Elisa E Konofagou

List of Publications by Year
in descending order

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290 papers	11,061 citations	27035 58 h-index	48101 92 g-index
324 all docs	324 docs citations	324 times ranked	6798 citing authors

#	Article	IF	Citations
1	Adaptive Wall Shear Stress Imaging in Phantoms, Simulations and In Vivo. IEEE Transactions on Biomedical Engineering, 2023, 70, 154-165.	2.5	6
2	Acoustic Holograms for Bilateral Blood-Brain Barrier Opening in a Mouse Model. IEEE Transactions on Biomedical Engineering, 2022, 69, 1359-1368.	2.5	23
3	Transcranial Theranostic Ultrasound for Pre-Planning and Blood-Brain Barrier Opening: A Feasibility Study Using an Imaging Phased Array In Vitro and In Vivo. IEEE Transactions on Biomedical Engineering, 2022, 69, 1481-1490.	2.5	10
4	FUS-Net: U-Net-Based FUS Interference Filtering. IEEE Transactions on Medical Imaging, 2022, 41, 915-924.	5.4	5
5	Neuronal responses to focused ultrasound are gated by pre-stimulation brain rhythms. Brain Stimulation, 2022, 15, 233-243.	0.7	2
6	Myocardial Strain Imaging With Electrocardiogram-Gated and Coherent Compounding for Early Diagnosis of Coronary Artery Disease. Ultrasound in Medicine and Biology, 2022, 48, 626-637.	0.7	4
7	Elasticity Quantification Using an Empirical Relationship Between Single Transducer â€“Harmonic Motion Imaging-Derived Displacement Versus Oscillation Frequency. , 2022, , .		0
8	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.	3.3	28
9	Imaging of Single Transducer-Harmonic Motion Imaging-Derived Displacements at Several Oscillation Frequencies Simultaneously. IEEE Transactions on Medical Imaging, 2022, 41, 3099-3115.	5.4	5
10	MODL-24. Focused ultrasound-mediated blood-brain barrier opening and panobinostat in a thalamic syngeneic murine DMG model is feasible and safe.. Neuro-Oncology, 2022, 24, i174-i174.	0.6	0
11	MODL-25. Radiation and focused ultrasoundâ€“mediated bloodâ€“brain barrier opening for DMG: safety and feasibility of combinatorial therapy. Neuro-Oncology, 2022, 24, i174-i174.	0.6	0
12	Non-invasive optogenetics with ultrasound-mediated gene delivery and red-light excitation. Brain Stimulation, 2022, 15, 927-941.	0.7	15
13	Real-Time Passive Acoustic Mapping Using Sparse Matrix Multiplication. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 164-177.	1.7	14
14	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.	1.7	13
15	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.	1.7	46
16	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.	1.7	20
17	Pulse wave imaging for the mechanical assessment of atherosclerotic plaques. , 2021, , 529-542.		0
18	Synchronous Temperature Variation Monitoring During Ultrasound Imaging and/or Treatment Pulse Application: A Phantom Study. IEEE Open Journal of Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 1, 1-10.	0.9	3

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19	Real-Time Positron Emission Tomography Evaluation of Topotecan Brain Kinetics after Ultrasound-Mediated Bloodâ€“Brain Barrier Permeability. Pharmaceutics, 2021, 13, 405.	2.0	7
20	Focused ultrasound mediated bloodâ€“brain barrier opening is safe and feasible in a murine pontine glioma model. Scientific Reports, 2021, 11, 6521.	1.6	41
21	High-Resolution Focused Ultrasound Neuromodulation Induces Limb-Specific Motor Responses in Mice in Vivo. Ultrasound in Medicine and Biology, 2021, 47, 998-1013.	0.7	16
22	An analytical model of full-field displacement and strain induced by amplitude-modulated focused ultrasound in harmonic motion imaging. Physics in Medicine and Biology, 2021, 66, 075017.	1.6	0
23	Application of a subâ€“0.1-mm ³ implantable mote for in vivo real-time wireless temperature sensing. Science Advances, 2021, 7, .	4.7	59
24	Feasibility of Harmonic Motion Imaging Using a Single Transducer: In Vivo Imaging of Breast Cancer in a Mouse Model and Human Subjects. IEEE Transactions on Medical Imaging, 2021, 40, 1390-1404.	5.4	10
25	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.	0.4	44
26	Combining brain perturbation and neuroimaging in non-human primates. NeuroImage, 2021, 235, 118017.	2.1	50
27	Cardiac Resynchronization Therapy Response Assessment with Electromechanical Activation Mapping within 24 Hours of Device Implantation: AÂPilot Study. Journal of the American Society of Echocardiography, 2021, 34, 757-766.e8.	1.2	2
28	Safety evaluation of a clinical focused ultrasound system for neuronavigation guided blood-brain barrier opening in non-human primates. Scientific Reports, 2021, 11, 15043.	1.6	42
29	Contrast-Free Detection of Focused Ultrasound-Induced Blood-Brain Barrier Opening Using Diffusion Tensor Imaging. IEEE Transactions on Biomedical Engineering, 2021, 68, 2499-2508.	2.5	4
30	Cavitation-modulated inflammatory response following focused ultrasound blood-brain barrier opening. Journal of Controlled Release, 2021, 337, 458-471.	4.8	42
31	Feasibility of longitudinal monitoring of atherosclerosis with pulse wave imaging in a swine model. Physiological Measurement, 2021, 42, 105008.	1.2	4
32	Electromechanical Wave Imaging With Machine Learning for Automated Isochrone Generation. IEEE Transactions on Medical Imaging, 2021, 40, 2258-2271.	5.4	9
33	Neurogenic Flare Response following Image-Guided Focused Ultrasound in the Mouse Peripheral Nervous System in Vivo. Ultrasound in Medicine and Biology, 2021, 47, 2759-2767.	0.7	4
34	Feasibility of Bilinear Mechanical Characterization of the Abdominal Aorta in a Hypertensive Mouse Model. Ultrasound in Medicine and Biology, 2021, 47, 3480-3490.	0.7	4
35	Guest Editorial Introduction to the Special Issue on Recent Advances in Ultrasound Technology for Brain Imaging and Therapy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3-5.	1.7	1
36	Modeling Pulse Wave Propagation Through a Stenotic Artery With Fluid Structure Interaction: A Validation Study Using Ultrasound Pulse Wave Imaging. Journal of Biomechanical Engineering, 2021, 143, .	0.6	6

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37	Modeling of intensity-modulated focused ultrasound in pediatric brain tumors using acoustic holograms. , 2021, , .		1
38	Pre-clinical breast cancer therapeutic response monitoring using harmonic motion imaging and functional ultrasound. , 2021, , .		2
39	Natural Aging Increases Focused Ultrasound-Induced Blood-Brain Barrier Opening in Wild-Type Mice. , 2021, , .		0
40	Machine learning assisted filtering of Focused Ultrasound pulse-induced interference in Harmonic Motion Imaging (HMI) derived displacement. , 2021, , .		1
41	Transthoracic Cardiac Strain Imaging with Electromagnetic Six Degrees-of-Freedom Tracking for 3D Coregistration. , 2021, , .		1
42	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.	1.7	13
43	Adaptive Pulse Wave Imaging: Automated Spatial Vessel Wall Inhomogeneity Detection in Phantoms and in-Vivo. IEEE Transactions on Medical Imaging, 2020, 39, 259-269.	5.4	19
44	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.	0.7	91
45	Hyaluronidase reduced edema after experimental traumatic brain injury. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 2026-2037.	2.4	6
46	A comparison between unfocused and focused transmit strategies in cardiac strain imaging. Physics in Medicine and Biology, 2020, 65, 03NT01.	1.6	5
47	Cardiovascular elastography. , 2020, , 67-107.		1
48	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.	1.6	17
49	Atrophy associated with tau pathology precedes overt cell death in a mouse model of progressive tauopathy. Science Advances, 2020, 6, .	4.7	14
50	Harmonic motion imaging of human breast masses: an in vivo clinical feasibility. Scientific Reports, 2020, 10, 15254.	1.6	12
51	Monitoring Canine Myocardial Infarction Formation and Recovery via Transthoracic Cardiac Strain Imaging. Ultrasound in Medicine and Biology, 2020, 46, 2785-2800.	0.7	7
52	Temporal Stability of Lipid-Shelled Microbubbles During Acoustically-Mediated Blood-Brain Barrier Opening. Frontiers in Physics, 2020, 8, .	1.0	13
53	Displacement Imaging for Focused Ultrasound Peripheral Nerve Neuromodulation. IEEE Transactions on Medical Imaging, 2020, 39, 3391-3402.	5.4	29
54	Ultrasound Neuromodulation: Mechanisms and the Potential of Multimodal Stimulation for Neuronal Function Assessment. Frontiers in Physics, 2020, 8, .	1.0	60

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55	Noninvasive localization of cardiac arrhythmias using electromechanical wave imaging. Science Translational Medicine, 2020, 12, .	5.8	14
56	Image-guided focused ultrasound modulates electrically evoked motor neuronal activity in the mouse peripheral nervous systemin vivo. Journal of Neural Engineering, 2020, 17, 026026.	1.8	33
57	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.	4.6	33
58	Harmonic Motion Imaging of Pancreatic Tumor Stiffness Indicates Disease State and Treatment Response. Clinical Cancer Research, 2020, 26, 1297-1308.	3.2	30
59	Catheter Ablation Lesion Visualization With Intracardiac Strain Imaging in Canines and Humans. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1800-1810.	1.7	5
60	Focused ultrasound induced-bloodâ€“brain barrier opening in mouse brain receiving radiosurgery dose of radiation enhances local delivery of systemic therapy. British Journal of Radiology, 2020, 93, 20190214.	1.0	6
61	DDEL-13. FOCUSED ULTRASOUND MEDIATED BLOOD BRAIN BARRIER DISRUPTION IN A MURINE MODEL OF PONTINE GLIOMA: A SAFETY AND FEASIBILITY STUDY. Neuro-Oncology, 2020, 22, iii286-iii286.	0.6	0
62	Frequency dependence of inclusion characterization in harmonic motion imaging. , 2020, , .		0
63	In Vivo Demonstration of Single Transducer Harmonic Motion Imaging (ST-HMI) in a Breast Cancer Mouse Model and Breast Cancer Patients. , 2020, , .		1
64	First in-vivo Demonstration of Bilateral Blood-Brain Barrier Opening Using Acoustic Holograms in Mice. , 2020, , .		1
65	4D Pulse Wave Imaging with sub aperture compounding in the carotid artery in simulations, phantoms and human subjects. , 2020, , .		0
66	Targeting Accuracy of Transcranial Power Cavitation Imaging for Blood-Brain Barrier Opening Using a Theranostic Phased Array. , 2020, , .		3
67	Focused ultrasound median nerve stimulation can modulate nociceptive pain. , 2020, , .		1
68	Bioavailability and cytosolic kinases modulate response to deoxynucleoside therapy in TK2 deficiency. EBioMedicine, 2019, 46, 356-367.	2.7	17
69	Unilateral Focused Ultrasound-Induced Blood-Brain Barrier Opening Reduces Phosphorylated Tau from The rTg4510 Mouse Model. Theranostics, 2019, 9, 5396-5411.	4.6	63
70	Bloodâ€“brain barrier opening with focused ultrasound in experimental models of Parkinson's disease. Movement Disorders, 2019, 34, 1252-1261.	2.2	32
71	4D cardiac electromechanical activation imaging. Computers in Biology and Medicine, 2019, 113, 103382.	3.9	20
72	Effect of Local Neck Anatomy on Localized One-Dimensional Measurements of Arterial Stiffness: A Finite-Element Model Study. Journal of Biomechanical Engineering, 2019, 141, .	0.6	1

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73	Fast qualitative two-dimensional mapping of ultrasound fields with acoustic cavitation-enhanced ultrasound imaging. Journal of the Acoustical Society of America, 2019, 146, EL158-EL164.	0.5	6
74	Localization of Accessory PathwaysÂinÂPediatric Patients With Wolff-Parkinson-White Syndrome UsingÂ3D-Rendered Electromechanical Wave Imaging. JACC: Clinical Electrophysiology, 2019, 5, 427-437.	1.3	12
75	Numerical modeling of ultrasound heating for the correction of viscous heating artifacts in soft tissue temperature measurements. Applied Physics Letters, 2019, 114, 203702.	1.5	20
76	Amelioration of the nigrostriatal pathway facilitated by ultrasound-mediated neurotrophic delivery in early Parkinson's disease. Journal of Controlled Release, 2019, 303, 289-301.	4.8	50
77	Intrinsic Cardiovascular Wave and Strain Imaging. Series in Bioengineering, 2019, , 163-190.	0.3	0
78	Simultaneous Nerve Displacement Mapping for Human Peripheral Neuromodulation. , 2019, , .		0
79	Simultaneous Nerve Displacement Mapping for Human Peripheral Neuromodulation. , 2019, , .		0
80	Atherosclerotic plaque mechanical characterization coupled with vector Doppler imaging in atherosclerotic carotid arteries in-vivo. , 2019, 2019, 6200-6203.		3
81	Imaging of pulse wave propagation coupled with vector flow and wall shear stress mapping in atherosclerotic plaque phantoms and in vivo. , 2019, , .		5
82	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.	1.6	37
83	Transcranial Blood-Brain Barrier Opening and Power Cavitation Imaging Using a Diagnostic Imaging Array. , 2019, , .		4
84	3D-rendered Electromechanical Wave Imaging for Localization of Accessory Pathways in Wolff-Parkinson-White Minors*. , 2019, 2019, 6192-6195.		0
85	Focused ultrasound stimulation of median nerve modulates somatosensory evoked responses. , 2019, , .		4
86	Pulse Wave Imaging in Carotid Artery Stenosis Human Patients in Vivo. Ultrasound in Medicine and Biology, 2019, 45, 353-366.	0.7	24
87	10.1121/1.5122194.1. , 2019, , .		0
88	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.	1.7	15
89	Cardiac Lesion Mapping <italic>In Vivo</italic> Using Intracardiac Myocardial Elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 14-20.	1.7	8
90	Focused ultrasound-facilitated brain drug delivery using optimized nanodroplets: vaporization efficiency dictates large molecular delivery. Physics in Medicine and Biology, 2018, 63, 035002.	1.6	42

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91	Cross-correlation analysis of pulse wave propagation in arteries: in vitro validation and in vivo feasibility. Physics in Medicine and Biology, 2018, 63, 115006.	1.6	18
92	Focused Ultrasound Steering for Harmonic Motion Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 292-294.	1.7	7
93	Non-invasive peripheral nerve stimulation via focused ultrasoundin vivo. Physics in Medicine and Biology, 2018, 63, 035011.	1.6	100
94	A Harmonic Motion Imaging (HMI)clinical System for Detection and Characterization of in Vivo Human Breast Masses - Initial Feasibility. , 2018, , .		2
95	Real-Time Displacement and Cavitation Imaging of Non-Invasive Neuromodulation of the Peripheral Nervous System via Focused Ultrasound. , 2018, , .		4
96	Automated Spatial Mechanical Inhomogeneity Detection and Arterial Wall Characterization in Human Atherosclerotic Carotid Arteries In-Vivo. , 2018, , .		4
97	F4â€09â€01: NEURORESTORATION OF THE DOPAMINERGIC PATHWAY USING FOCUSED ULTRASOUNDâ€MEDIATED PROTEIN AND GENE DELIVERY IN A PARKINSONIAN MODEL. Alzheimer's and Dementia, 2018, 14, P1396.	0.4	0
98	Focused Ultrasound Enhanced Intranasal Delivery of Neurotrophic Factors Exhibit Neurorestorative Effects in Parkinson's Disease Mouse Model. , 2018, , .		2
99	Technical Note: In vivo Young's modulus mapping of pancreatic ductal adenocarcinoma during <scp>HIFU</scp> ablation using harmonic motion elastography (<scp>HME</scp>). Medical Physics, 2018, 45, 5244-5250.	1.6	9
100	Efficient Blood-Brain Barrier Opening in Primates with Neuronavigation-Guided Ultrasound and Real-Time Acoustic Mapping. Scientific Reports, 2018, 8, 7978.	1.6	84
101	Non-invasive Characterization of Focal Arrhythmia with Electromechanical Wave Imaging in Vivo. Ultrasound in Medicine and Biology, 2018, 44, 2241-2249.	0.7	8
102	Pulse inversion enhances the passive mapping of microbubble-based ultrasound therapy. Applied Physics Letters, 2018, 113, 044102.	1.5	19
103	Modulation of Brain Function and Behavior by Focused Ultrasound. Current Behavioral Neuroscience Reports, 2018, 5, 153-164.	0.6	27
104	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.	2.4	40
105	Direct brain infusion can be enhanced with focused ultrasound and microbubbles. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 706-714.	2.4	30
106	Non-invasive, Focused Ultrasound-Facilitated Gene Delivery for Optogenetics. Scientific Reports, 2017, 7, 39955.	1.6	53
107	Pulse wave imaging using coherent compounding in a phantom andin vivo. Physics in Medicine and Biology, 2017, 62, 1700-1730.	1.6	37
108	3D Myocardial Elastography <italic>In Vivo</italic>. IEEE Transactions on Medical Imaging, 2017, 36, 618-627.	5.4	28

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109	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.	0.7	13
110	Assessment of arterial stiffness in periodontitis using a novel pulse wave imaging methodology. Journal of Clinical Periodontology, 2017, 44, 502-510.	2.3	3
111	Technical Note: A 3â€Ð rendering algorithm for electromechanical wave imaging of a beating heart. Medical Physics, 2017, 44, 4766-4772.	1.6	12
112	Cardiac Strain Imaging With Coherent Compounding of Diverging Waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1212-1222.	1.7	40
113	Comparison between multi-channel LDV and PWI for measurement of pulse wave velocity in distensible tubes: Towards a new diagnostic technique for detection of arteriosclerosis. Optics and Lasers in Engineering, 2017, 97, 41-51.	2.0	5
114	Noninvasive evaluation of varying pulse pressures in vivo using brachial sphymomanometry, applanation tonometry, and Pulse Wave Ultrasound Manometry. Artery Research, 2017, 18, 22.	0.3	6
115	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.	1.7	41
116	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.	1.6	22
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.	1.0	26
118	Electromechanical wave imaging and electromechanical wave velocity estimation in a large animal model of myocardial infarction. Physics in Medicine and Biology, 2017, 62, 9341-9356.	1.6	2
119	In vivo repeatability of the pulse wave inverse problem in human carotid arteries. Journal of Biomechanics, 2017, 64, 136-144.	0.9	8
120	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.	0.7	13
121	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.	1.7	21
122	Imaging the Propagation of the Electromechanical Wave in Heart Failure Patients with Cardiac Resynchronization Therapy. PACE - Pacing and Clinical Electrophysiology, 2017, 40, 35-45.	0.5	12
123	3D Quasi-Static Ultrasound Elastography With Plane Wave <italic>In Vivo</italic>. IEEE Transactions on Medical Imaging, 2017, 36, 357-365.	5.4	38
124	Notice of Removal: Pancreatic ductal adenocarcinoma detection and treatment monitoring in vivo and in post-surgical human specimens using Harmonic Motion Imaging (HMI). , 2017, , .		0
125	Notice of Removal: Mechanical effects of Cisplatin on Pancreatic Ductal Adenocarcinoma in a transgenic mouse model using Harmonic Motion Imaging. , 2017, , .		0
126	Notice of Removal: Comparison between fully and partially focused transmit strategies in transthoracic cardiac strain estimation. , 2017, , .		0

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127	Human Breast Tumor Characterization on Post-Surgical Mastectomy Specimens Using Harmonic Motion Imaging (HMI). , 2017, , .		2
128	Focused ultrasound-facilitated brain drug delivery using optimized nanodroplets. , 2017, , .		0
129	Toward a Cognitive Neural Prosthesis Using Focused Ultrasound. Frontiers in Neuroscience, 2017, 11, 607.	1.4	23
130	Notice of Removal: Multi-2D reconstruction of electromechanical activation maps of a beating heart. , 2017, , .		0
131	Focused ultrasound-facilitated molecular delivery to the brain using drug-loaded nanodroplets. , 2017, , .		0
132	The effect of temperature dependent tissue parameters on acoustic radiation force induced displacements. Physics in Medicine and Biology, 2016, 61, 7427-7447.	1.6	24
133	Focused ultrasound-enhanced intranasal brain delivery of brain-derived neurotrophic factor. Scientific Reports, 2016, 6, 28599.	1.6	52
134	An inverse approach to determining spatially varying arterial compliance using ultrasound imaging. Physics in Medicine and Biology, 2016, 61, 5486-5507.	1.6	24
135	Focused ultrasound neuromodulation of cortical and subcortical brain structures using 1.9 MHz. Medical Physics, 2016, 43, 5730-5735.	1.6	112
136	P1â€095: Focused Ultrasound Using Neurotrophic Factors for the Treatment of Neurodegenerative Disease. Alzheimer's and Dementia, 2016, 12, P437.	0.4	0
137	Energy-based constitutive modelling of local material properties of canine aortas. Royal Society Open Science, 2016, 3, 160365.	1.1	8
138	Elasticity mapping of murine abdominal organsin vivousing harmonic motion imaging (HMI). Physics in Medicine and Biology, 2016, 61, 5741-5754.	1.6	22
139	Validation of electromechanical wave imaging in a canine model during pacing and sinus rhythm. Heart Rhythm, 2016, 13, 2221-2227.	0.3	22
140	Characterizing Focused-Ultrasound Mediated Drug Delivery to the Heterogeneous Primate Brain In Vivo with Acoustic Monitoring. Scientific Reports, 2016, 6, 37094.	1.6	52
141	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.	1.6	20
142	Assessing the Stability of Aortic Aneurysms with Pulse Wave Imaging. Radiology, 2016, 281, 772-781.	3.6	20
143	Tumor characterization and treatment monitoring of postsurgical human breast specimens using harmonic motion imaging (HMI). Breast Cancer Research, 2016, 18, 46.	2.2	26
144	Longitudinal Motor and Behavioral Assessment of Bloodâ€“Brain Barrier Opening with Transcranial Focused Ultrasound. Ultrasound in Medicine and Biology, 2016, 42, 2270-2282.	0.7	33

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145	Differential displacement of soft tissue layers from manual therapy loading. Clinical Biomechanics, 2016, 33, 66-72.	0.5	14
146	High intensity focused ultrasound as a tool for tissue engineering: Application to cartilage. Medical Engineering and Physics, 2016, 38, 192-198.	0.8	4
147	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.	5.4	49
148	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
149	Focused ultrasound facilitated adenoviral delivery for optogenetic stimulation. , 2015, , .		0
150	Real-time Monitoring of High Intensity Focused Ultrasound (HIFU) Ablation of In Vitro Canine Livers Using Harmonic Motion Imaging for Focused Ultrasound (HMIFU). Journal of Visualized Experiments, 2015, , e53050.	0.2	11
151	Blood-Brain Barrier Opening in Behaving Non-Human Primates via Focused Ultrasound with Systemically Administered Microbubbles. Scientific Reports, 2015, 5, 15076.	1.6	81
152	Time-domain simulation of constitutive relations for nonlinear acoustics including relaxation for frequency power law attenuation media modeling. AIP Conference Proceedings, 2015, , .	0.3	0
153	Radiation-force-based estimation of acoustic attenuation using harmonic motion imaging (HMI) in phantoms and<i>in vitro</i>livers before and after HIFU ablation. Physics in Medicine and Biology, 2015, 60, 7499-7512.	1.6	14
154	Noninvasive assessment of age-related arterial changes using the carotid stress-strain relationship in vivo: A pilot study. , 2015, , .		1
155	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.	0.3	14
156	Atrial electromechanical cycle length mapping in paced canine hearts in vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1277-1287.	1.7	8
157	Targeting effects on the volume of the focused-ultrasound-induced blood-brain barrier opening in Non-Human Primates in vivo. , 2015, , .		2
158	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.	1.7	33
159	Intracardiac myocardial elastography in canines and humans in vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 337-349.	1.7	26
160	Enhanced Delivery and Bioactivity of the Neurturin Neurotrophic Factor through Focused Ultrasoundâ€"Mediated Bloodâ€"Brain Barrier Opening <i>in vivo</i>. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 611-622.	2.4	88
161	High intensity focused ultrasound (HIFU) focal spot localization using harmonic motion imaging (HMI). Physics in Medicine and Biology, 2015, 60, 5911-5924.	1.6	24
162	Effects of the microbubble shell physicochemical properties on ultrasound-mediated drug delivery to the brain. Journal of Controlled Release, 2015, 212, 30-40.	4.8	62

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163	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.	1.6	17
164	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.	3.9	20
165	High-intensity focused ultrasound monitoring using harmonic motion imaging for focused ultrasound (HMIFU) under boiling or slow denaturation conditions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1308-1319.	1.7	11
166	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.	1.6	80
167	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.	1.1	141
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