hearing subjects. <i>International Journal of Audiology</i> , <b>2017</b> , 56, 775-783	2.6	7
77	Sound wave propagation on the human skull surface with bone conduction stimulation. <i>Hearing Research</i> , <b>2017</b> , 355, 1-13	3.9	24
76	Spectrotemporal Modulation Sensitivity as a Predictor of Speech-Reception Performance in Noise With Hearing Aids. <i>Trends in Hearing</i> , <b>2016</b> , 20,	3.2	21
75	Intracranial Pressure and Promontory Vibration With Soft Tissue Stimulation in Cadaveric Human Whole Heads. <i>Otology and Neurotology</i> , <b>2016</b> , 37, e384-90	2.6	16
74	Binaural Hearing Ability With Bilateral Bone Conduction Stimulation in Subjects With Normal Hearing: Implications for Bone Conduction Hearing Aids. <i>Ear and Hearing</i> , <b>2016</b> , 37, 690-702	3.4	15
73	Changes in cochlear function related to acoustic stimulation of cervical vestibular evoked myogenic potential stimulation. <i>Hearing Research</i> , <b>2016</b> , 340, 43-49	3.9	12
72	Hearing Aid Transducers. <i>Springer Handbook of Auditory Research</i> , <b>2016</b> , 59-92	1.2	1
71	The development of a whole-head human finite-element model for simulation of the transmission of bone-conducted sound. <i>Journal of the Acoustical Society of America</i> , <b>2016</b> , 140, 1635	2.2	21
70	Interaction between osseous and non-osseous vibratory stimulation of the human cadaveric head. <i>Hearing Research</i> , <b>2016</b> , 340, 153-160	3.9	21
69	Influence of stimulation position on the sensitivity for bone conduction hearing aids without skin penetration. <i>International Journal of Audiology</i> , <b>2016</b> , 55, 439-46	2.6	27
68	Model predictions for bone conduction perception in the human. <i>Hearing Research</i> , <b>2016</b> , 340, 135-143	3.9	48
67	Hearing impairment, cognition and speech understanding: exploratory factor analyses of a comprehensive test battery for a group of hearing aid users, the n200 study. <i>International Journal of Audiology</i> , <b>2016</b> , 55, 623-42	2.6	56
66	Seeing the Talker's Face Improves Free Recall of Speech for Young Adults With Normal Hearing but Not Older Adults With Hearing Loss. <i>Journal of Speech, Language, and Hearing Research</i> , <b>2016</b> , 59, 590-9	2.8	8
65	A longitudinal study of the bilateral benefit in children with bilateral cochlear implants. <i>International Journal of Audiology</i> , <b>2015</b> , 54, 77-88	2.6	24
64	Inner ear contribution to bone conduction hearing in the human. <i>Hearing Research</i> , <b>2015</b> , 329, 41-51	3.9	62
63	How do the medial olivocochlear efferents influence the biomechanics of the outer hair cells and thereby the cochlear amplifier? Simulation results <b>2015</b> ,		1
62	Hearing loss impacts neural alpha oscillations under adverse listening conditions. <i>Frontiers in Psychology</i> , <b>2015</b> , 6, 177	3.4	48
61	Assessing listening effort by measuring short-term memory storage and processing of speech in noise. <i>Speech, Language and Hearing</i> , <b>2014</b> , 17, 123-132	1.1	13

60	Memory performance on the Auditory Inference Span Test is independent of background noise type for young adults with normal hearing at high speech intelligibility. <i>Frontiers in Psychology</i> , <b>2014</b> , 5, 1490	3.4	2
59	Cognitive spare capacity in older adults with hearing loss. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 96	5.3	36
58	A three-dimensional finite-element model of a human dry skull for bone-conduction hearing. <i>BioMed Research International</i> , <b>2014</b> , 2014, 519429	3	4
57	Sounds perceived as annoying by hearing-aid users in their daily soundscape. <i>International Journal of Audiology</i> , <b>2014</b> , 53, 259-69	2.6	15
56	Towards a semantic representation for multi-scale finite element biosimulation experiments <b>2013</b> ,		3
55	Estimation of bone conduction skull transmission by hearing thresholds and ear-canal sound pressure. <i>Hearing Research</i> , <b>2013</b> , 299, 19-28	3.9	41
54	Loudness functions with air and bone conduction stimulation in normal-hearing subjects using a categorical loudness scaling procedure. <i>Hearing Research</i> , <b>2013</b> , 301, 85-92	3.9	4
53	Transmission of bone conducted sound - correlation between hearing perception and cochlear vibration. <i>Hearing Research</i> , <b>2013</b> , 306, 11-20	3.9	59
52	Bone Conduction and the Middle Ear. <i>Springer Handbook of Auditory Research</i> , <b>2013</b> , 135-169	1.2	8
51	Adult hearing screening: follow-up and outcomes <sup>1</sup> . <i>American Journal of Audiology</i> , <b>2013</b> , 22, 183-5	1.8	11
50	Effect of metabolic presbycusis on cochlear responses: a simulation approach using a physiologically-based model. <i>Journal of the Acoustical Society of America</i> , <b>2013</b> , 134, 2833-51	2.2	20
49	Visual information can hinder working memory processing of speech. <i>Journal of Speech, Language, and Hearing Research</i> , <b>2013</b> , 56, 1120-32	2.8	46
48	Binaural hearing ability with mastoid applied bilateral bone conduction stimulation in normal hearing subjects. <i>Journal of the Acoustical Society of America</i> , <b>2013</b> , 134, 481-93	2.2	23
47	Prediction of conductive hearing loss using wideband acoustic immittance. <i>Ear and Hearing</i> , <b>2013</b> , 34 Suppl 1, 54S-59S	3.4	25
46	Factors that introduce intrasubject variability into ear-canal absorbance measurements. <i>Ear and Hearing</i> , <b>2013</b> , 34 Suppl 1, 60S-64S	3.4	16
45	An overview of wideband immittance measurements techniques and terminology: you say absorbance, I say reflectance. <i>Ear and Hearing</i> , <b>2013</b> , 34 Suppl 1, 9S-16S	3.4	35
44	Alternative ear-canal measures related to absorbance. <i>Ear and Hearing</i> , <b>2013</b> , 34 Suppl 1, 72S-77S	3.4	3
43	Consensus statement: Eriksholm workshop on wideband absorbance measures of the middle ear. <i>Ear and Hearing</i> , <b>2013</b> , 34 Suppl 1, 78S-79S	3.4	31

42	The Ease of Language Understanding (ELU) model: theoretical, empirical, and clinical advances. <i>Frontiers in Systems Neuroscience</i> , <b>2013</b> , 7, 31	3.5	481
41	Seeing the talker's face supports executive processing of speech in steady state noise. <i>Frontiers in Systems Neuroscience</i> , <b>2013</b> , 7, 96	3.5	38
40	Bilateral versus unilateral cochlear implants in children: speech recognition, sound localization, and parental reports. <i>International Journal of Audiology</i> , <b>2012</b> , 51, 817-32	2.6	24
39	Working memory capacity and visual-verbal cognitive load modulate auditory-sensory gating in the brainstem: toward a unified view of attention. <i>Journal of Cognitive Neuroscience</i> , <b>2012</b> , 24, 2147-54	3.1	98
38	Transcranial attenuation of bone-conducted sound when stimulation is at the mastoid and at the bone conduction hearing aid position. <i>Otology and Neurotology</i> , <b>2012</b> , 33, 105-14	2.6	86
37	Implications for contralateral bone-conducted transmission as measured by cochlear vibrations. <i>Otology and Neurotology</i> , <b>2011</b> , 32, 192-8	2.6	51
36	Acoustic and physiologic aspects of bone conduction hearing. <i>Advances in Oto-Rhino-Laryngology</i> , <b>2011</b> , 71, 10-21	1.7	88
35	A Physiological Signal Transmission Model to be Used for Specific Diagnosis of Cochlear Impairments <b>2011</b> ,		2
34	Optimal position of a new bone conduction implant. <i>Cochlear Implants International</i> , <b>2011</b> , 12 Suppl 1, S136-8	1.7	8
33	A novel bone conduction implant (BCI): engineering aspects and pre-clinical studies. <i>International Journal of Audiology</i> , <b>2010</b> , 49, 203-15	2.6	54
32	Hearing one's own voice during phoneme vocalization—transmission by air and bone conduction. <i>Journal of the Acoustical Society of America</i> , <b>2010</b> , 128, 751-62	2.2	43
31	The signal-cognition interface: interactions between degraded auditory signals and cognitive processes. <i>Scandinavian Journal of Psychology</i> , <b>2009</b> , 50, 385-93	2.2	76
30	Transmission of bone-conducted sound in the human skull measured by cochlear vibrations. <i>International Journal of Audiology</i> , <b>2008</b> , 47, 761-9	2.6	85
29	Towards understanding the specifics of cochlear hearing loss: a modelling approach. <i>International Journal of Audiology</i> , <b>2008</b> , 47 Suppl 2, S10-5	2.6	10
28	Percutaneous versus transcutaneous bone conduction implant system: a feasibility study on a cadaver head. <i>Otology and Neurotology</i> , <b>2008</b> , 29, 1132-9	2.6	55
27	TRANSCRANIAL TRANSMISSION OF BONE CONDUCTED SOUND MEASURED ACOUSTICALLY AND PSYCHOACOUSTICALLY <b>2007</b> ,		1
26	Examination of bone-conducted transmission from sound field excitation measured by thresholds, ear-canal sound pressure, and skull vibrations. <i>Journal of the Acoustical Society of America</i> , <b>2007</b> , 121, 1576-87	2.2	35
25	A model of the occlusion effect with bone-conducted stimulation. <i>International Journal of Audiology</i> , <b>2007</b> , 46, 595-608	2.6	82

24	Simultaneous cancellation of air and bone conduction tones at two frequencies: extension of the famous experiment by von Békésy. <i>Hearing Research</i> , <b>2007</b> , 225, 105-16	3.9	26
23	IW2 Human hearing from a biomedical engineering point of view(International Workshop on Biomechanics and Tissue Engineering at Micro-and Nanoscale Levels). <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , <b>2007</b> , 2006.19, 3-4	0	
22	Middle ear ossicles motion at hearing thresholds with air conduction and bone conduction stimulation. <i>Journal of the Acoustical Society of America</i> , <b>2006</b> , 119, 2848-58	2.2	54
21	Bilateral fitting of BAHAs and BAHA fitted in unilateral deaf persons: acoustical aspects. <i>International Journal of Audiology</i> , <b>2005</b> , 44, 178-89	2.6	67
20	Influence of ear canal occlusion and static pressure difference on bone conduction thresholds: implications for mechanisms of bone conduction. <i>International Journal of Audiology</i> , <b>2005</b> , 44, 302-6	2.6	6
19	Bone-conducted sound: physiological and clinical aspects. <i>Otology and Neurotology</i> , <b>2005</b> , 26, 1245-61	2.6	243
18	Unilateral versus bilateral bone-anchored hearing aids (BAHAs). <i>Cochlear Implants International</i> , <b>2005</b> , 6, 79-81	1.7	
17	Physiological aspects regarding bilateral fitting of BAHAs. <i>Cochlear Implants International</i> , <b>2005</b> , 6, 83-86	1.7	1
16	Transmission properties of bone conducted sound: measurements in cadaver heads. <i>Journal of the Acoustical Society of America</i> , <b>2005</b> , 118, 2373-91	2.2	161
15	Bilateral bone-anchored hearing aids (BAHAs): an audiometric evaluation. <i>Laryngoscope</i> , <b>2004</b> , 114, 77-84	3.6	59
14	Fluid volume displacement at the oval and round windows with air and bone conduction stimulation. <i>Journal of the Acoustical Society of America</i> , <b>2004</b> , 115, 797-812	2.2	103
13	Round window membrane motion with air conduction and bone conduction stimulation. <i>Hearing Research</i> , <b>2004</b> , 198, 10-24	3.9	49
12	TIME DELAY OF ACOUSTIC TRANSMISSION IN HUMAN MIDDLE EAR <b>2004</b> ,		2
11	Basilar membrane and osseous spiral lamina motion in human cadavers with air and bone conduction stimuli. <i>Hearing Research</i> , <b>2003</b> , 181, 131-43	3.9	81
10	Three-dimensional stapes footplate motion in human temporal bones. <i>Audiology and Neuro-Otology</i> , <b>2003</b> , 8, 140-52	2.2	95
9	Factors contributing to bone conduction: the outer ear. <i>Journal of the Acoustical Society of America</i> , <b>2003</b> , 113, 902-13	2.2	105
8	Factors contributing to bone conduction: the middle ear. <i>Journal of the Acoustical Society of America</i> , <b>2002</b> , 111, 947-59	2.2	97
7	Air versus bone conduction: an equal loudness investigation. <i>Hearing Research</i> , <b>2002</b> , 167, 1-12	3.9	36

6	Acoustic role of the buttress and posterior incudal ligament in human temporal bones. <i>Otolaryngology - Head and Neck Surgery</i> , <b>2001</b> , 124, 274-8	5.5	13
5	A bone-anchored hearing aid for patients with pure sensorineural hearing impairment: a pilot study. <i>Scandinavian Audiology</i> , <b>2000</b> , 29, 175-85		10
4	Vibration characteristics of bone conducted sound in vitro. <i>Journal of the Acoustical Society of America</i> , <b>2000</b> , 107, 422-31	2.2	107
3	Sensitivity to bone-conducted sound: excitation of the mastoid vs the teeth. <i>Scandinavian Audiology</i> , <b>1999</b> , 28, 190-8		36
2	A miniaturized artificial mastoid using a skull simulator. <i>Scandinavian Audiology</i> , <b>1998</b> , 27, 67-76		7
1	Linearity of sound transmission through the human skull in vivo. <i>Journal of the Acoustical Society of America</i> , <b>1996</b> , 99, 2239-43	2.2	42