

# Elisa E Konofagou

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

243 papers	7,859 citations	54 h-index	80 g-index
324 ext. papers	9,815 ext. citations	4.4 avg, IF	6.37 L-index

#	Paper	IF	Citations
243	Neuronal responses to focused ultrasound are gated by pre-stimulation brain rhythms.. <i>Brain Stimulation</i> , <b>2022</b> , 15, 233-243	5.1	0
242	Focused ultrasound excites action potentials in mammalian peripheral neurons in part through the mechanically gated ion channel PIEZO2.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2115821119	11.5	1
241	Optimization of Blood-Brain Barrier Opening with Focused Ultrasound: The Animal Perspective. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , <b>2022</b> , 607-628	0.5	
240	Imaging of Single Transducer-Harmonic Motion Imaging-derived Displacements at Several Oscillation Frequencies Simultaneously. <i>IEEE Transactions on Medical Imaging</i> , <b>2022</b> , 1-1	11.7	
239	MODL-24. Focused ultrasound-mediated blood-brain barrier opening and panobinostat in a thalamic syngeneic murine DMG model is feasible and safe.. <i>Neuro-Oncology</i> , <b>2022</b> , 24, i174-i174	1	
238	MODL-25. Radiation and focused ultrasound-mediated blood-brain barrier opening for DMG: safety and feasibility of combinatorial therapy. <i>Neuro-Oncology</i> , <b>2022</b> , 24, i174-i174	1	
237	Modeling Pulse Wave Propagation Through a Stenotic Artery With Fluid Structure Interaction: A Validation Study Using Ultrasound Pulse Wave Imaging. <i>Journal of Biomechanical Engineering</i> , <b>2021</b> , 143,	2.1	2
236	Real-Time Positron Emission Tomography Evaluation of Topotecan Brain Kinetics after Ultrasound-Mediated Blood-Brain Barrier Permeability. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	2
235	Focused ultrasound mediated blood-brain barrier opening is safe and feasible in a murine pontine glioma model. <i>Scientific Reports</i> , <b>2021</b> , 11, 6521	4.9	13
234	High-Resolution Focused Ultrasound Neuromodulation Induces Limb-Specific Motor Responses in Mice in Vivo. <i>Ultrasound in Medicine and Biology</i> , <b>2021</b> , 47, 998-1013	3.5	3
233	Application of a sub-0.1-mm implantable mote for in vivo real-time wireless temperature sensing. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	16
232	Feasibility of Harmonic Motion Imaging Using a Single Transducer: In Vivo Imaging of Breast Cancer in a Mouse Model and Human Subjects. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 1390-1404	11.7	1
231	Focused Ultrasound-Mediated Blood-Brain Barrier Opening Increases Delivery and Efficacy of Etoposide for Glioblastoma Treatment. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2021</b> , 110, 539-550	4	13
230	Combining brain perturbation and neuroimaging in non-human primates. <i>NeuroImage</i> , <b>2021</b> , 235, 118017.9	7.9	15
229	Cardiac Resynchronization Therapy Response Assessment with Electromechanical Activation Mapping within 24 Hours of Device Implantation: A Pilot Study. <i>Journal of the American Society of Echocardiography</i> , <b>2021</b> , 34, 757-766.e8	5.8	1
228	Safety evaluation of a clinical focused ultrasound system for neuronavigation guided blood-brain barrier opening in non-human primates. <i>Scientific Reports</i> , <b>2021</b> , 11, 15043	4.9	7
227	Real-Time Passive Acoustic Mapping Using Sparse Matrix Multiplication. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 164-177	3.2	3

226	Displacement Imaging During Focused Ultrasound Median Nerve Modulation: A Preliminary Study in Human Pain Sensation Mitigation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 526-537	3.2	3
225	Ultrasound for the Brain: A Review of Physical and Engineering Principles, and Clinical Applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 6-20	3.2	12
224	Pulse Wave Imaging Coupled With Vector Flow Mapping: A Phantom, Simulation, and In Vivo Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 2516-2531	3.2	0
223	Pulse wave imaging for the mechanical assessment of atherosclerotic plaques <b>2021</b> , 529-542		
222	Synchronous temperature variation monitoring during ultrasound imaging and/or treatment pulse application: a phantom study <b>2021</b> , 1, 1-10		0
221	Contrast-Free Detection of Focused Ultrasound-Induced Blood-Brain Barrier Opening Using Diffusion Tensor Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 2499-2508	5	3
220	Cavitation-modulated inflammatory response following focused ultrasound blood-brain barrier opening. <i>Journal of Controlled Release</i> , <b>2021</b> , 337, 458-471	11.7	6
219	Electromechanical Wave Imaging With Machine Learning for Automated Isochrone Generation. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 2258-2271	11.7	2
218	Neurogenic Flare Response Following Image-Guided Focused Ultrasound in the Mouse Peripheral Nervous System in Vivo. <i>Ultrasound in Medicine and Biology</i> , <b>2021</b> , 47, 2759-2767	3.5	0
217	Feasibility of Bilinear Mechanical Characterization of the Abdominal Aorta in a Hypertensive Mouse Model. <i>Ultrasound in Medicine and Biology</i> , <b>2021</b> , 47, 3480-3490	3.5	1
216	Guest Editorial Introduction to the Special Issue on Recent Advances in Ultrasound Technology for Brain Imaging and Therapy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 3-5	3.2	0
215	Temporal stability of lipid-shelled microbubbles during acoustically-mediated blood-brain barrier opening. <i>Frontiers in Physics</i> , <b>2020</b> , 8,	3.9	6
214	Displacement Imaging for Focused Ultrasound Peripheral Nerve Neuromodulation. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 3391-3402	11.7	12
213	Ultrasound neuromodulation: mechanisms and the potential of multimodal stimulation for neuronal function assessment. <i>Frontiers in Physics</i> , <b>2020</b> , 8,	3.9	15
212	Noninvasive localization of cardiac arrhythmias using electromechanical wave imaging. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	3
211	Image-guided focused ultrasound modulates electrically evoked motor neuronal activity in the mouse peripheral nervous system in vivo. <i>Journal of Neural Engineering</i> , <b>2020</b> , 17, 026026	5	15
210	Noninvasive Young's modulus visualization of fibrosis progression and delineation of pancreatic ductal adenocarcinoma (PDAC) tumors using Harmonic Motion Elastography (HME). <i>Theranostics</i> , <b>2020</b> , 10, 4614-4626	12.1	12
209	Harmonic Motion Imaging of Pancreatic Tumor Stiffness Indicates Disease State and Treatment Response. <i>Clinical Cancer Research</i> , <b>2020</b> , 26, 1297-1308	12.9	11

208	Catheter Ablation Lesion Visualization With Intracardiac Strain Imaging in Canines and Humans. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 1800-1810	3.2	2
207	Focused ultrasound induced-blood-brain barrier opening in mouse brain receiving radiosurgery dose of radiation enhances local delivery of systemic therapy. <i>British Journal of Radiology</i> , <b>2020</b> , 93, 20190214	3.4	4
206	DDEL-13. FOCUSED ULTRASOUND MEDIATED BLOOD BRAIN BARRIER DISRUPTION IN A MURINE MODEL OF PONTINE GLIOMA: A SAFETY AND FEASIBILITY STUDY. <i>Neuro-Oncology</i> , <b>2020</b> , 22, iii286-iii286	1	78
205	A Clinical System for Non-invasive Blood-Brain Barrier Opening Using a Neuronavigation-Guided Single-Element Focused Ultrasound Transducer. <i>Ultrasound in Medicine and Biology</i> , <b>2020</b> , 46, 73-89	3.5	30
204	Hyaluronidase reduced edema after experimental traumatic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2020</b> , 40, 2026-2037	7.3	3
203	A comparison between unfocused and focused transmit strategies in cardiac strain imaging. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 03NT01	3.8	1
202	Cardiovascular elastography <b>2020</b> , 67-107		
201	Arterial wall mechanical inhomogeneity detection and atherosclerotic plaque characterization using high frame rate pulse wave imaging in carotid artery disease patients in vivo. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 025010	3.8	6
200	Atrophy associated with tau pathology precedes overt cell death in a mouse model of progressive tauopathy. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	8
199	Harmonic motion imaging of human breast masses: an in vivo clinical feasibility. <i>Scientific Reports</i> , <b>2020</b> , 10, 15254	4.9	3
198	Monitoring Canine Myocardial Infarction Formation and Recovery via Transthoracic Cardiac Strain Imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2020</b> , 46, 2785-2800	3.5	0
197	Iterative Curve Fitting of the Bioheat Transfer Equation for Thermocouple-Based Temperature Estimation In Vitro and In Vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 70-80	3.2	9
196	Adaptive Pulse Wave Imaging: Automated Spatial Vessel Wall Inhomogeneity Detection in Phantoms and in-Vivo. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 259-269	11.7	10
195	Fast qualitative two-dimensional mapping of ultrasound fields with acoustic cavitation-enhanced ultrasound imaging. <i>Journal of the Acoustical Society of America</i> , <b>2019</b> , 146, EL158	2.2	3
194	Localization of Accessory Pathways in Pediatric Patients With Wolff-Parkinson-White Syndrome Using 3D-Rendered Electromechanical Wave Imaging. <i>JACC: Clinical Electrophysiology</i> , <b>2019</b> , 5, 427-437	4.6	9
193	Numerical modeling of ultrasound heating for the correction of viscous heating artifacts in soft tissue temperature measurements. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 203702	3.4	10
192	Myocardial Elastography <b>2019</b> , 1073-1082		
191	Electromechanical Wave Imaging <b>2019</b> , 1083-1095		

190	Amelioration of the nigrostriatal pathway facilitated by ultrasound-mediated neurotrophic delivery in early Parkinson's disease. <i>Journal of Controlled Release</i> , <b>2019</b> , 303, 289-301	11.7	30
189	Intrinsic Cardiovascular Wave and Strain Imaging. <i>Series in Bioengineering</i> , <b>2019</b> , 163-190	0.7	
188	Bioavailability and cytosolic kinases modulate response to deoxynucleoside therapy in TK2 deficiency. <i>EBioMedicine</i> , <b>2019</b> , 46, 356-367	8.8	11
187	Unilateral Focused Ultrasound-Induced Blood-Brain Barrier Opening Reduces Phosphorylated Tau from The rTg4510 Mouse Model. <i>Theranostics</i> , <b>2019</b> , 9, 5396-5411	12.1	32
186	Blood-brain barrier opening with focused ultrasound in experimental models of Parkinson's disease. <i>Movement Disorders</i> , <b>2019</b> , 34, 1252-1261	7	15
185	4D cardiac electromechanical activation imaging. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 113, 103382	7	8
184	Atherosclerotic plaque mechanical characterization coupled with vector Doppler imaging in atherosclerotic carotid arteries in-vivo. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 6200-6203	0.9	1
183	Imaging of pulse wave propagation coupled with vector flow and wall shear stress mapping in atherosclerotic plaque phantoms and in vivo <b>2019</b> ,		2
182	Focused ultrasound enhanced intranasal delivery of brain derived neurotrophic factor produces neurorestorative effects in a Parkinson's disease mouse model. <i>Scientific Reports</i> , <b>2019</b> , 9, 19402	4.9	21
181	Transcranial Blood-Brain Barrier Opening and Power Cavitation Imaging Using a Diagnostic Imaging Array <b>2019</b> ,		2
180	3D-rendered Electromechanical Wave Imaging for Localization of Accessory Pathways in Wolff-Parkinson-White Minors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 6192-6195	0.9	
179	Focused ultrasound stimulation of median nerve modulates somatosensory evoked responses <b>2019</b> ,		2
178	Pulse Wave Imaging in Carotid Artery Stenosis Human Patients in Vivo. <i>Ultrasound in Medicine and Biology</i> , <b>2019</b> , 45, 353-366	3.5	14
177	Optimization of Transmit Parameters in Cardiac Strain Imaging With Full and Partial Aperture Coherent Compounding. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 684-696	3.2	7
176	Cardiac Lesion Mapping In Vivo Using Intracardiac Myocardial Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 14-20	3.2	6
175	Focused ultrasound-facilitated brain drug delivery using optimized nanodroplets: vaporization efficiency dictates large molecular delivery. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 035002	3.8	27
174	Cross-correlation analysis of pulse wave propagation in arteries: in vitro validation and in vivo feasibility. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 115006	3.8	11
173	Focused Ultrasound Steering for Harmonic Motion Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 292-294	3.2	4

172	Non-invasive Characterization of Focal Arrhythmia with Electromechanical Wave Imaging in Vivo. <i>Ultrasound in Medicine and Biology</i> , <b>2018</b> , 44, 2241-2249	3.5	7
171	Pulse inversion enhances the passive mapping of microbubble-based ultrasound therapy. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 044102	3.4	14
170	Modulation of Brain Function and Behavior by Focused Ultrasound. <i>Current Behavioral Neuroscience Reports</i> , <b>2018</b> , 5, 153-164	1.7	15
169	Non-invasive peripheral nerve stimulation via focused ultrasound in vivo. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 035011	3.8	58
168	A Harmonic Motion Imaging (HMI) clinical System for Detection and Characterization of in Vivo Human Breast Masses - Initial Feasibility <b>2018</b> ,		1
167	Automated Spatial Mechanical Inhomogeneity Detection and Arterial Wall Characterization in Human Atherosclerotic Carotid Arteries In-Vivo <b>2018</b> ,		2
166	F4-09-01: NEURORESTORATION OF THE DOPAMINERGIC PATHWAY USING FOCUSED ULTRASOUND-MEDIATED PROTEIN AND GENE DELIVERY IN A PARKINSONIAN MODEL <b>2018</b> , 14, P1396-P1397		
165	Focused Ultrasound Enhanced Intranasal Delivery of Neurotrophic Factors Exhibit Neurorestorative Effects in Parkinson's Disease Mouse Model <b>2018</b> ,		2
164	Intrinsic Cardiovascular Wave and Strain Imaging <b>2018</b> , 189-226		
163	Harmonic Motion Imaging <b>2018</b> , 264-283		
162	Technical Note: In vivo Young's modulus mapping of pancreatic ductal adenocarcinoma during HIFU ablation using harmonic motion elastography (HME). <i>Medical Physics</i> , <b>2018</b> , 45, 5244-5250	4.4	3
161	Efficient Blood-Brain Barrier Opening in Primates with Neuronavigation-Guided Ultrasound and Real-Time Acoustic Mapping. <i>Scientific Reports</i> , <b>2018</b> , 8, 7978	4.9	50
160	Lipid microbubbles as a vehicle for targeted drug delivery using focused ultrasound-induced blood-brain barrier opening. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 1236-1250	7.3	25
159	Direct brain infusion can be enhanced with focused ultrasound and microbubbles. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 706-714	7.3	19
158	Non-invasive, Focused Ultrasound-Facilitated Gene Delivery for Optogenetics. <i>Scientific Reports</i> , <b>2017</b> , 7, 39955	4.9	37
157	Pulse wave imaging using coherent compounding in a phantom and in vivo. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 1700-1730	3.8	20
156	3D Myocardial Elastography In Vivo. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 618-627	11.7	18
155	Evaluation of Coronary Artery Disease Using Myocardial Elastography with Diverging Wave Imaging: Validation against Myocardial Perfusion Imaging and Coronary Angiography. <i>Ultrasound in Medicine and Biology</i> , <b>2017</b> , 43, 893-902	3.5	9



154	Assessment of arterial stiffness in periodontitis using a novel pulse wave imaging methodology. <i>Journal of Clinical Periodontology</i> , <b>2017</b> , 44, 502-510	7.7	3
153	Technical Note: A 3-D rendering algorithm for electromechanical wave imaging of a beating heart. <i>Medical Physics</i> , <b>2017</b> , 44, 4766-4772	4.4	8
152	Cardiac Strain Imaging With Coherent Compounding of Diverging Waves. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2017</b> , 64, 1212-1222	3.2	29
151	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. <i>Optics and Lasers in Engineering</i> , <b>2017</b> , 97, 41-51	4.6	3
150	Noninvasive Evaluation of Varying Pulse Pressures Using Brachial Sphymomanometry, Applanation Tonometry, and Pulse Wave Ultrasound Manometry. <i>Artery Research</i> , <b>2017</b> , 18, 22-28	2.2	4
149	Targeting Effects on the Volume of the Focused Ultrasound-Induced Blood-Brain Barrier Opening in Nonhuman Primates In Vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2017</b> , 64, 798-810	3.2	23
148	Fast lesion mapping during HIFU treatment using harmonic motion imaging guided focused ultrasound (HMIgFUS) in vitro and in vivo. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 3111-3123	3.8	12
147	Pharmacokinetic analysis and drug delivery efficiency of the focused ultrasound-induced blood-brain barrier opening in non-human primates. <i>Magnetic Resonance Imaging</i> , <b>2017</b> , 37, 273-281	3.3	20
146	Electromechanical wave imaging and electromechanical wave velocity estimation in a large animal model of myocardial infarction. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 9341-9356	3.8	2
145	In vivo repeatability of the pulse wave inverse problem in human carotid arteries. <i>Journal of Biomechanics</i> , <b>2017</b> , 64, 136-144	2.9	4
144	Reproducibility and Angle Independence of Electromechanical Wave Imaging for the Measurement of Electromechanical Activation during Sinus Rhythm in Healthy Humans. <i>Ultrasound in Medicine and Biology</i> , <b>2017</b> , 43, 2256-2268	3.5	11
143	Feasibility and Validation of 4-D Pulse Wave Imaging in Phantoms and In Vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2017</b> , 64, 1305-1317	3.2	14
142	Imaging the Propagation of the Electromechanical Wave in Heart Failure Patients with Cardiac Resynchronization Therapy. <i>PACE - Pacing and Clinical Electrophysiology</i> , <b>2017</b> , 40, 35-45	1.6	11
141	3D Quasi-Static Ultrasound Elastography With Plane Wave In Vivo. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 357-365	11.7	29
140	<b>2017</b> ,		2
139	Toward a Cognitive Neural Prosthesis Using Focused Ultrasound. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 607	5.1	18
138	Characterizing Focused-Ultrasound Mediated Drug Delivery to the Heterogeneous Primate Brain In Vivo with Acoustic Monitoring. <i>Scientific Reports</i> , <b>2016</b> , 6, 37094	4.9	33
137	Electromechanical wave imaging (EWI) validation in all four cardiac chambers with 3D electroanatomic mapping in canines in vivo. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 8105-8119	3.8	14

136	Assessing the Stability of Aortic Aneurysms with Pulse Wave Imaging. <i>Radiology</i> , <b>2016</b> , 281, 772-781	20.5	13
135	Tumor characterization and treatment monitoring of postsurgical human breast specimens using harmonic motion imaging (HMI). <i>Breast Cancer Research</i> , <b>2016</b> , 18, 46	8.3	16
134	Longitudinal Motor and Behavioral Assessment of Blood-Brain Barrier Opening with Transcranial Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , <b>2016</b> , 42, 2270-82	3.5	24
133	Differential displacement of soft tissue layers from manual therapy loading. <i>Clinical Biomechanics</i> , <b>2016</b> , 33, 66-72	2.2	8
132	High intensity focused ultrasound as a tool for tissue engineering: Application to cartilage. <i>Medical Engineering and Physics</i> , <b>2016</b> , 38, 192-8	2.4	3
131	Piecewise Pulse Wave Imaging (pPWI) for Detection and Monitoring of Focal Vascular Disease in Murine Aortas and Carotids In Vivo. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 13-28	11.7	35
130	Time-Domain Simulation of Ultrasound Propagation in a Tissue-Like Medium Based on the Resolution of the Nonlinear Acoustic Constitutive Relations. <i>Acta Acustica United With Acustica</i> , <b>2016</b> , 102, 876-892	1.5	12
129	The effect of temperature dependent tissue parameters on acoustic radiation force induced displacements. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 7427-7447	3.8	14
128	Focused ultrasound-enhanced intranasal brain delivery of brain-derived neurotrophic factor. <i>Scientific Reports</i> , <b>2016</b> , 6, 28599	4.9	38
127	An inverse approach to determining spatially varying arterial compliance using ultrasound imaging. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 5486-507	3.8	15
126	Focused ultrasound neuromodulation of cortical and subcortical brain structures using 1.9 MHz. <i>Medical Physics</i> , <b>2016</b> , 43, 5730	4.4	65
125	P1-095: Focused Ultrasound Using Neurotrophic Factors for the Treatment of Neurodegenerative Disease <b>2016</b> , 12, P437-P437		
124	Energy-based constitutive modelling of local material properties of canine aortas. <i>Royal Society Open Science</i> , <b>2016</b> , 3, 160365	3.3	6
123	Elasticity mapping of murine abdominal organs in vivo using harmonic motion imaging (HMI). <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 5741-54	3.8	17
122	Validation of electromechanical wave imaging in a canine model during pacing and sinus rhythm. <i>Heart Rhythm</i> , <b>2016</b> , 13, 2221-2227	6.7	19
121	Enhanced delivery and bioactivity of the neurturin neurotrophic factor through focused ultrasound-mediated blood-brain barrier opening in vivo. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2015</b> , 35, 611-22	7.3	69
120	High intensity focused ultrasound (HIFU) focal spot localization using harmonic motion imaging (HMI). <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 5911-24	3.8	21
119	Effects of the microbubble shell physicochemical properties on ultrasound-mediated drug delivery to the brain. <i>Journal of Controlled Release</i> , <b>2015</b> , 212, 30-40	11.7	42



118	Non-contact, ultrasound-based indentation method for measuring elastic properties of biological tissues using harmonic motion imaging (HMI). <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 2853-68	3.8	15
117	Assessing the atrial electromechanical coupling during atrial focal tachycardia, flutter, and fibrillation using electromechanical wave imaging in humans. <i>Computers in Biology and Medicine</i> , <b>2015</b> , 65, 161-7	7	12
116	High-intensity focused ultrasound monitoring using harmonic motion imaging for focused ultrasound (HMIFU) under boiling or slow denaturation conditions. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2015</b> , 62, 1308-19	3.2	9
115	Acoustic cavitation-based monitoring of the reversibility and permeability of ultrasound-induced blood-brain barrier opening. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 9079-94	3.8	59
114	Real-time Monitoring of High Intensity Focused Ultrasound (HIFU) Ablation of In Vitro Canine Livers Using Harmonic Motion Imaging for Focused Ultrasound (HMIFU). <i>Journal of Visualized Experiments</i> , <b>2015</b> , e53050	1.6	7
113	Blood-Brain Barrier Opening in Behaving Non-Human Primates via Focused Ultrasound with Systemically Administered Microbubbles. <i>Scientific Reports</i> , <b>2015</b> , 5, 15076	4.9	62
112	Radiation-force-based estimation of acoustic attenuation using harmonic motion imaging (HMI) in phantoms and in vitro livers before and after HIFU ablation. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 7499-512	3.8	11
111	Performance assessment of Pulse Wave Imaging using conventional ultrasound in canine aortas and normal human arteries. <i>Artery Research</i> , <b>2015</b> , 11, 19-28	2.2	11
110	Atrial electromechanical cycle length mapping in paced canine hearts in vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2015</b> , 62, 1277-87	3.2	6
109	Targeting effects on the volume of the focused-ultrasound-induced blood-brain barrier opening in Non-Human Primates in vivo <b>2015</b> ,		1
108	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. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2015</b> , 62, 1662-73	3.2	20
107	Intracardiac myocardial elastography in canines and humans in vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2015</b> , 62, 337-49	3.2	22
106	Long-Term Safety of Repeated Blood-Brain Barrier Opening via Focused Ultrasound with Microbubbles in Non-Human Primates Performing a Cognitive Task. <i>PLoS ONE</i> , <b>2015</b> , 10, e0125911	3.7	101
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79	Optimization of the ultrasound-induced blood-brain barrier opening. <i>Theranostics</i> , <b>2012</b> , 2, 1223-37	12.1	96
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74	Pressure and microbubble size dependence study of focused ultrasound-induced blood-brain barrier opening reversibility in vivo <b>2012</b> ,		5
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72	Feasibility study of a single-element transcranial focused ultrasound system for blood-brain barrier opening <b>2012</b> ,		2
71	Performance assessment and optimization of Pulse Wave Imaging (PWI) in ex vivo canine aortas and in vivo normal human arteries. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 3178-82	0.9	8
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59	In vivo study of myocardial elastography under graded ischemia conditions. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 1155-72	3.8	43
58	A comprehensive framework for Harmonic Motion Imaging for Focused Ultrasound (HMIFU) with ex vivo validation <b>2011</b> ,		1
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42	Microbubble-size dependence of focused ultrasound-induced blood-brain barrier opening in mice in vivo. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 145-54	5	177
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36	The Dependence of the Ultrasound-Induced Blood-Brain Barrier Opening Characteristics on Microbubble Size In Vivo <b>2009</b> ,		1
35	Pulse wave imaging of normal and aneurysmal abdominal aortas in vivo. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 477-86	11.7	77
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18	Noninvasive Blood-Brain Barrier Opening in Live Mice. <i>AIP Conference Proceedings</i> , <b>2006</b> ,	0	3
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2	Focused ultrasound enhances sensorimotor decision-making in monkeys		2
1	Differential effects of amplitude-modulated transcranial focused ultrasound on excitatory and inhibitory neurons		1