

Ryan M Jones

List of Publications by Year in descending order

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22
papers

878
citations

566801

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h-index

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all docs

26
docs citations

26
times ranked

861
citing authors

#	ARTICLE	IF	CITATIONS
1	An Acoustic Measurement Library for Non-Invasive Trans-Rodent Skull Ultrasonic Focusing at High Frequency. IEEE Transactions on Biomedical Engineering, 2022, 69, 2184-2191.	2.5	1
2	An Ultrasound-Guided Hemispherical Phased Array for Microbubble-Mediated Ultrasound Therapy. IEEE Transactions on Biomedical Engineering, 2022, 69, 1776-1787.	2.5	6
3	Technical Principles and Clinical Workflow of Transcranial MR-Guided Focused Ultrasound. Stereotactic and Functional Neurosurgery, 2021, 99, 329-342.	0.8	22
4	Implementation of a Skull-Conformal Phased Array for Transcranial Focused Ultrasound Therapy. IEEE Transactions on Biomedical Engineering, 2021, 68, 3457-3468.	2.5	20
5	A High-Frequency Phased Array System for Transcranial Ultrasound Delivery in Small Animals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 127-135.	1.7	10
6	The relevance of skull density ratio in selecting candidates for transcranial MR-guided focused ultrasound. Journal of Neurosurgery, 2020, 132, 1785-1791.	0.9	62
7	Ultrafast three-dimensional microbubble imaging <i>in vivo</i> predicts tissue damage volume distributions during nonthermal brain ablation. Theranostics, 2020, 10, 7211-7230.	4.6	36
8	<sc>Echo-Focusing</sc> in Transcranial Focused Ultrasound Thalamotomy for Essential Tremor: A Feasibility Study. Movement Disorders, 2020, 35, 2327-2333.	2.2	23
9	Accumulated thermal dose in MRI-guided focused ultrasound for essential tremor: repeated sonications with low focal temperatures. Journal of Neurosurgery, 2020, 132, 1802-1809.	0.9	31
10	Advances in acoustic monitoring and control of focused ultrasound-mediated increases in blood-brain barrier permeability. British Journal of Radiology, 2019, 92, 20180601.	1.0	25
11	Receiver array design for sonothrombolysis treatment monitoring in deep vein thrombosis. Physics in Medicine and Biology, 2018, 63, 235017.	1.6	8
12	Three-dimensional transcranial microbubble imaging for guiding volumetric ultrasound-mediated blood-brain barrier opening. Theranostics, 2018, 8, 2909-2926.	4.6	100
13	Megahertz rate, volumetric imaging of bubble clouds in sonothrombolysis using a sparse hemispherical receiver array. Physics in Medicine and Biology, 2017, 62, L31-L40.	1.6	14
14	Investigation of the Safety of Focused Ultrasound-Induced Blood-Brain Barrier Opening in a Natural Canine Model of Aging. Theranostics, 2017, 7, 3573-3584.	4.6	57
15	Registration of human skull computed tomography data to an ultrasound treatment space using a sparse high frequency ultrasound hemispherical array. Medical Physics, 2016, 43, 5063-5071.	1.6	10
16	Image-guided ultrasound phased arrays are a disruptive technology for non-invasive therapy. Physics in Medicine and Biology, 2016, 61, R206-R248.	1.6	98
17	A multi-frequency sparse hemispherical ultrasound phased array for microbubble-mediated transcranial therapy and simultaneous cavitation mapping. Physics in Medicine and Biology, 2016, 61, 8476-8501.	1.6	57
18	Comparison of analytical and numerical approaches for CT-based aberration correction in transcranial passive acoustic imaging. Physics in Medicine and Biology, 2016, 61, 23-36.	1.6	41

#	ARTICLE	IF	CITATIONS
19	Experimental demonstration of passive acoustic imaging in the human skull cavity using CT-based aberration corrections. Medical Physics, 2015, 42, 4385-4400.	1.6	58
20	Investigating a method for non-invasive ultrasound aberration correction through the skull bone. Proceedings of SPIE, 2014, , .	0.8	4
21	Three-Dimensional Transcranial Ultrasound Imaging of Microbubble Clouds Using a Sparse Hemispherical Array. IEEE Transactions on Biomedical Engineering, 2014, 61, 1285-1294.	2.5	108
22	Transcranial passive acoustic mapping with hemispherical sparse arrays using CT-based skull-specific aberration corrections: a simulation study. Physics in Medicine and Biology, 2013, 58, 4981-5005.	1.6	79