Ivo Dobrev

List of Publications by Year
in descending order

43 papers	578 citations	623734 14 h-index	677142 22 g-index
48 all docs	48 docs citations	48 times ranked	269 citing authors

#	Article	IF	Citations
1	Measurements of three-dimensional shape and sound-induced motion of the chinchilla tympanic membrane. Hearing Research, 2013, 301, 44-52.	2.0	48
2	Influence of stimulation position on the sensitivity for bone conduction hearing aids without skin penetration. International Journal of Audiology, 2016, 55, 439-446.	1.7	40
3	Sound wave propagation on the human skull surface with bone conduction stimulation. Hearing Research, 2017, 355, 1-13.	2.0	37
4	Digital holographic measurements of shape and three-dimensional sound-induced displacements of tympanic membrane. Optical Engineering, 2013, 52, 101916.	1.0	32
5	Experimental investigation of promontory motion and intracranial pressure following bone conduction: Stimulation site and coupling type dependence. Hearing Research, 2019, 378, 108-125.	2.0	32
6	Contribution of the incudo-malleolar joint to middle-ear sound transmission. Hearing Research, 2015, 327, 218-226.	2.0	30
7	Interaction between osseous and non-osseous vibratory stimulation of the human cadaveric head. Hearing Research, 2016, 340, 153-160.	2.0	28
8	Performance evaluation of a novel piezoelectric subcutaneous bone conduction device. Hearing Research, 2018, 370, 94-104.	2.0	27
9	A MEMS Condenser Microphone-Based Intracochlear Acoustic Receiver. IEEE Transactions on Biomedical Engineering, 2017, 64, 2431-2438.	4.2	22
10	Intracranial Pressure and Promontory Vibration With Soft Tissue Stimulation in Cadaveric Human Whole Heads. Otology and Neurotology, 2016, 37, e384-e390.	1.3	19
11	Magnitude and phase of three-dimensional (3D) velocity vector: Application to measurement of cochlear promontory motion during bone conduction sound transmission. Hearing Research, 2018, 364, 96-103.	2.0	19
12	Full-field transient vibrometry of the human tympanic membrane by local phase correlation and high-speed holography. Journal of Biomedical Optics, 2014, 19, 096001.	2.6	18
13	A method to measure sound transmission via the malleusâ€“incus complex. Hearing Research, 2016, 340, 89-98.	2.0	17
14	Response of the human tympanic membrane to transient acoustic and mechanical stimuli: Preliminary results. Hearing Research, 2016, 340, 15-24.	2.0	16
15	Biomechanics of the incudo-malleolar-joint â€“ Experimental investigations for quasi-static loads. Hearing Research, 2016, 340, 69-78.	2.0	16
16	Sheep as a large animal ear model: Middle-ear ossicular velocities and intracochlear sound pressure. Hearing Research, 2017, 351, 88-97.	2.0	14
17	In-vivo assessment of osseous versus non-osseous transmission pathways of vibratory stimuli applied to the bone and the dura in humans. Hearing Research, 2018, 370, 40-52.	2.0	14
18	Dependence of skull surface wave propagation on stimulation sites and direction under bone conduction. Journal of the Acoustical Society of America, 2020, 147, 1985-2001.	1.1	11

#	Article	IF	Citations
19	Conductive Hearing Loss with Ageâ€"A Histologic and Audiometric Evaluation. Journal of Clinical Medicine, 2021, 10, 2341.	2.4	10
20	Development of an optoelectronic holographic platform for otolaryngology applications. Proceedings of SPIE, 2010, , .	0.8	9
21	Optimization of a Lensless Digital Holographic Otoscope System for Transient Measurements of the Human Tympanic Membrane. Experimental Mechanics, 2015, 55, 459-470.	2.0	9
22	Effects of middle ear quasi-static stiffness on sound transmission quantified by a novel 3-axis optical force sensor. Hearing Research, 2018, 357, 1-9.	2.0	9
23	Experimental investigation of the effect of middle ear in bone conduction. Hearing Research, 2020, 395, 108041.	2.0	8
24	Transcranial attenuation in bone conduction stimulation. Hearing Research, 2022, 419, 108318.	2.0	8
25	Miniaturization as a key factor to the development and application of advanced metrology systems. Proceedings of SPIE, 2012, , .	0.8	7
26	Comparison of sheep and human middle-ear ossicles: anatomy and inertial properties. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2020, 206, 683-700.	1.6	7
27	Packaging Technology for an Implantable Inner Ear MEMS Microphone. Sensors, 2019, 19, 4487.	3.8	6
28	Transcutaneous and percutaneous bone conduction sound propagation in single-sided deaf patients and cadaveric heads. International Journal of Audiology, 2022, 61, 678-685.	1.7	6
29	Contribution of the flexible incudo-malleal joint to middle-ear sound transmission under static pressure loads. Hearing Research, 2021, 406, 108272.	2.0	6
30	Development of a finite element model of a human head including auditory periphery for understanding of bone-conducted hearing. Hearing Research, 2022, 421, 108337.	2.0	6
31	Intracochlear pressure in cadaver heads under bone conduction and intracranial fluid stimulation. Hearing Research, 2022, 421, 108506.	2.0	6
32	Proof of Concept for an Intracochlear Acoustic Receiver for Use in Acute Large Animal Experiments. Sensors, 2018, 18, 3565.	3.8	5
33	Assessing eardrum deformation by digital holography. SPIE Newsroom, 2013, , .	0.1	5
34	Study of the Transient Response of Tympanic Membranes Under Acoustic Excitation. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 1-9.	0.5	5
35	Structural Health Monitoring by Laser Shearography: Experimental and Numerical Investigations. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 149-155.	0.5	4
36	Round Window Reinforcement-Induced Changes in Intracochlear Sound Pressure. Applied Sciences (Switzerland), 2021, 11, 5062.	2.5	2

#	Article	IF	Citations
37	Multiphoton imaging for morphometry of the sandwich-beam structure of the human stapedial annular ligament. Hearing Research, 2019, 378, 63-74.	2.0	1
38	A New Stapes-Head Coupler for the Vibrant Soundbridge System. Audiology and Neuro-Otology, 2021, 26, 1-8.	1.3	1
39	Transient Response of the Eardrum Excited by Localized Mechanical Forces. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 31-37.	0.5	1
40	3D Shape Measurements with High-Speed Fringe Projection and Temporal Phase Unwrapping. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 235-241.	0.5	1
41	CHIC: Cylindrical Helix Imaging Coordinate Registration Fiducial for MRI-guided interventions. , 2012, 2012, 2808-12.		0
42	Acousto-mechanical Response of the Human TM Characterized by High-Speed Digital Holographic Methods. , 2014, , 657-660.		0
43	Multiplexed Holography for Single-Shot Three-Dimensional Shape and Displacement Measurements. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 103-108.	0.5	0