

# Tom Williamson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1430439/publications.pdf>

Version: 2024-02-01

23  
papers

607  
citations

623734

14  
h-index

752698

20  
g-index

24  
all docs

24  
docs citations

24  
times ranked

491  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robots and Tools for Remodeling Bone. IEEE Reviews in Biomedical Engineering, 2020, 13, 184-198.	18.0	8
2	Robotic middle ear access for cochlear implantation: First in man. PLoS ONE, 2019, 14, e0220543.	2.5	67
3	Automated geometric optimization for robotic HIFU treatment of liver tumors. Computers in Biology and Medicine, 2018, 96, 1-7.	7.0	4
4	Accuracy and feasibility of a dedicated image guidance solution for endoscopic lateral skull base surgery. European Archives of Oto-Rhino-Laryngology, 2018, 275, 905-911.	1.6	12
5	A concept for electromagnetic navigated targeting of liver tumors using an angiographic approach. Minimally Invasive Therapy and Allied Technologies, 2018, 27, 51-59.	1.2	2
6	Ultrasound-based liver tracking utilizing a hybrid template/optical flow approach. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1605-1615.	2.8	28
7	IMAGE-GUIDED ROBOTIC COCHLEAR IMPLANT SURGERY. , 2018, , 257-286.		0
8	Robotic cochlear implantation: surgical procedure and first clinical experience. Acta Oto-Laryngologica, 2017, 137, 447-454.	0.9	94
9	Real-Time Prediction of Temperature Elevation During Robotic Bone Drilling Using the Torque Signal. Annals of Biomedical Engineering, 2017, 45, 2088-2097.	2.5	14
10	Population Statistics Approach for Safety Assessment in Robotic Cochlear Implantation. Otology and Neurotology, 2017, 38, 759-764.	1.3	23
11	The 3D Pelvic Inclination Correction System (PICS): A universally applicable coordinate system for isovolumetric imaging measurements, tested in women with pelvic organ prolapse (POP). Computerized Medical Imaging and Graphics, 2017, 59, 28-37.	5.8	20
12	Instrument flight to the inner ear. Science Robotics, 2017, 2, .	17.6	75
13	A Neuromonitoring Approach to Facial Nerve Preservation During Image-guided Robotic Cochlear Implantation. Otology and Neurotology, 2016, 37, 89-98.	1.3	29
14	Feasibility of stereotactic MRI-based image guidance for the treatment of vascular malformations: a phantom study. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 2207-2215.	2.8	0
15	Surface matching for high-accuracy registration of the lateral skull base. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 2097-2103.	2.8	20
16	Temperature Prediction Model for Bone Drilling Based on Density Distribution and In Vivo Experiments for Minimally Invasive Robotic Cochlear Implantation. Annals of Biomedical Engineering, 2016, 44, 1576-1586.	2.5	34
17	Manual Electrode Array Insertion Through a Robot-Assisted Minimal Invasive Cochleostomy. Otology and Neurotology, 2015, 36, 1015-1022.	1.3	14
18	Image-Guided Microsurgery. , 2015, , 91-115.		1

#	ARTICLE	IF	CITATIONS
19	An image-guided robot system for direct cochlear access. Cochlear Implants International, 2014, 15, S11-S13.	1.2	15
20	Mechatronic Feasibility of Minimally Invasive, Atraumatic Cochleostomy. BioMed Research International, 2014, 2014, 1-7.	1.9	7
21	Semiautomatic Cochleostomy Target and Insertion Trajectory Planning for Minimally Invasive Cochlear Implantation. BioMed Research International, 2014, 2014, 1-8.	1.9	45
22	Feasibility of Using EMG for Early Detection of the Facial Nerve During Robotic Direct Cochlear Access. Otology and Neurotology, 2014, 35, 545-554.	1.3	16
23	In Vitro Accuracy Evaluation of Image-Guided Robot System for Direct Cochlear Access. Otology and Neurotology, 2013, 34, 1284-1290.	1.3	76