Robert F Labadie

List of Publications by Year
in descending order

83	2,415	218677	223800
papers	citations	26 h-index	46 g-index

83	83	83	1325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cost-Effectiveness of Intraoperative CT Scanning in Cochlear Implantation in Fee-for-Service and Bundled Payment Models. Ear, Nose and Throat Journal, 2022, 101, NP164-NP168.	0.8	2
2	Intraoperative Correction of Cochlear Implant Electrode Translocation. Audiology and Neuro-Otology, 2022, 27, 104-108.	1.3	2
3	Speech recognition as a function of the number of channels for Mid-Scala electrode array recipients. Journal of the Acoustical Society of America, 2022, 152, 67-79.	1.1	2
4	Eyes in Ears: A Miniature Steerable Digital Endoscope for Trans-Nasal Diagnosis of Middle Ear Disease. Annals of Biomedical Engineering, 2021, 49, 219-232.	2.5	12
5	Clinical Implementation of Second-generation Minimally Invasive Image-guided Cochlear Implantation Surgery. Otology and Neurotology, 2021, 42, 702-705.	1.3	8
6	A modular, multi-arm concentric tube robot system with application to transnasal surgery for orbital tumors. International Journal of Robotics Research, 2021, 40, 521-533.	8.5	29
7	Cerebellopontine Angle and Internal Auditory Canal Lipomas: Case Series and Systematic Review. Laryngoscope, 2021, 131, 2081-2087.	2.0	9
8	Speech recognition as a function of the number of channels for an array with large inter-electrode distances. Journal of the Acoustical Society of America, 2021, 149, 2752-2763.	1.1	10
9	Clinical Translation of an Insertion Tool for Minimally Invasive Cochlear Implant Surgery. Journal of Medical Devices, Transactions of the ASME, 2021, 15, 031001.	0.7	1
10	Resident Research Bootcamp: Preparatory Course for Required ACGME Research in O-HNS. Ear, Nose and Throat Journal, 2021, , 014556132110073.	0.8	0
11	Transeustachian Middle Ear Endoscopy Using a Steerable Distal-Camera Tipped Endoscope. Otology and Neurotology, 2021, Publish Ahead of Print, .	1.3	0
12	Cochlear Implantation and Electric Acoustic Stimulation in Children With TMPRSS3 Genetic Mutation. Otology and Neurotology, 2021, 42, 396-401.	1.3	17
13	Hearing Preservation Outcomes Using a Precurved Electrode Array Inserted With an External Sheath. Otology and Neurotology, 2020, 41, 33-38.	1.3	24
14	Use of intraoperative CT scanning for quality control assessment of cochlear implant electrode array placement*. Acta Oto-Laryngologica, 2020, 140, 206-211.	0.9	18
15	Robotic Ear Surgery. Otolaryngologic Clinics of North America, 2020, 53, 1065-1075.	1.1	9
16	Insertion Depth for Optimized Positioning of Precurved Cochlear Implant Electrodes. Otology and Neurotology, 2020, 41, 1066-1071.	1.3	7
17	Custom mastoid-fitting templates to improve cochlear implant electrode insertion trajectory. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1713-1718.	2.8	2
18	Speech recognition with cochlear implants as a function of the number of channels: Effects of electrode placement. Journal of the Acoustical Society of America, 2020, 147, 3646-3656.	1.1	20

#	Article	IF	Citations
19	Effect of Scala Tympani Height on Insertion Depth of Straight Cochlear Implant Electrodes. Otolaryngology - Head and Neck Surgery, 2020, 162, 718-724.	1.9	14
20	Magnetically Steered Robotic Insertion of Cochlear-Implant Electrode Arrays: System Integration and First-In-Cadaver Results. IEEE Robotics and Automation Letters, 2020, 5, 2240-2247.	5.1	32
21	Computational Optimization of Notch Spacing for a Transnasal Ear Endoscopy Continuum Robot. , 2020, , .		6
22	Preoperative prediction of angular insertion depth of lateral wall cochlear implant electrode arrays. Journal of Medical Imaging, 2020, 7, 1.	1.5	5
23	Speech recognition as a function of the number of channels in perimodiolar electrode recipients. Journal of the Acoustical Society of America, 2019, 145, 1556-1564.	1.1	45
24	Intracochlear Electrocochleography: Influence of Scalar Position of the Cochlear Implant Electrode on Postinsertion Results. Otology and Neurotology, 2019, 40, e503-e510.	1.3	27
25	Further Evidence of the Relationship Between Cochlear Implant Electrode Positioning and Hearing Outcomes. Otology and Neurotology, 2019, 40, 617-624.	1.3	97
26	Matched Cohort Comparison Indicates Superiority of Precurved Electrode Arrays. Otology and Neurotology, 2019, 40, 1160-1166.	1.3	32
27	Automatic graph-based method for localization of cochlear implant electrode arrays in clinical CT with sub-voxel accuracy. Medical Image Analysis, 2019, 52, 1-12.	11.6	30
28	A Simple Manual Roller Wheel Insertion Tool for Electrode Array Insertion in Minimally Invasive Cochlear Implant Surgery. , 2019, , .		1
29	Erythrocyte folate, serum vitamin B12, and hearing loss in the 2003-2004 National Health And Nutrition Examination Survey (NHANES). European Journal of Clinical Nutrition, 2018, 72, 720-727.	2.9	12
30	The influence of the subarcuate artery in the superior semicircular canal dehiscence and its frequency on stillbirths: illustrative cases and systematic review. Acta Oto-Laryngologica, 2018, 138, 437-442.	0.9	1
31	Predictive factors for shortâ€•and longâ€•term hearing preservation in cochlear implantation with conventionalâ€•length electrodes. Laryngoscope, 2018, 128, 482-489.	2.0	75
32	Automatic localization of closely spaced cochlear implant electrode arrays in clinical CTs. Medical Physics, 2018, 45, 5030-5040.	3.0	21
33	Automatic Classification of Cochlear Implant Electrode Cavity Positioning. Lecture Notes in Computer Science, 2018, 11073, 47-54.	1.3	1
34	Endoscopic Ear Surgery Skills Training Improves Medical Student Performance. Journal of Surgical Education, 2018, 75, 1480-1485.	2.5	6
35	Prevalence of Extracochlear Electrodes: Computerized Tomography Scans, Cochlear Implant Maps, and Operative Reports. Otology and Neurotology, 2018, 39, e325-e331.	1.3	23
36	Evaluation of the Facial Recess and Cochlea on the Temporal Bone of Stillbirths regarding the Percutaneous Cochlear Implant. International Archives of Otorhinolaryngology, 2018, 22, 260-265.	0.8	1

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37	Preliminary Results With Image-guided Cochlear Implant Insertion Techniques. Otology and Neurotology, 2018, 39, 922-928.	1.3	30
38	The Relationship Between Spectral Modulation Detection and Speech Recognition: Adult Versus Pediatric Cochlear Implant Recipients. Trends in Hearing, 2018, 22, 233121651877117.	1.3	47
39	Validation of automatic cochlear implant electrode localization techniques using Î¼CTs. Journal of Medical Imaging, 2018, 5, 1.	1.5	9
40	Validation of cochlear implant electrode localization techniques. , 2018, , .		1
41	Through the Eustachian Tube and Beyond: A New Miniature Robotic Endoscope to See Into the Middle Ear. IEEE Robotics and Automation Letters, 2017, 2, 1488-1494.	5.1	34
42	Resection planning for robotic acoustic neuroma surgery. Journal of Medical Imaging, 2017, 4, 025002.	1.5	3
43	Human Kinematics of Cochlear Implant Surgery: An Investigation of Insertion Microâ€Motions and Speed Limitations. Otolaryngology - Head and Neck Surgery, 2017, 157, 493-498.	1.9	22
44	Pre-operative Screening and Manual Drilling Strategies to Reduce the Risk of Thermal Injury During Minimally Invasive Cochlear Implantation Surgery. Annals of Biomedical Engineering, 2017, 45, 2184-2195.	2.5	4
45	Retrospective Evaluation of a Technique for Patient-Customized Placement of Precurved Cochlear Implant Electrode Arrays. Otolaryngology - Head and Neck Surgery, 2017, 157, 107-112.	1.9	21
46	Implementation of Image-Guided Cochlear Implant Programming at a Distant Site. Otolaryngology - Head and Neck Surgery, 2017, 156, 933-937.	1.9	4
47	Tip Fold-over in Cochlear Implantation: Case Series. Otology and Neurotology, 2017, 38, 199-206.	1.3	83
48	Safety margins in robotic bone milling: from registration uncertainty to statistically safe surgeries. International Journal of Medical Robotics and Computer Assisted Surgery, 2017, 13, e1773.	2.3	7
49	NIH Funding within Otolaryngology: 2005â€2014. Otolaryngology - Head and Neck Surgery, 2017, 157, 774-780.	1.9	12
50	Cochlear implant phantom for evaluating computed tomography acquisition parameters. Journal of Medical Imaging, 2017, 4, 1.	1.5	2
51	Making robots mill bone more like human surgeons: Using bone density and anatomic information to mill safely and efficiently. , 2016, 2016, 1837-1843.		12
52	Design and Thermal Testing of an Automatic Drill Guide for Less Invasive Cochlear Implantation1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	1
53	Durability of Hearing Preservation after Cochlear Implantation with Conventionalâ€Length Electrodes and Scala Tympani Insertion. Otolaryngology - Head and Neck Surgery, 2016, 154, 907-913.	1.9	24
54	Initial Results With Image-guided Cochlear Implant Programming in Children. Otology and Neurotology, 2016, 37, e63-e69.	1.3	56

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55	Accuracy of linear drilling in temporal bone using drill press system for minimally invasive cochlear implantation. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 483-493.	2.8	3
56	A Compact, Bone-Attached Robot for Mastoidectomy. Journal of Medical Devices, Transactions of the ASME, 2015, 9, 0310031-310037.	0.7	24
57	Image-guided customization of frequency-place mapping in cochlear implants. , 2015, , .		6
58	Availability of Binaural Cues for Pediatric Bilateral Cochlear Implant Recipients. Journal of the American Academy of Audiology, 2015, 26, 289-298.	0.7	14
59	Simulation of trans-nasal endoscopy of the middle ear for visualization of cholesteatoma. , 2015, , .		3
60	Impact of electrode design and surgical approach on scalar location and cochlear implant outcomes. Laryngoscope, 2014, 124, S1-7.	2.0	239
61	An artifact-robust, shape library-based algorithm for automatic segmentation of inner ear anatomy in post-cochlear-implantation CT. , 2014, 9034, 90342V.		19
62	Minimally invasive imageâ€guided cochlear implantation surgery: First report of clinical implementation. Laryngoscope, 2014, 124, 1915-1922.	2.0	98
63	Clinical Evaluation of an Image-Guided Cochlear Implant Programming Strategy. Audiology and Neuro-Otology, 2014, 19, 400-411.	1.3	112
64	Preliminary testing of a compact bone-attached robot for otologic surgery. , 2014, 9036, 903614.		8
65	Automatic segmentation of intra-cochlear anatomy in post-implantation CT of unilateral cochlear implant recipients. Medical Image Analysis, 2014, 18, 605-615.	11.6	41
66	Automatic Localization of Cochlear Implant Electrodes in CT. Lecture Notes in Computer Science, 2014, 17, 331-338.	1.3	44
67	Image-Guidance Enables New Methods for Customizing Cochlear Implant Stimulation Strategies. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 820-829.	4.9	129
68	Analysis of Intersubject Variations in Intracochlear and Middle Ear Surface Anatomy for Cochlear Implantation. Otology and Neurotology, 2013, 34, 1675-1680.	1.3	15
69	Assessment of Electrode Placement and Audiological Outcomes in Bilateral Cochlear Implantation. Otology and Neurotology, 2011, 32, 428-432.	1.3	60
70	Automatic Segmentation of Intracochlear Anatomy in Conventional CT. IEEE Transactions on Biomedical Engineering, 2011, 58, 2625-2632.	4.2	145
71	Automatic identification of cochlear implant electrode arrays for post-operative assessment. Proceedings of SPIE, 2011, 7962, .	0.8	21
72	Can Otolaryngology Compete with Larger Fields Regarding Impact Factor?. Otolaryngology - Head and Neck Surgery, 2011, 145, 15-17.	1.9	1

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73	Clinical Validation Study of Percutaneous Cochlear Access Using Patient-Customized Microstereotactic Frames. Otology and Neurotology, 2010, 31, 94-99.	1.3	71
74	Electroconvulsive Therapy in a Cochlear Implant Patient. Otology and Neurotology, 2010, 31, 64-66.	1.3	12
75	Design of a Novel Device to Provide Assured Seating of Bone Implanted Fiducial Markers. Journal of Medical Devices, Transactions of the ASME, 2010, 4, .	0.7	3
76	Percutaneous access to the petrous apex in vitro using customized micro-stereotactic frames based on image-guided surgical technology. Acta Oto-Laryngologica, 2010, 130, 458-463.	0.9	12
77	Customized, rapid-production microstereotactic table for surgical targeting: description of concept and in vitro validation. International Journal of Computer Assisted Radiology and Surgery, 2009, 4, 273-280.	2.8	85
78	Image-Guided Technique in Neurotology. Otolaryngologic Clinics of North America, 2007, 40, 611-624.	1.1	30
79	Image-guided surgery: what is the accuracy?. Current Opinion in Otolaryngology and Head and Neck Surgery, 2005, 13, 27-31.	1.8	95
80	Minimally Invasive, Image-Guided, Facial-Recess Approach to the Middle Ear: Demonstration of the Concept of Percutaneous Cochlear Access In Vitro. Otology and Neurotology, 2005, 26, 557-562.	1.3	63
81	In vitro assessment of imageâ€guided otologic surgery: Submillimeter accuracy within the region of the temporal bone. Otolaryngology - Head and Neck Surgery, 2005, 132, 435-442.	1.9	54
82	Submillimetric target-registration error using a novel, non-invasive fiducial system for image-guided otologic surgery. Computer Aided Surgery, 2004, 9, 145-153.	1.8	35
83	A Step Towards Characterization of Surgical Actions Involved in Mastoidectomy. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 100-121.	0.4	0