

# Christakis Damianou

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

863  
citations

566801

15  
h-index

580395

25  
g-index

68  
all docs

68  
docs citations

68  
times ranked

623  
citing authors

#	ARTICLE	IF	CITATIONS
1	High intensity focused ultrasound ablation of kidney guided by MRI. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 397-404.	0.7	59
2	Acoustic and thermal characterization of agar based phantoms used for evaluating focused ultrasound exposures. <i>Journal of Therapeutic Ultrasound</i> , 2017, 5, 14.	2.2	59
3	MRI compatible head phantom for ultrasound surgery. <i>Ultrasonics</i> , 2015, 57, 144-152.	2.1	53
4	Longitudinal imaging of the ageing mouse. <i>Mechanisms of Ageing and Development</i> , 2016, 160, 93-116.	2.2	47
5	In vitro and in vivo ablation of porcine renal tissues using high-intensity focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 1321-1330.	0.7	37
6	Amyloid $\beta$ Plaque Reduction With Antibodies Crossing the Blood-Brain Barrier, Which Was Opened in 3 Sessions of Focused Ultrasound in a Rabbit Model. <i>Journal of Ultrasound in Medicine</i> , 2017, 36, 2257-2270.	0.8	37
7	Three-axis MR-conditional robot for high-intensity focused ultrasound for treating prostate diseases transrectally. <i>Journal of Therapeutic Ultrasound</i> , 2015, 3, 2.	2.2	29
8	In vitro and in vivo brain ablation created by high-intensity focused ultrasound and monitored by MRI. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 1189-1198.	1.7	26
9	MRI guided focused ultrasound robotic system for the treatment of gynaecological tumors. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2016, 12, 46-52.	1.2	26
10	MRI monitoring of the effect of tissue interfaces in the penetration of high intensity focused ultrasound in kidney in vivo. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 1209-1215.	0.7	25
11	MRI-compatible positioning device for guiding a focused ultrasound system for transrectal treatment of prostate cancer. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2014, 9, 745-753.	1.7	25
12	Positioning device for MRI-guided high intensity focused ultrasound system. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2008, 2, 335-345.	1.7	24
13	MRI guided focused ultrasound robotic system for animal experiments. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2017, 13, e1804.	1.2	21
14	MRI-compatible breast/rib phantom for evaluating ultrasonic thermal exposures. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2018, 14, e1849.	1.2	21
15	MRI-compatible bone phantom for evaluating ultrasonic thermal exposures. <i>Ultrasonics</i> , 2016, 71, 12-19.	2.1	18
16	MRI-guided focused ultrasound robotic system for the treatment of bone cancer. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2017, 13, e1753.	1.2	18
17	MR relaxation properties of tissue-mimicking phantoms. <i>Ultrasonics</i> , 2022, 119, 106600.	2.1	17
18	Characterization of a soft tissue-mimicking agar/wood powder material for MRgFUS applications. <i>Ultrasonics</i> , 2021, 113, 106357.	2.1	16

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19	Ultrasound-assisted dilute acid hydrolysis for production of essential oils, pectin and bacterial cellulose via a citrus processing waste biorefinery. <i>Bioresource Technology</i> , 2021, 342, 126010.	4.8	16
20	Ultrasonic attenuation of an agar, silicon dioxide, and evaporated milk gel phantom. <i>Journal of Medical Ultrasound</i> , 2021, 29, 239.	0.2	16
21	MRI-guided Sonothrombolysis of Rabbit Carotid Artery. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2014, 23, e113-e121.	0.7	15
22	In Vitro Evaluation of Focused Ultrasound-Enhanced TNK-Tissue Plasminogen Activator-Mediated Thrombolysis. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2016, 25, 1864-1877.	0.7	14
23	MRI-guided frameless biopsy robotic system with the inclusion of unfocused ultrasound transducer for brain cancer ablation. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2019, 15, e1951.	1.2	14
24	Robotic system for magnetic resonance guided focused ultrasound ablation of abdominal cancer. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, e2299.	1.2	14
25	Evaluation of focused ultrasound algorithms: Issues for reducing pre-focal heating and treatment time. <i>Ultrasonics</i> , 2016, 65, 145-153.	2.1	13
26	Magnetic resonance image-guided focused ultrasound robotic system for transrectal prostate cancer therapy. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, e2237.	1.2	13
27	MR relaxation times of agar-based tissue-mimicking phantoms. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, e213533.	0.8	13
28	Acoustical properties of 3D printed thermoplastics. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 2854-2864.	0.5	11
29	The Enhancing Effect of Focused Ultrasound on TNK-Tissue Plasminogen Activator-Induced Thrombolysis Using an In Vitro Circulating Flow Model. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2016, 25, 2891-2899.	0.7	10
30	Magnetic resonance imaging-guided focused ultrasound robotic system with the subject placed in the prone position. <i>Digital Medicine</i> , 2020, 6, 24.	0.1	10
31	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.	1.2	10
32	Removing atherosclerotic plaque created using high cholesterol diet in rabbit using ultrasound. <i>Journal of Therapeutic Ultrasound</i> , 2015, 3, 3.	2.2	9
33	Heart ablation using a planar rectangular high intensity ultrasound transducer and MRI guidance. <i>Ultrasonics</i> , 2012, 52, 821-829.	2.1	8
34	Simple methods to test the accuracy of MRgFUS robotic systems. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, e2287.	1.2	8
35	Experimental evaluation of the near-field and far-field heating of focused ultrasound using the thermal dose concept. <i>Ultrasonics</i> , 2021, 116, 106513.	2.1	8
36	Microbubble-Based Sonothrombolysis Using a Planar Rectangular Ultrasonic Transducer. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2017, 26, 1287-1296.	0.7	7

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37	Evaluation of the contrast between tissues and thermal lesions in rabbit in vivo produced by high intensity focused ultrasound using fast spin echo MRI sequences. Journal of Biomedical Science and Engineering, 2011, 04, 51-61.	0.2	7
38	InÂVitro and InÂVivo Evaluation of a Magnetic Resonance Imagingâ€“guided Focused Ultrasound System for Dissolving Clots in Combination with Thrombolytic Drugs. Journal of Stroke and Cerebrovascular Diseases, 2014, 23, 1956-1964.	0.7	6
39	MRI-guided coupling for a focused ultrasound system using a top-to-bottom propagation. Journal of Therapeutic Ultrasound, 2017, 5, 6.	2.2	6
40	Review of Protocols Used in Ultrasound Thrombolysis. Journal of Stroke and Cerebrovascular Diseases, 2017, 26, 2447-2469.	0.7	6
41	Magnetic Resonance Imagingâ€“Guided Focused Ultrasound Positioning System for Preclinical Studies in Small Animals. Journal of Ultrasound in Medicine, 2021, 40, 1343-1352.	0.8	6
42	Sonothrombolysis in Combination with Thrombolytic Drugs in a Rabbit Model Using MRI-Guidance. Engineering, 2013, 05, 352-356.	0.4	6
43	An MRIâ€“conditional motion phantom for the evaluation of highâ€“intensity focused ultrasound protocols. International Journal of Medical Robotics and Computer Assisted Surgery, 2016, 12, 431-441.	1.2	5
44	Focused ultrasound robotic system for very small bore magnetic resonance imaging. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, 1-9.	1.2	5
45	The role of phantoms in magnetic resonance imaging-guided focused ultrasound surgery. Digital Medicine, 2019, 5, 52.	0.1	5
46	Evaluation of a small flat rectangular therapeutic ultrasonic transducer intended for intravascular use. Ultrasonics, 2017, 74, 196-203.	2.1	4
47	A multipurpose positioning device for magnetic resonance imaging-guided focused ultrasound surgery. Digital Medicine, 2017, 3, 138.	0.1	4
48	The role of three-dimensional printing in magnetic resonance imaging-guided focused ultrasound surgery. Digital Medicine, 2018, 4, 22.	0.1	4
49	Full coverage path planning algorithm for MRgFUS therapy. International Journal of Medical Robotics and Computer Assisted Surgery, 2022, 18, e2389.	1.2	4
50	Focused ultrasound phantom model for blood brain barrier disruption. Ultrasonics, 2021, 110, 106244.	2.1	3
51	Magnetic resonance image-guided focused ultrasound robotic system with four computer-controlled axes with endorectal access designed for prostate cancer focal therapy. Digital Medicine, 2020, 6, 32.	0.1	3
52	Evaluation of fast spin echo MRI sequence for an MRI guided high intensity focused ultrasound system for in vivo rabbit liver ablation. Journal of Biomedical Science and Engineering, 2010, 03, 241-246.	0.2	3
53	Evaluation of ultrasonic scattering in agar-based phantoms using 3D printed scattering molds. Journal of Ultrasound, 2022, , 1.	0.7	3
54	Experimental evaluation of high intensity focused ultrasound for fat reduction of ex vivo porcine adipose tissue. Journal of Ultrasound, 2022, , 1.	0.7	3

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55	Treatment of canine and feline sarcoma using MR-guided focused ultrasound system. Journal of Ultrasound, 2022, 25, 895-904.	0.7	3
56	A high intensity focused ultrasound system for veterinary oncology applications. Journal of Medical Ultrasound, 2021, 29, 195.	0.2	3
57	A Prototype MR Compatible Positioning Device for Guiding a Focused Ultrasound System for the Treatment of Abdominal and Thyroid Cancer. International Journal of Monitoring and Surveillance Technologies Research, 2013, 1, 48-60.	0.3	2
58	Liver ablation using a high intensity focused ultrasound system and MRI guidance. , 2009, , .		1
59	Feasibility study for removing calcified material using a planar rectangular ultrasound transducer. Journal of Ultrasound, 2016, 19, 115-123.	0.7	1
60	Simulation of the Thermal and Mechanical Effects of a Planar Rectangular High Intensity Ultrasound Transducer to Be Used for Destroying Atherosclerotic Plaque. Engineering, 2013, 05, 347-351.	0.4	1
61	Software that controls a magnetic resonance imaging compatible robotic system for guiding high-intensity focused ultrasound therapy. Digital Medicine, 2017, 3, 123.	0.1	1
62	Investigating atherosclerotic plaque phantoms for ultrasound therapy. Journal of Ultrasound, 2022, 25, 709-720.	0.7	1
63	Penetration of high intensity focused ultrasound ex vivo and in vivo rabbit brain using MR imaging. , 2009, , .		0
64	Heart ablation using a planar rectangular high intensity focused ultrasound transducer and MRI guidance. AIP Conference Proceedings, 2011, , .	0.3	0
65	Amyloid beta plaque reduction with antibodies crossing the blood brain barrier opened with focused ultrasound in a rabbit model. , 2015, , .		0
66	Comment on "The Enhancing Effect of Focused Ultrasound on TNK-Tissue Plasminogen Activator-Induced Thrombolysis Using an In Vitro circulating Flow Model": Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 2053.	0.7	0
67	In Vitro Enzymatic Clot Lysis Using Focused Ultrasound Waves as an Adjunct to Thrombolytic Drug Tenecteplase and in Combination with Microbubbles. Translational Medicine Research, 2017, , 415-439.	0.0	0
68	Ultrasonic attenuation of canine mammary tumours. Ultrasonics, 2022, 125, 106798.	2.1	0