

Samuel Pichardo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6185494/publications.pdf>

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	Simultaneous Localized Brain Mild Hyperthermia and Blood-Brain Barrier Opening via Feedback-Controlled Transcranial MR-Guided Focused Ultrasound and Microbubbles. IEEE Transactions on Biomedical Engineering, 2022, 69, 1880-1888.	4.2	5
2	Robotic system for top to bottom MRgFUS therapy of multiple cancer types. International Journal of Medical Robotics and Computer Assisted Surgery, 2022, 18, e2364.	2.3	10
3	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
4	Steering single-element lead zirconate titanate ultrasound transducers using biaxial driving. Ultrasonics, 2021, 110, 106241.	3.9	8
5	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
6	Dystonia following thalamic neurosurgery: A single centre experience with MR-guided focused ultrasound thalamotomy. Parkinsonism and Related Disorders, 2020, 71, 1-3.	2.2	6
7	Application of the Superposition Method with k-wave pseudo-spectral modelling. , 2020, , .		0
8	Motion compensation using principal component analysis and projection onto dipole fields for abdominal magnetic resonance thermometry. Magnetic Resonance in Medicine, 2019, 81, 195-207.	3.0	21
9	Predicting high-intensity focused ultrasound thalamotomy lesions using 2D magnetic resonance thermometry and 3D Gaussian modeling. Medical Physics, 2019, 46, 5722-5732.	3.0	8
10	Focused ultrasound resolves persistent radiosurgery related change in a patient with tremor. Radiology Case Reports, 2019, 14, 1233-1236.	0.6	3
11	Magnetic Resonance-guided High-intensity Focused Ultrasound (MRgHIFU) Virtual Treatment Planning for Abdominal Neuroblastoma Utilizing Retrospective Diagnostic 3D CT Images. Journal of Pediatric Hematology/Oncology, 2019, 41, e443-e449.	0.6	4
12	Superposition method for modelling boundaries between media in viscoelastic finite difference time domain simulations. Journal of the Acoustical Society of America, 2019, 146, 4382-4401.	1.1	12
13	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
14	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
15	Suboptimal Class DE Operation for Ultrasound Transducer Arrays. , 2018, , .		4
16	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. International Journal of Hyperthermia, 2018, 35, 348-360.	2.5	4
17	A viscoelastic model for the prediction of transcranial ultrasound propagation: application for the estimation of shear acoustic properties in the human skull. Physics in Medicine and Biology, 2017, 62, 6938-6962.	3.0	31
18	Magnetic Resonance-Guided High-Intensity Focused Ultrasound Hyperthermia for Recurrent Rectal Cancer: MR Thermometry Evaluation and Preclinical Validation. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1259-1267.	0.8	29

#	ARTICLE	IF	CITATIONS
19	An integrated full-bridge Class-DE ultrasound transducer driver for HIFU applications. , 2016, , .		5
20	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
21	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. International Journal of Hyperthermia, 2014, 30, 579-592.	2.5	25
22	MatMRI and MathIFU: Matlab{trade mark, serif} toolboxes for real-time monitoring and control of MR-HIFU. AIP Conference Proceedings, 2012, , .	0.4	1
23	Treatment of localized abscesses induced by methicillin-resistant Staphylococcus aureus (MRSA) using MRgFUS: First in vivo results. , 2012, , .		3
24	Multi-frequency characterization of the speed of sound and attenuation coefficient for longitudinal transmission of freshly excised human skulls. Physics in Medicine and Biology, 2011, 56, 219-250.	3.0	223
25	Treatment of near-skull brain tissue with a focused device using shear-mode conversion: a numerical study. Physics in Medicine and Biology, 2007, 52, 7313-7332.	3.0	43