Elisa E Konofagou

List of Publications by Year
in descending order

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290 papers	11,061 citations	23567 58 h-index	42399 92 g-index
324 all docs	324 docs citations	324 times ranked	6046 citing authors

#	Article	IF	Citations
1	A new elastographic method for estimation and imaging of lateral displacements, lateral strains, corrected axial strains and poissonâ€™s ratios in tissues. Ultrasound in Medicine and Biology, 1998, 24, 1183-1199.	1.5	436
2	Noninvasive, transcranial and localized opening of the blood-brain barrier using focused ultrasound in mice. Ultrasound in Medicine and Biology, 2007, 33, 95-104.	1.5	331
3	A fast normalized cross-correlation calculation method for motion estimation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1347-1357.	3.0	303
4	Elastography: Imaging the elastic properties of soft tissues with ultrasound. Journal of Medical Ultrasonics (2001), 2002, 29, 155-171.	1.3	286
5	Myocardial elastographyâ€”a feasibility study in vivo. Ultrasound in Medicine and Biology, 2002, 28, 475-482.	1.5	274
6	Microbubble-Size Dependence of Focused Ultrasound-Induced Bloodâ€“Brain Barrier Opening in MiceIn Vivo. IEEE Transactions on Biomedical Engineering, 2010, 57, 145-154.	4.2	217
7	In vivotranscranial cavitation threshold detection during ultrasound-induced bloodâ€“brain barrier opening in mice. Physics in Medicine and Biology, 2010, 55, 6141-6155.	3.0	210
8	The Size of Bloodâ€“Brain Barrier Opening Induced by Focused Ultrasound is Dictated by the Acoustic Pressure. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1197-1204.	4.3	205
9	Localized harmonic motion imaging: theory, simulations and experiments. Ultrasound in Medicine and Biology, 2003, 29, 1405-1413.	1.5	181
10	Molecules of Various Pharmacologically-Relevant Sizes Can Cross the Ultrasound-Induced Blood-Brain Barrier Opening in vivo. Ultrasound in Medicine and Biology, 2010, 36, 58-67.	1.5	170
11	Two-dimensional ultrasonic strain rate measurement of the human heart in vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 281-286.	3.0	164
12	The mechanism of interaction between focused ultrasound and microbubbles in blood-brain barrier opening in mice. Journal of the Acoustical Society of America, 2011, 130, 3059-3067.	1.1	154
13	ECG-gated, Mechanical and Electromechanical Wave Imaging of Cardiovascular Tissues In Vivo. Ultrasound in Medicine and Biology, 2007, 33, 1075-1085.	1.5	149
14	Ultrasound-Induced Blood-Brain Barrier Opening. Current Pharmaceutical Biotechnology, 2012, 13, 1332-1345.	1.6	142
15	Long-Term Safety of Repeated Blood-Brain Barrier Opening via Focused Ultrasound with Microbubbles in Non-Human Primates Performing a Cognitive Task. PLoS ONE, 2015, 10, e0125911.	2.5	141
16	Multi-Modality Safety Assessment of Blood-Brain Barrier Opening Using Focused Ultrasound and Definity Microbubbles: A Short-Term Study. Ultrasound in Medicine and Biology, 2010, 36, 1445-1459.	1.5	137
17	Pulse Wave Imaging for Noninvasive and Quantitative Measurement of Arterial Stiffness In Vivo. American Journal of Hypertension, 2010, 23, 393-398.	2.0	137
18	Noninvasive and localized neuronal delivery using short ultrasonic pulses and microbubbles. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16539-16544.	7.1	130

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19	A quantitative pressure and microbubbleâ€size dependence study of focused ultrasoundâ€induced bloodâ€brain barrier opening reversibility in vivo using MRI. Magnetic Resonance in Medicine, 2012, 67, 769-777.	3.0	128
20	Noninvasive, Transient and Selective Blood-Brain Barrier Opening in Non-Human Primates In Vivo. PLoS ONE, 2011, 6, e22598.	2.5	125
21	Optimization of the Ultrasound-Induced Blood-Brain Barrier Opening. Theranostics, 2012, 2, 1223-1237.	10.0	123
22	Noninvasive and Localized Bloodâ€"Brain Barrier Disruption using Focused Ultrasound can be Achieved at Short Pulse Lengths and Low Pulse Repetition Frequencies. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 725-737.	4.3	122
23	Pulse wave imaging of the human carotid artery: an in vivo feasibility study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 174-181.	3.0	121
24	Targeted drug delivery with focused ultrasound-induced blood-brain barrier opening using acoustically-activated nanodroplets. Journal of Controlled Release, 2013, 172, 795-804.	9.9	121
25	Focused ultrasound neuromodulation of cortical and subcortical brain structures using 1.9 MHz. Medical Physics, 2016, 43, 5730-5735.	3.0	112
26	Quantitative viscoelastic parameters measured by harmonic motion imaging. Physics in Medicine and Biology, 2009, 54, 3579-3594.	3.0	108
27	Theoretical Quality Assessment of Myocardial Elastography with In Vivo Validation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2233-2245.	3.0	104
28	Activation of signaling pathways following localized delivery of systemically administered neurotrophic factors across the bloodâ€"brain barrier using focused ultrasound and microbubbles. Physics in Medicine and Biology, 2012, 57, N65-N81.	3.0	102
29	Non-invasive peripheral nerve stimulation via focused ultrasoundin vivo. Physics in Medicine and Biology, 2018, 63, 035011.	3.0	100
30	Tissue displacements during acupuncture using ultrasound elastography techniques. Ultrasound in Medicine and Biology, 2004, 30, 1173-1183.	1.5	99
31	A Novel Noninvasive Technique for Pulse-Wave Imaging and Characterization of Clinically-Significant Vascular Mechanical Properties In Vivo. Ultrasonic Imaging, 2007, 29, 137-154.	2.6	99
32	Feasibility of noninvasive cavitation-guided blood-brain barrier opening using focused ultrasound and microbubbles in nonhuman primates. Applied Physics Letters, 2011, 98, 163704.	3.3	99
33	Pulse Wave Imaging of Normal and Aneurysmal Abdominal AortasIn Vivo. IEEE Transactions on Medical Imaging, 2009, 28, 477-486.	8.9	95
34	Imaging of Wall Motion Coupled With Blood Flow Velocity in the Heart and Vessels in Vivo: A Feasibility Study. Ultrasound in Medicine and Biology, 2011, 37, 980-995.	1.5	95
35	A composite high-frame-rate system for clinical cardiovascular imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2221-2233.	3.0	93
36	Numerical study of a simple transcranial focused ultrasound system applied to blood-brain barrier opening. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2637-2653.	3.0	92

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37	A Clinical System for Non-invasive Bloodâ€“Brain Barrier Opening Using a Neuronavigation-Guided Single-Element Focused Ultrasound Transducer. Ultrasound in Medicine and Biology, 2020, 46, 73-89.	1.5	91
38	Enhanced Delivery and Bioactivity of the Neurturin Neurotrophic Factor through Focused Ultrasoundâ€”Mediated Bloodâ€”Brain Barrier Opening in vivo. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 611-622.	4.3	88
39	Myocardial Elastography at Both High Temporal and Spatial Resolution for the Detection of Infarcts. Ultrasound in Medicine and Biology, 2007, 33, 1206-1223.	1.5	84
40	Noninvasive and Transient Blood-Brain Barrier Opening in the Hippocampus of Alzheimer's Double Transgenic Mice Using Focused Ultrasound. Ultrasonic Imaging, 2008, 30, 189-200.	2.6	84
41	Efficient Blood-Brain Barrier Opening in Primates with Neuronavigation-Guided Ultrasound and Real-Time Acoustic Mapping. Scientific Reports, 2018, 8, 7978.	3.3	84
42	Permeability dependence study of the focused ultrasoundâ€induced bloodâ€“brain barrier opening at distinct pressures and microbubble diameters using DCEâ€MRI. Magnetic Resonance in Medicine, 2011, 66, 821-830.	3.0	83
43	3D-Printed Tissue-Mimicking Phantoms for Medical Imaging and Computational Validation Applications. 3D Printing and Additive Manufacturing, 2014, 1, 14-23.	2.9	81
44	Blood-Brain Barrier Opening in Behaving Non-Human Primates via Focused Ultrasound with Systemically Administered Microbubbles. Scientific Reports, 2015, 5, 15076.	3.3	81
45	Dependence of the reversibility of focused- ultrasound-induced blood-brain barrier opening on pressure and pulse length in vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2257-2265.	3.0	80
46	Microbubble Type and Distribution Dependence of Focused Ultrasound-Induced Bloodâ€“Brain Barrier Opening. Ultrasound in Medicine and Biology, 2014, 40, 130-137.	1.5	80
47	Acoustic cavitation-based monitoring of the reversibility and permeability of ultrasound-induced blood-brain barrier opening. Physics in Medicine and Biology, 2015, 60, 9079-9094.	3.0	80
48	Electromechanical wave imaging for arrhythmias. Physics in Medicine and Biology, 2011, 56, L1-L11.	3.0	79
49	Transcranial cavitation detection in primates during blood-brain barrier opening-a performance assessment study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 966-978.	3.0	79
50	A focused ultrasound method for simultaneous diagnostic and therapeutic applicationsâ€”a simulation study. Physics in Medicine and Biology, 2001, 46, 2967-2984.	3.0	78
51	Real-Time, Transcranial Monitoring of Safe Blood-Brain Barrier Opening in Non-Human Primates. PLoS ONE, 2014, 9, e84310.	2.5	78
52	Electromechanical Wave Imaging of Normal and Ischemic HeartsIn Vivo. IEEE Transactions on Medical Imaging, 2010, 29, 625-635.	8.9	73
53	High-frame rate, full-view myocardial elastography with automated contour tracking in murine left ventricles in vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 240-248.	3.0	72
54	Identifying the Inertial Cavitation Threshold and Skull Effects in a Vessel Phantom Using Focused Ultrasound and Microbubbles. Ultrasound in Medicine and Biology, 2010, 36, 840-852.	1.5	71

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55	Imaging the electromechanical activity of the heart in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8565-8570.	7.1	71
56	Effects of Various Parameters on Lateral Displacement Estimation in Ultrasound Elastography. Ultrasound in Medicine and Biology, 2009, 35, 1352-1366.	1.5	64
57	Unilateral Focused Ultrasound-Induced Blood-Brain Barrier Opening Reduces Phosphorylated Tau from The rTg4510 Mouse Model. Theranostics, 2019, 9, 5396-5411.	10.0	63
58	Effects of the microbubble shell physicochemical properties on ultrasound-mediated drug delivery to the brain. Journal of Controlled Release, 2015, 212, 30-40.	9.9	62
59	Quo vadis elasticity imaging?. Ultrasonics, 2004, 42, 331-336.	3.9	61
60	Pulse wave imaging in normal, hypertensive and aneurysmal human aortasin vivo: a feasibility study. Physics in Medicine and Biology, 2013, 58, 4549-4562.	3.0	60
61	Ultrasound Neuromodulation: Mechanisms and the Potential of Multimodal Stimulation for Neuronal Function Assessment. Frontiers in Physics, 2020, 8, .	2.1	60
62	A clinical feasibility study of atrial and ventricular electromechanical wave imaging. Heart Rhythm, 2013, 10, 856-862.	0.7	59
63	Application of a subâ€“0.1-mm ³ implantable mote for in vivo real-time wireless temperature sensing. Science Advances, 2021, 7, .	10.3	59
64	Single-Element Focused Ultrasound Transducer Method for Harmonic Motion Imaging. Ultrasonic Imaging, 2006, 28, 144-158.	2.6	57
65	In vivostudy of myocardial elastography under graded ischemia conditions. Physics in Medicine and Biology, 2011, 56, 1155-1172.	3.0	56
66	In Vivo Feasibility of Real-Time Monitoring of Focused Ultrasound Surgery (FUS) Using Harmonic Motion Imaging (HMI). IEEE Transactions on Biomedical Engineering, 2010, 57, 7-11.	4.2	54
67	Mapping of cardiac electrical activation with electromechanical wave imaging: An in silicoâ€“in vivo reciprocity study. Heart Rhythm, 2011, 8, 752-759.	0.7	53
68	Non-invasive, Focused Ultrasound-Facilitated Gene Delivery for Optogenetics. Scientific Reports, 2017, 7, 39955.	3.3	53
69	Focused ultrasound-enhanced intranasal brain delivery of brain-derived neurotrophic factor. Scientific Reports, 2016, 6, 28599.	3.3	52
70	Characterizing Focused-Ultrasound Mediated Drug Delivery to the Heterogeneous Primate Brain In Vivo with Acoustic Monitoring. Scientific Reports, 2016, 6, 37094.	3.3	52
71	Amelioration of the nigrostriatal pathway facilitated by ultrasound-mediated neurotrophic delivery in early Parkinson's disease. Journal of Controlled Release, 2019, 303, 289-301.	9.9	50
72	Combining brain perturbation and neuroimaging in non-human primates. NeuroImage, 2021, 235, 118017.	4.2	50

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73	Piecewise Pulse Wave Imaging (pPWI) for Detection and Monitoring of Focal Vascular Disease in Murine Aortas and Carotids In Vivo. IEEE Transactions on Medical Imaging, 2016, 35, 13-28.	8.9	49
74	Preliminary Validation of Angle-Independent Myocardial Elastography Using MR Tagging in a Clinical Setting. Ultrasound in Medicine and Biology, 2008, 34, 1980-1997.	1.5	47
75	Ultrasound for the Brain: A Review of Physical and Engineering Principles, and Clinical Applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 6-20.	3.0	46
76	Noninvasive electromechanical wave imaging and conduction-relevant velocity estimation in vivo. Ultrasonics, 2010, 50, 208-215.	3.9	44
77	Focused Ultrasound-Mediated Blood-Brain Barrier Opening Increases Delivery and Efficacy of Etoposide for Glioblastoma Treatment. International Journal of Radiation Oncology Biology Physics, 2021, 110, 539-550.	0.8	44
78	Elastographic Imaging of the Normal Canine Prostate In Vitro. Ultrasonic Imaging, 1999, 21, 201-215.	2.6	43
79	Focused ultrasound-facilitated brain drug delivery using optimized nanodroplets: vaporization efficiency dictates large molecular delivery. Physics in Medicine and Biology, 2018, 63, 035002.	3.0	42
80	Safety evaluation of a clinical focused ultrasound system for neuronavigation guided blood-brain barrier opening in non-human primates. Scientific Reports, 2021, 11, 15043.	3.3	42
81	Cavitation-modulated inflammatory response following focused ultrasound blood-brain barrier opening. Journal of Controlled Release, 2021, 337, 458-471.	9.9	42
82	Pulse-Wave Propagation in Straight-Geometry Vessels for Stiffness Estimation: Theory, Simulations, Phantoms and In Vitro Findings. Journal of Biomechanical Engineering, 2012, 134, 114502.	1.3	41
83	Targeting Effects on the Volume of the Focused Ultrasound-Induced Bloodâ€“Brain Barrier Opening in Nonhuman Primates In Vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 798-810.	3.0	41
84	Focused ultrasound mediated bloodâ€“brain barrier opening is safe and feasible in a murine pontine glioma model. Scientific Reports, 2021, 11, 6521.	3.3	41
85	The temperature dependence of ultrasound-stimulated acoustic emission. Ultrasound in Medicine and Biology, 2002, 28, 331-338.	1.5	40
86	A New Brain Drug Delivery Strategy: Focused Ultrasound-Enhanced Intranasal Drug Delivery. PLoS ONE, 2014, 9, e108880.	2.5	40
87	Lipid microbubbles as a vehicle for targeted drug delivery using focused ultrasound-induced bloodâ€“brain barrier opening. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1236-1250.	4.3	40
88	Cardiac Strain Imaging With Coherent Compounding of Diverging Waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1212-1222.	3.0	40
89	Performance Assessment of HIFU Lesion Detection by Harmonic Motion Imaging for Focused Ultrasound (HMIFU): A 3-D Finite-Element-Based Framework with Experimental Validation. Ultrasound in Medicine and Biology, 2011, 37, 2013-2027.	1.5	39
90	Physiologic Cardiovascular Strain and Intrinsic Wave Imaging. Annual Review of Biomedical Engineering, 2011, 13, 477-505.	12.3	38

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91	3D Quasi-Static Ultrasound Elastography With Plane Wave <italic>In Vivo</italic>. IEEE Transactions on Medical Imaging, 2017, 36, 357-365.	8.9	38
92	Pulse wave imaging using coherent compounding in a phantom andin vivo. Physics in Medicine and Biology, 2017, 62, 1700-1730.	3.0	37
93	Focused ultrasound enhanced intranasal delivery of brain derived neurotrophic factor produces neurorestorative effects in a Parkinsonâ€™s disease mouse model. Scientific Reports, 2019, 9, 19402.	3.3	37
94	Harmonic Motion Imaging (HMI) for Tumor Imaging and Treatment Monitoring. Current Medical Imaging, 2012, 8, 16-26.	0.8	36
95	The use of ultrasound-stimulated acoustic emission in the monitoring of modulus changes with temperature. Ultrasonics, 2003, 41, 337-345.	3.9	35
96	Electromechanical wave imaging for noninvasive mapping of the 3D electrical activation sequence in canines and humans in vivo. Journal of Biomechanics, 2012, 45, 856-864.	2.1	33
97	Sparse Matrix Beamforming and Image Reconstruction for 2-D HIFU Monitoring Using Harmonic Motion Imaging for Focused Ultrasound (HMIFU) With In Vitro Validation. IEEE Transactions on Medical Imaging, 2014, 33, 2107-2117.	8.9	33
98	Harmonic motion imaging for abdominal tumor detection and high-intensity focused ultrasound ablation monitoring: an in vivo feasibility study in a transgenic mouse model of pancreatic cancer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1662-1673.	3.0	33
99	Longitudinal Motor and Behavioral Assessment of Bloodâ€“Brain Barrier Opening with Transcranial Focused Ultrasound. Ultrasound in Medicine and Biology, 2016, 42, 2270-2282.	1.5	33
100	Image-guided focused ultrasound modulates electrically evoked motor neuronal activity in the mouse peripheral nervous systemin vivo. Journal of Neural Engineering, 2020, 17, 026026.	3.5	33
101	Noninvasive Young's modulus visualization of fibrosis progression and delineation of pancreatic ductal adenocarcinoma (PDAC) tumors using Harmonic Motion Elastography (HME) in vivo. Theranostics, 2020, 10, 4614-4626.	10.0	33
102	Bloodâ€“brain barrier opening with focused ultrasound in experimental models of Parkinson's disease. Movement Disorders, 2019, 34, 1252-1261.	3.9	32
103	An experimental study on the stiffness of size-isolated microbubbles using atomic force microscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 524-534.	3.0	31
104	Estimating localized oscillatory tissue motion for assessment of the underlying mechanical modulus. Ultrasonics, 2004, 42, 951-956.	3.9	30
105	Direct brain infusion can be enhanced with focused ultrasound and microbubbles. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 706-714.	4.3	30
106	Harmonic Motion Imaging of Pancreatic Tumor Stiffness Indicates Disease State and Treatment Response. Clinical Cancer Research, 2020, 26, 1297-1308.	7.0	30
107	Aortic pulse wave velocity measured by pulse wave imaging (PWI): A comparison with applanation tonometry. Artery Research, 2011, 5, 65.	0.6	29
108	Displacement Imaging for Focused Ultrasound Peripheral Nerve Neuromodulation. IEEE Transactions on Medical Imaging, 2020, 39, 3391-3402.	8.9	29

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109	Single-heartbeat electromechanical wave imaging with optimal strain estimation using temporally unequispaced acquisition sequences. Physics in Medicine and Biology, 2012, 57, 1095-1112.	3.0	28
110	3D Myocardial Elastography <italic>In Vivo</italic>. IEEE Transactions on Medical Imaging, 2017, 36, 618-627.	8.9	28
111	Focused ultrasound excites action potentials in mammalian peripheral neurons in part through the mechanically gated ion channel PIEZO2. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115821119.	7.1	28
112	Monitoring and Staging Abdominal Aortic Aneurysm Disease With Pulse Wave Imaging. Ultrasound in Medicine and Biology, 2014, 40, 2404-2414.	1.5	27
113	Modulation of Brain Function and Behavior by Focused Ultrasound. Current Behavioral Neuroscience Reports, 2018, 5, 153-164.	1.3	27
114	Using ultrasound to understand acupuncture. IEEE Engineering in Medicine and Biology Magazine, 2005, 24, 41-46.	0.8	26
115	Intracardiac myocardial elastography in canines and humans in vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 337-349.	3.0	26
116	Tumor characterization and treatment monitoring of postsurgical human breast specimens using harmonic motion imaging (HMI). Breast Cancer Research, 2016, 18, 46.	5.0	26
117	Pharmacokinetic analysis and drug delivery efficiency of the focused ultrasound-induced blood-brain barrier opening in non-human primates. Magnetic Resonance Imaging, 2017, 37, 273-281.	1.8	26
118	Multi-parametric monitoring and assessment of high-intensity focused ultrasound (HIFU) boiling by harmonic motion imaging for focused ultrasound (HMIFU): anex vivofeasibility study. Physics in Medicine and Biology, 2014, 59, 1121-1145.	3.0	25
119	Detection of aortic wall inclusions using regional pulse wave propagation and velocity in silico. Artery Research, 2012, 6, 114.	0.6	24
120	High intensity focused ultrasound (HIFU) focal spot localization using harmonic motion imaging (HMI). Physics in Medicine and Biology, 2015, 60, 5911-5924.	3.0	24
121	The effect of temperature dependent tissue parameters on acoustic radiation force induced displacements. Physics in Medicine and Biology, 2016, 61, 7427-7447.	3.0	24
122	An inverse approach to determining spatially varying arterial compliance using ultrasound imaging. Physics in Medicine and Biology, 2016, 61, 5486-5507.	3.0	24
123	Pulse Wave Imaging in Carotid Artery Stenosis Human Patients in Vivo. Ultrasound in Medicine and Biology, 2019, 45, 353-366.	1.5	24
124	Mapping the longitudinal wall stiffness heterogeneities within intact canine aortas using Pulse Wave Imaging (PWI) ex vivo. Journal of Biomechanics, 2013, 46, 1866-1874.	2.1	23
125	Toward a Cognitive Neural Prosthesis Using Focused Ultrasound. Frontiers in Neuroscience, 2017, 11, 607.	2.8	23
126	Acoustic Holograms for Bilateral Blood-Brain Barrier Opening in a Mouse Model. IEEE Transactions on Biomedical Engineering, 2022, 69, 1359-1368.	4.2	23

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127	Simulation Study of Amplitude-Modulated (AM) Harmonic Motion Imaging (HMI) for Stiffness Contrast Quantification with Experimental Validation. Ultrasonic Imaging, 2010, 32, 154-176.	2.6	22
128	Elasticity mapping of murine abdominal organsin vivousing harmonic motion imaging (HMI). Physics in Medicine and Biology, 2016, 61, 5741-5754.	3.0	22
129	Validation of electromechanical wave imaging in a canine model during pacing and sinus rhythm. Heart Rhythm, 2016, 13, 2221-2227.	0.7	22
130	Fast lesion mapping during HIFU treatment using harmonic motion imaging guided focused ultrasound (HMIgFUS)in vitroandin vivo. Physics in Medicine and Biology, 2017, 62, 3111-3123.	3.0	22
131	Time-Domain Simulation of Ultrasound Propagation in a Tissue-Like Medium Based on the Resolution of the Nonlinear Acoustic Constitutive Relations. Acta Acustica United With Acustica, 2016, 102, 876-892.	0.8	22
132	Angle-independent and multi-dimensional myocardial elastography â€“ From theory to clinical validation. Ultrasonics, 2008, 48, 563-567.	3.9	21
133	Feasibility and Validation of 4-D Pulse Wave Imaging in Phantoms and In Vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1305-1317.	3.0	21
134	Electromechanical Wave Imaging of Biologically and Electrically Paced Canine Hearts inÂVivo. Ultrasound in Medicine and Biology, 2014, 40, 177-187.	1.5	20
135	Assessing the atrial electromechanical coupling during atrial focal tachycardia, flutter, and fibrillation using electromechanical wave imaging in humans. Computers in Biology and Medicine, 2015, 65, 161-167.	7.0	20
136	Electromechanical wave imaging (EWI) validation in all four cardiac chambers with 3D electroanatomic mapping in caninesin vivo. Physics in Medicine and Biology, 2016, 61, 8105-8119.	3.0	20
137	Assessing the Stability of Aortic Aneurysms with Pulse Wave Imaging. Radiology, 2016, 281, 772-781.	7.3	20
138	4D cardiac electromechanical activation imaging. Computers in Biology and Medicine, 2019, 113, 103382.	7.0	20
139	Numerical modeling of ultrasound heating for the correction of viscous heating artifacts in soft tissue temperature measurements. Applied Physics Letters, 2019, 114, 203702.	3.3	20
140	Pulse Wave Imaging Coupled With Vector Flow Mapping: A Phantom, Simulation, and In Vivo Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2516-2531.	3.0	20
141	Pulse inversion enhances the passive mapping of microbubble-based ultrasound therapy. Applied Physics Letters, 2018, 113, 044102.	3.3	19
142	Adaptive Pulse Wave Imaging: Automated Spatial Vessel Wall Inhomogeneity Detection in Phantoms and in-Vivo. IEEE Transactions on Medical Imaging, 2020, 39, 259-269.	8.9	19
143	Cross-correlation analysis of pulse wave propagation in arteries: in vitro validation and in vivo feasibility. Physics in Medicine and Biology, 2018, 63, 115006.	3.0	18
144	ExÂVivo Characterization of Canine Liver Tissue Viscoelasticity after High-Intensity Focused Ultrasound Ablation. Ultrasound in Medicine and Biology, 2014, 40, 341-350.	1.5	17

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145	Non-contact, ultrasound-based indentation method for measuring elastic properties of biological tissues using Harmonic Motion Imaging (HMI). Physics in Medicine and Biology, 2015, 60, 2853-2868.	3.0	17
146	Bioavailability and cytosolic kinases modulate response to deoxynucleoside therapy in TK2 deficiency. EBioMedicine, 2019, 46, 356-367.	6.1	17
147	Arterial wall mechanical inhomogeneity detection and atherosclerotic plaque characterization using high frame rate pulse wave imaging in carotid artery disease patients in vivo. Physics in Medicine and Biology, 2020, 65, 025010.	3.0	17
148	High-Resolution Focused Ultrasound Neuromodulation Induces Limb-Specific Motor Responses in Mice in Vivo. Ultrasound in Medicine and Biology, 2021, 47, 998-1013.	1.5	16
149	Imaging the mechanics and electromechanics of the heart. , 2006, Suppl, 6648-51.		15
150	Optimization of Transmit Parameters in Cardiac Strain Imaging With Full and Partial Aperture Coherent Compounding. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 684-696.	3.0	15
151	Non-invasive optogenetics with ultrasound-mediated gene delivery and red-light excitation. Brain Stimulation, 2022, 15, 927-941.	1.6	15
152	Radiation-force-based estimation of acoustic attenuation using harmonic motion imaging (HMI) in phantoms andin vitrolivers before and after HIFU ablation. Physics in Medicine and Biology, 2015, 60, 7499-7512.	3.0	14
153	Performance assessment of pulse wave imaging using conventional ultrasound in canine aortas ex vivo and normal human arteries in vivo. Artery Research, 2015, 11, 19.	0.6	14
154	Differential displacement of soft tissue layers from manual therapy loading. Clinical Biomechanics, 2016, 33, 66-72.	1.2	14
155	Atrophy associated with tau pathology precedes overt cell death in a mouse model of progressive tauopathy. Science Advances, 2020, 6, .	10.3	14
156	Noninvasive localization of cardiac arrhythmias using electromechanical wave imaging. Science Translational Medicine, 2020, 12, .	12.4	14
157	Real-Time Passive Acoustic Mapping Using Sparse Matrix Multiplication. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 164-177.	3.0	14
158	Evaluation of Coronary Artery Disease Using Myocardial Elastography with Diverging Wave Imaging: Validation against Myocardial Perfusion Imaging and Coronary Angiography. Ultrasound in Medicine and Biology, 2017, 43, 893-902.	1.5	13
159	Reproducibility and Angle Independence of Electromechanical Wave Imaging for the Measurement of Electromechanical Activation during Sinus Rhythm in Healthy Humans. Ultrasound in Medicine and Biology, 2017, 43, 2256-2268.	1.5	13
160	Iterative Curve Fitting of the Bioheat Transfer Equation for Thermocouple-Based Temperature Estimation $In~ Vitro$ and $In~ Vivo$. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 70-80.	3.0	13
161	Temporal Stability of Lipid-Shelled Microbubbles During Acoustically-Mediated Blood-Brain Barrier Opening. Frontiers in Physics, 2020, 8, .	2.1	13
162	Displacement Imaging During Focused Ultrasound Median Nerve Modulation: A Preliminary Study in Human Pain Sensation Mitigation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 526-537.	3.0	13

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