

Samuel Pichardo

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

455
citations

1163117

8
h-index

752698

20
g-index

25
all docs

25
docs citations

25
times ranked

494
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-frequency characterization of the speed of sound and attenuation coefficient for longitudinal transmission of freshly excised human skulls. <i>Physics in Medicine and Biology</i> , 2011, 56, 219-250.	3.0	223
2	Treatment of near-skull brain tissue with a focused device using shear-mode conversion: a numerical study. <i>Physics in Medicine and Biology</i> , 2007, 52, 7313-7332.	3.0	43
3	A viscoelastic model for the prediction of transcranial ultrasound propagation: application for the estimation of shear acoustic properties in the human skull. <i>Physics in Medicine and Biology</i> , 2017, 62, 6938-6962.	3.0	31
4	Magnetic Resonanceâ€“Guided High-Intensity Focused Ultrasound Hyperthermia for Recurrent Rectal Cancer: MR Thermometry Evaluation and Preclinical Validation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 1259-1267.	0.8	29
5	In vivo optimisation study for multi-baseline MR-based thermometry in the context of hyperthermia using MR-guided high intensity focused ultrasound for head and neck applications. <i>International Journal of Hyperthermia</i> , 2014, 30, 579-592.	2.5	25
6	Motion compensation using principal component analysis and projection onto dipole fields for abdominal magnetic resonance thermometry. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 195-207.	3.0	21
7	Superposition method for modelling boundaries between media in viscoelastic finite difference time domain simulations. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 4382-4401.	1.1	12
8	Robotic system for top to bottom MRgFUS therapy of multiple cancer types. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2022, 18, e2364.	2.3	10
9	Predicting highâ€“intensity focused ultrasound thalamotomy lesions using 2D magnetic resonance thermometry and 3D Gaussian modeling. <i>Medical Physics</i> , 2019, 46, 5722-5732.	3.0	8
10	Steering single-element lead zirconate titanate ultrasound transducers using biaxial driving. <i>Ultrasonics</i> , 2021, 110, 106241.	3.9	8
11	Dystonia following thalamic neurosurgery: A single centre experience with MR-guided focused ultrasound thalamotomy. <i>Parkinsonism and Related Disorders</i> , 2020, 71, 1-3.	2.2	6
12	An integrated full-bridge Class-DE ultrasound transducer driver for HIFU applications. , 2016, , .		5
13	Simultaneous Localized Brain Mild Hyperthermia and Blood-Brain Barrier Opening via Feedback-Controlled Transcranial MR-Guided Focused Ultrasound and Microbubbles. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1880-1888.	4.2	5
14	Suboptimal Class DE Operation for Ultrasound Transducer Arrays. , 2018, , .		4
15	Development of custom RF coils for use in a small animal platform for magnetic resonance-guided focused ultrasound hyperthermia compatible with a clinical MRI scanner. <i>International Journal of Hyperthermia</i> , 2018, 35, 348-360.	2.5	4
16	Magnetic Resonanceâ€“guided High-intensity Focused Ultrasound (MRgHIFU) Virtual Treatment Planning for Abdominal Neuroblastoma Utilizing Retrospective Diagnostic 3D CT Images. <i>Journal of Pediatric Hematology/Oncology</i> , 2019, 41, e443-e449.	0.6	4
17	Treatment of localized abscesses induced by methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) using MRgFUS: First in vivo results. , 2012, , .		3
18	Focused ultrasound resolves persistent radiosurgery related change in a patient with tremor. <i>Radiology Case Reports</i> , 2019, 14, 1233-1236.	0.6	3

#	ARTICLE	IF	CITATIONS
19	Multiple Linear Regression Estimation of Onset Time Delay for Experimental Transcranial Narrowband Ultrasound Signals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1032-1039.	3.0	3
20	A robotic magnetic resonance-guided high-intensity focused ultrasound platform for neonatal neurosurgery: Assessment of targeting accuracy and precision in a brain phantom. Medical Physics, 2022, 49, 2120-2135.	3.0	3
21	Sonoporation efficacy on SiHa cells in vitro at raised bath temperatures—experimental validation of a prototype sonoporation device. Journal of Therapeutic Ultrasound, 2015, 3, 19.	2.2	2
22	A phase I study of MR-HIFU hyperthermia (HT) with radiation (RT) and chemotherapy (CT) for recurrent rectal cancer.. Journal of Global Oncology, 2019, 5, 78-78.	0.5	2
23	MatMRI and MathIFU: Matlab{trade mark, serif} toolboxes for real-time monitoring and control of MR-HIFU. AIP Conference Proceedings, 2012, , .	0.4	1
24	Magnetic resonance-guided high intensity focused ultrasound (MR-HIFU) hyperthermia for primary rectal cancer: A virtual feasibility analysis.. Journal of Global Oncology, 2019, 5, 77-77.	0.5	0
25	Application of the Superposition Method with k-wave pseudo-spectral modelling. , 2020, , .		0