

# Ryan M Jones

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

878  
citations

566801

15  
h-index

610482

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

861  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Transcranial Ultrasound Imaging of Microbubble Clouds Using a Sparse Hemispherical Array. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1285-1294.	2.5	108
2	Three-dimensional transcranial microbubble imaging for guiding volumetric ultrasound-mediated blood-brain barrier opening. <i>Theranostics</i> , 2018, 8, 2909-2926.	4.6	100
3	Image-guided ultrasound phased arrays are a disruptive technology for non-invasive therapy. <i>Physics in Medicine and Biology</i> , 2016, 61, R206-R248.	1.6	98
4	Transcranial passive acoustic mapping with hemispherical sparse arrays using CT-based skull-specific aberration corrections: a simulation study. <i>Physics in Medicine and Biology</i> , 2013, 58, 4981-5005.	1.6	79
5	The relevance of skull density ratio in selecting candidates for transcranial MR-guided focused ultrasound. <i>Journal of Neurosurgery</i> , 2020, 132, 1785-1791.	0.9	62
6	Experimental demonstration of passive acoustic imaging in the human skull cavity using CT-based aberration corrections. <i>Medical Physics</i> , 2015, 42, 4385-4400.	1.6	58
7	A multi-frequency sparse hemispherical ultrasound phased array for microbubble-mediated transcranial therapy and simultaneous cavitation mapping. <i>Physics in Medicine and Biology</i> , 2016, 61, 8476-8501.	1.6	57
8	Investigation of the Safety of Focused Ultrasound-Induced Blood-Brain Barrier Opening in a Natural Canine Model of Aging. <i>Theranostics</i> , 2017, 7, 3573-3584.	4.6	57
9	Comparison of analytical and numerical approaches for CT-based aberration correction in transcranial passive acoustic imaging. <i>Physics in Medicine and Biology</i> , 2016, 61, 23-36.	1.6	41
10	Ultrafast three-dimensional microbubble imaging <i>in vivo</i> predicts tissue damage volume distributions during nonthermal brain ablation. <i>Theranostics</i> , 2020, 10, 7211-7230.	4.6	36
11	Accumulated thermal dose in MRI-guided focused ultrasound for essential tremor: repeated sonications with low focal temperatures. <i>Journal of Neurosurgery</i> , 2020, 132, 1802-1809.	0.9	31
12	Advances in acoustic monitoring and control of focused ultrasound-mediated increases in blood-brain barrier permeability. <i>British Journal of Radiology</i> , 2019, 92, 20180601.	1.0	25
13	<sc>Echo-Focusing</sc> in Transcranial Focused Ultrasound Thalamotomy for Essential Tremor: A Feasibility Study. <i>Movement Disorders</i> , 2020, 35, 2327-2333.	2.2	23
14	Technical Principles and Clinical Workflow of Transcranial MR-Guided Focused Ultrasound. <i>Stereotactic and Functional Neurosurgery</i> , 2021, 99, 329-342.	0.8	22
15	Implementation of a Skull-Conformal Phased Array for Transcranial Focused Ultrasound Therapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3457-3468.	2.5	20
16	Megahertz rate, volumetric imaging of bubble clouds in sonothrombolysis using a sparse hemispherical receiver array. <i>Physics in Medicine and Biology</i> , 2017, 62, L31-L40.	1.6	14
17	Registration of human skull computed tomography data to an ultrasound treatment space using a sparse high frequency ultrasound hemispherical array. <i>Medical Physics</i> , 2016, 43, 5063-5071.	1.6	10
18	A High-Frequency Phased Array System for Transcranial Ultrasound Delivery in Small Animals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 127-135.	1.7	10

#	ARTICLE	IF	CITATIONS
19	Receiver array design for sonothrombolysis treatment monitoring in deep vein thrombosis. <i>Physics in Medicine and Biology</i> , 2018, 63, 235017.	1.6	8
20	An Ultrasound-Guided Hemispherical Phased Array for Microbubble-Mediated Ultrasound Therapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1776-1787.	2.5	6
21	Investigating a method for non-invasive ultrasound aberration correction through the skull bone. <i>Proceedings of SPIE</i> , 2014, , .	0.8	4
22	An Acoustic Measurement Library for Non-Invasive Trans-Rodent Skull Ultrasonic Focusing at High Frequency. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2184-2191.	2.5	1