Mark L Palmeri

List of Publications by Year
in descending order

209 papers	9,286 citations	50170 46 h-index	40881 93 g-index
216 all docs	216 docs citations	216 times ranked	5861 citing authors

#	Article	IF	Citations
1	Full Characterization of in vivo Muscle as an Elastic, Incompressible, Transversely Isotropic Material Using Ultrasonic Rotational 3D Shear Wave Elasticity Imaging. IEEE Transactions on Medical Imaging, 2022, 41, 133-144.	5.4	23
2	Radiological Society of North America/Quantitative Imaging Biomarker Alliance Shear Wave Speed Bias Quantification in Elastic and Viscoelastic Phantoms. Journal of Ultrasound in Medicine, 2021, 40, 569-581.	0.8	25
3	Shear Wave Dispersion as a Potential Biomarker for Cervical Remodeling During Pregnancy: Evidence From a Non-Human Primate Model. Frontiers in Physics, 2021, 8, .	1.0	2
4	Quantifying Skin Stiffness in Graft-Versus-Host Disease, Morphea, and Systemic Sclerosis Using Acoustic Radiation Force Impulse Imaging and Shear Wave Elastography. Journal of Investigative Dermatology, 2021, 141, 924-927.e2.	0.3	10
5	Semi-automated weak annotation for deep neural network skin thickness measurement. Ultrasonic Imaging, 2021, 43, 167-174.	1.4	1
6	Deep Convolutional Neural Networks for Displacement Estimation in ARFI Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2472-2481.	1.7	9
7	Prostate Cancer Detection Using 3-D Shear Wave Elasticity Imaging. Ultrasound in Medicine and Biology, 2021, 47, 1670-1680.	0.7	8
8	Deep neural network for multiparametric ultrasound imaging of prostate cancer. , 2021, , .		1
9	Deep Learning Based Quantitative Uncertainty Estimation for Ultrasound Shear Wave Elasticity Imaging. , 2021, , .		1
10	Group Shear Wave Speed Viscoelastic Analysis using 3D Rotational Volumetric Shear Wave Imaging in Relaxed and Contracted in vivo Muscle. , 2021, , .		0
11	Quantification of Skeletal Muscle Fiber Orientation in 3D Ultrasound B-Modes. , 2021, , .		1
12	Factors Affecting in vivo SH and SV Mode Wave Propagation in vastus lateralis Muscle at Varying Knee Flexion Angles Using Ultrasonic Rotational 3D SWEI. , 2021, , .		2
13	Measurement of Viscoelastic Material Model Parameters Using Fractional Derivative Group Shear Wave Speeds in Simulation and Phantom Data. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 286-295.	1.7	16
14	Multiparametric Ultrasound for Targeting Prostate Cancer: Combining ARFI, SWEI, QUS and B-Mode. Ultrasound in Medicine and Biology, 2020, 46, 3426-3439.	0.7	11
15	MimickNet, Mimicking Clinical Image Post- Processing Under Black-Box Constraints. IEEE Transactions on Medical Imaging, 2020, 39, 2277-2286.	5.4	22
16	Tractable calculation of the Greenâ€™s tensor for shear wave propagation in an incompressible, transversely isotropic material. Physics in Medicine and Biology, 2020, 65, 015014.	1.6	24
17	Characterizing Liver Stiffness with Acoustic Radiation Force. , 2020, , 41-49.		0
18	Does Ultrasonic Data Format Matter for Deep Neural Networks?. , 2020, , .		1

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19	Demonstration of Complex Shear Wave Patterns in Skeletal Muscle in vivo Using 3D SWEI. , 2020, , .		1
20	Viscoelastic Characterization in Muscle using Group Speed Analysis and Volumetric Shear Wave Elasticity Imaging. , 2020, , .		1
21	Evaluating Image Quality Improvement in Multiparametric Ultrasound Imaging of Prostate Cancer by Combining ARFI, SWEI, B-mode, and QUS. , 2020, , .		1
22	UltraNet: Deep Learning Tools for Modeling Acoustic Wall Clutter. , 2020, , .		1
23	RSNA/QIBA efforts to standardize shear wave speed as a biomarker for liver fibrosis staging. Ultrasound in Medicine and Biology, 2019, 45, S24.	0.7	4
24	Evaluation of sensitivity of ultrasound imaging biomarkers of cervical viscosity based on shear wave elasticity imaging: A simulation study. , 2019, , .		0
25	MimickNet, Matching Clinical Post-Processing Under Realistic Black-Box Constraints. , 2019, , .		3
26	Robust Model-Based Viscoelastic Characterization of QIBA Phantoms through Fractional Derivative Group Shear Wave Speeds. , 2019, , .		0
27	Comparison of Deep Learning and Classical Image Processing for Skin Segmentation. , 2019, , .		2
28	Bayesian Shear Wave Speed Reconstruction with an On-Axis ARFI Prior. , 2019, , .		0
29	Large Field-Of-View Shear Wave Elasticity Imaging with Combined On- and Off-Axis Stiffness Estimation for High Frame Rate Hepatic HCC Screening. , 2019, , .		0
30	A Fully Convolutional Neural Network for Rapid Displacement Estimation in ARFI Imaging. , 2019, , .		2
31	Multiparametric Ultrasound for the Targeting of Prostate Cancer using ARFI, SWEI, B-mode, and QUS. , 2019, , .		1
32	Quantitative assessment of cervical softening during pregnancy in the Rhesus macaque with shear wave elasticity imaging. Physics in Medicine and Biology, 2018, 63, 085016.	1.6	16
33	Impact of Acoustic Radiation Force Excitation Geometry on Shear Wave Dispersion and Attenuation Estimates. Ultrasound in Medicine and Biology, 2018, 44, 897-908.	0.7	19
34	Evaluating the Benefit of Elevated Acoustic Output in Harmonic Motion Estimation in Ultrasonic Shear Wave Elasticity Imaging. Ultrasound in Medicine and Biology, 2018, 44, 303-310.	0.7	14
35	Detection of Changes in Cervical Softness Using Shear Wave Speed in Early versus Late Pregnancy: An in Vivo Cross-Sectional Study. Ultrasound in Medicine and Biology, 2018, 44, 515-521.	0.7	30
36	Investigating the Degree of Shear Wave Speed Anisotropy as a Function of Studied Ventricular Zone. , 2018, , .		1

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37	Anisotropic Constructive Shearwave Interference Measurement of Transversely Anisotropic Materials. , 2018, , .		0
38	Prostate Shear Wave Elastography: Multiresolution Reconstruction Dependence on Push Beam Spacing. , 2018, , .		3
39	Correlation Between 3D ARFI and Quantitative Imaging Metrics from SWEI and Multi-Parametric MRI in Vivo in Normal and Cancerous Prostate Tissue. , 2018, , .		0
40	On-Axis Acoustic Radiation Force-Based Elasticity Measurement in Homogeneous and Layered, Skin-Mimicking Phantoms. , 2018, , .		0
41	Characterization of Viscoelastic Materials Using Group Shear Wave Speeds. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 780-794.	1.7	40
42	Assessment of Structural Heterogeneity and Viscosity in the Cervix Using Shear Wave Elasticity Imaging: Initial Results from a Rhesus Macaque Model. Ultrasound in Medicine and Biology, 2017, 43, 790-803.	0.7	17
43	Guidelines for Finite-Element Modeling of Acoustic Radiation Force-Induced Shear Wave Propagation in Tissue-Mimicking Media. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 78-92.	1.7	56
44	Accounting for the Spatial Observation Window in the 2-D Fourier Transform Analysis of Shear Wave Attenuation. Ultrasound in Medicine and Biology, 2017, 43, 2500-2506.	0.7	22
45	Quantifying Image Quality Improvement Using Elevated Acoustic Output in B-Mode Harmonic Imaging. Ultrasound in Medicine and Biology, 2017, 43, 2416-2425.	0.7	25
46	Ultrasonic Shear Wave Elasticity Imaging Sequencing and Data Processing Using a Verasonics Research Scanner. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 164-176.	1.7	85
47	Notice of Removal: Parameters impacting accuracy of ARFI-derived stiffness ratios: A simulation study with implications on measurement of dynamic myocardial stiffness. , 2017, , .		0
48	Comparison of SWEI methods for measuring the frequency dependent phase velocity and attenuation in viscoelastic materials. , 2017, , .		1
49	Notice of Removal: Biological factors affecting shear wave speed measurements in the Rhesus macaque non-pregnant cervix. , 2017, , .		0
50	Constructive shearwave imaging: Feasibility and improvements in SNR. , 2017, , .		1
51	Group shear wave based viscoelastic parameter estimation in SWEI: Analysis of sources of bias. , 2017, , .		2
52	Constructive shearwave interference (CSI): Concept and feasibility. , 2017, , .		0
53	Group-shearwave based viscoelastic parameter estimation: Analysis of sources of bias. , 2017, , .		0
54	Notice of Removal: Investigating the impact of elevated acoustic output in B-mode harmonic imaging and harmonic motion tracking. , 2017, , .		0

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55	Notice of Removal: Biological and experimental factors affecting the assessment of cervical softening during pregnancy with shear wave elasticity imaging. , 2017, , .		0
56	Notice of Removal: Comparison of methods for measuring the frequency dependent phase velocity and attenuation in viscoelastic materials. , 2017, , .		0
57	Acoustic Radiation Force Impulse Imaging for Targeting: Correlation with Histology. Current Clinical Urology, 2017, , 193-202.	0.0	0
58	SlicerITKUltrasound: A 3D Slicer extension for scan conversion of B-mode and next-generation ultrasound imaging modalities. Journal of Open Source Software, 2017, 2, 153.	2.0	0
59	Changes in cervical stiffness during pregnancy: Preliminary assessment with shear wave elasticity imaging in the rhesus macaque. AIP Conference Proceedings, 2016, , .	0.3	1
60	Dispersion analysis in skin using FEM: Characterizing the effects of the lower boundary material on the propagation of shear waves. , 2016, , .		1
61	On the feasibility of estimating ultrasonic shear wave attenuation using amplitude-based methods. , 2016, , .		1
62	Robust characterization of viscoelastic materials from measurements of group shear wave speeds. , 2016, , .		10
63	Identifying Clinically Significant Prostate Cancers using 3-D InÂVivo Acoustic Radiation Force Impulse Imaging with Whole-Mount Histology Validation. Ultrasound in Medicine and Biology, 2016, 42, 1251-1262.	0.7	38
64	Single track location Shear Wave Elasticity Imaging of the liver with reduced propagation windows. , 2016, , .		5
65	Comparison between 3D ARFI imaging and mpMRI in detecting clinically-significant prostate cancer lesions. , 2016, , .		1
66	Elastography Assessment of Liver Fibrosis. Ultrasound Quarterly, 2016, 32, 94-107.	0.3	99
67	On-axis acoustic radiation force-based stiffness estimation in phantoms. , 2016, , .		2
68	Evaluating the Improvement in Shear Wave Speed Image Quality Using Multidimensional Directional Filters in the Presence of Reflection Artifacts. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1049-1063.	1.7	46
69	Pathway-Specific Striatal Substrates for Habitual Behavior. Neuron, 2016, 89, 472-479.	3.8	121
70	On the Quantitative Potential of Viscoelastic Response (VisR) Ultrasound Using the One-Dimensional Mass-Spring-Damper Model. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1276-1287.	1.7	54
71	Estimation of Shear Wave Speed in the Rhesus Macaquesâ€™ Uterine Cervix. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1243-1252.	1.7	10
72	On System-Dependent Sources of Uncertainty and Bias in Ultrasonic Quantitative Shear-Wave Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 381-393.	1.7	24

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73	Characterizing sclerotic skin stiffness with Acoustic Radiation Force Impulse (ARFI) and Shear Wave Elasticity Imaging (SWEI). , 2015, , .		2
74	An analytic, Fourier domain description of shear wave propagation in a viscoelastic medium using asymmetric Gaussian sources. Journal of the Acoustical Society of America, 2015, 138, 1012-1022.	0.5	56
75	RSNA QIBA ultrasound shear wave speed Phase II phantom study in viscoelastic media. , 2015, , .		33
76	WFUMB Guidelines and Recommendations for Clinical Use of Ultrasound Elastography: Part 2: Breast. Ultrasound in Medicine and Biology, 2015, 41, 1148-1160.	0.7	368
77	System dependent sources of error in time-of-flight shear wave speed measurements. , 2015, , .		0
78	Intravascular acoustic radiation force imaging. , 2015, , .		0
79	On-axis radiation-force-based quantitative stiffness estimation with a Bayesian displacement estimator. , 2015, , .		3
80	Measurement of the frequency dependent phase velocity and attenuation from the Fourier description of shear wave propagation: Addressing geometric spreading arising from spatially asymmetric Gaussian excitations. , 2015, , .		0
81	Material Characterization of inÂVivo and inÂVitro Porcine Brain Using Shear Wave Elasticity. Ultrasound in Medicine and Biology, 2015, 41, 713-723.	0.7	10
82	Analysis of rapid multi-focal-zone ARFI imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 280-289.	1.7	27
83	Changes in shear wave speed preâ€•and postâ€•induction of labor: a feasibility study. Ultrasound in Obstetrics and Gynecology, 2015, 46, 93-98.	0.9	56
84	Derivation and analysis of viscoelastic properties in human liver: impact of frequency on fibrosis and steatosis staging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 165-175.	1.7	128
85	Elastography Assessment of Liver Fibrosis: Society of Radiologists in Ultrasound Consensus Conference Statement. Radiology, 2015, 276, 845-861.	3.6	468
86	Apparent Diffusion Coefficient Values of the Benign Central Zone of the Prostate: Comparison With Low- and High-Grade Prostate Cancer. American Journal of Roentgenology, 2015, 205, 331-336.	1.0	25
87	2092322 3D ARFI Imaging of Prostate Cancer: Correlation with Whole Mount Histopathology and Volumetric Comparison to MR Imaging. Ultrasound in Medicine and Biology, 2015, 41, S80.	0.7	0
88	Analyzing the Impact of Increasing Mechanical Index and Energy Deposition on Shear Wave Speed Reconstruction in Human Liver. Ultrasound in Medicine and Biology, 2015, 41, 1948-1957.	0.7	40
89	Detection of prostate cancer with multiparametric MRI (mpMRI): effect of dedicated reader education on accuracy and confidence of index and anterior cancer diagnosis. Abdominal Imaging, 2015, 40, 134-142.	2.0	71
90	WFUMB Guidelines and Recommendations for Clinical Use of Ultrasound Elastography: Part 1: Basic Principles and Terminology. Ultrasound in Medicine and Biology, 2015, 41, 1126-1147.	0.7	718

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91	WFUMB Guidelines and Recommendations for Clinical Use of Ultrasound Elastography: Part 3: Liver. Ultrasound in Medicine and Biology, 2015, 41, 1161-1179.	0.7	620
92	Preliminary Results on the Feasibility of Using ARFI/SWEI to Assess Cutaneous Sclerotic Diseases. Ultrasound in Medicine and Biology, 2015, 41, 2806-2819.	0.7	53
93	B-Mode and Acoustic Radiation Force Impulse (ARFI) Imaging of Prostate Zonal Anatomy. Ultrasonic Imaging, 2015, 37, 22-41.	1.4	19
94	Estimation of model parameters characterizing dispersion in ARFI induced shear waves in in vivo human liver. , 2014, , .		3
95	3D in vivo ARFI imaging: Prostate cancer sensitivity. , 2014, , .		0
96	Dependence of shear wave spectral content on acoustic radiation force excitation duration and spatial beamwidth. , 2014, , .		24
97	Analyzing the impact of increasing Mechanical Index (MI) and energy deposition on shear wave speed (SWS) reconstruction in human liver. , 2014, , .		0
98	Improving the accuracy of shear wave speed reconstructions using 4D directional filters in the presence of reflection artifacts. , 2014, , .		2
99	Comparison of shear wave speed estimates in Ex vivo non-pregnant vs. In vivo pregnant cervix. , 2014, , .		1
100	Statistical analysis of shear wave speed in the uterine cervix. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1651-1660.	1.7	35
101	Feasibility of using a generalized-Gaussian Markov random field prior for Bayesian speckle tracking of small displacements. , 2014, , .		3
102	831: Feasibility of shear wave speed to evaluate cervical softness. American Journal of Obstetrics and Gynecology, 2014, 210, S404.	0.7	0
103	Estimation of shear wave speed in the human uterine cervix. Ultrasound in Obstetrics and Gynecology, 2014, 43, 452-458.	0.9	83
104	Acoustic radiation force elasticity imaging in diagnostic ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 685-701.	1.7	248
105	On the precision of time-of-flight shear wave speed estimation in homogeneous soft solids: initial results using a matrix array transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 758-770.	1.7	44
106	Ultrasonic characterization of the nonlinear properties of canine livers by measuring shear wave speed and axial strain with increasing portal venous pressure. Journal of Biomechanics, 2013, 46, 1875-1881.	0.9	19
107	Evaluating the feasibility of acoustic radiation force impulse shear wave elasticity imaging of the uterine cervix with an intracavity array: a simulation study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2053-2064.	1.7	30
108	Bayesian speckle tracking. Part I: an implementable perturbation to the likelihood function for ultrasound displacement estimation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 132-143.	1.7	28

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109	Bayesian shear wave speed estimation for in vivo 3D imaging of the prostate. , 2013, , .		1
110	Spatial variability of shear wave speed estimation in the non-pregnant cervix. , 2013, , .		0
111	Bayesian speckle tracking. Part II: biased ultrasound displacement estimation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 144-157.	1.7	38
112	Intracranial Dual-Mode IVUS and Hyperthermia Using Circular Arrays. Ultrasonic Imaging, 2013, 35, 17-29.	1.4	5
113	Acoustic radiation force impulse imaging of vulnerable plaques: a finite element method parametric analysis. Journal of Biomechanics, 2013, 46, 83-90.	0.9	31
114	Finite element modeling of impulsive excitation and shear wave propagation in an incompressible, transversely isotropic medium. Journal of Biomechanics, 2013, 46, 2761-2768.	0.9	71
115	RSNA/QIBA: Shear wave speed as a biomarker for liver fibrosis staging. , 2013, , .		52
116	Generation of a suite of 3D computerâ€generated breast phantoms from a limited set of human subject data. Medical Physics, 2013, 40, 043703.	1.6	30
117	Material characterization of in vivo and in vitro porcine brain using shear wave elasticity. , 2013, , .		0
118	Imaging Transverse Isotropic Properties of Muscle by Monitoring Acoustic Radiation Force Induced Shear Waves Using a 2-D Matrix Ultrasound Array. IEEE Transactions on Medical Imaging, 2013, 32, 1671-1684.	5.4	101
119	Detecting cervical softness with shear wave speed estimation. , 2013, , .		1
120	3D elasticity imaging with acoustic radiation force. , 2013, , .		0
121	The impact of hepatic pressurization on liver shear wave speed estimates in constrained versus unconstrained conditions. Physics in Medicine and Biology, 2012, 57, 329-341.	1.6	36
122	Comparison of concurrently acquired in vivo 3D ARFI and SWEI images of the prostate. , 2012, , .		9
123	Parameters affecting the resolution and accuracy of 2-D quantitative shear wave images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1729-1740.	1.7	101
124	3D shear wave imaging of anisotropic mechanical properties of muscle using a 2D matrix array transducer. , 2012, , .		0
125	Characterizing expansion and stiffening of the canine liver with increasing hepatic pressure. , 2012, , .		0
126	Effect of Prior Probability Quality on Biased Time-Delay Estimation. Ultrasonic Imaging, 2012, 34, 65-80.	1.4	3

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127	Acoustic Radiation Force Impulse Imaging of Human Prostates: Initial InÂVivo Demonstration. Ultrasound in Medicine and Biology, 2012, 38, 50-61.	0.7	59
128	Reply to: The use of acoustic radiation force-based shear stiffness in non-alcoholic fatty liver disease. Journal of Hepatology, 2012, 56, 996.	1.8	4
129	479: Exploration of the human cervix using acoustic radiation force impulse (ARFI) measurements. American Journal of Obstetrics and Gynecology, 2012, 206, S218.	0.7	2
130	Generalized Bayesian speckle tracking applied to strain and ARFI displacements. , 2011, , .		0
131	2227 IMAGING NEPHROLITHIASIS: AN PHANTOM MODEL COMPARING DIGITAL TOMOSYNTHESIS TO NON-CONTRAST CT. Journal of Urology, 2011, 185, .	0.2	0
132	GPU-based real-time small displacement estimation with ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 399-405.	1.7	33
133	Effect of Graphite Concentration on Shear-Wave Speed in Gelatin-Based Tissue-Mimicking Phantoms. Ultrasonic Imaging, 2011, 33, 134-142.	1.4	19
134	Noninvasive evaluation of hepatic fibrosis using acoustic radiation force-based shear stiffness in patients with nonalcoholic fatty liver disease. Journal of Hepatology, 2011, 55, 666-672.	1.8	318
135	Dual-Mode IVUS Transducer for Image-Guided Brain Therapy: Preliminary Experiments. Ultrasound in Medicine and Biology, 2011, 37, 1667-76.	0.7	19
136	7.5 USING FINITE ELEMENT ANALYSIS TO MODEL ACOUSTIC RADIATION FORCE IMAGING (ARFI) OF CAROTID ARTERY PLAQUES. Artery Research, 2011, 5, 147.	0.3	0
137	An analysis of the mechanical parameters used for finite element compression of a high-resolution 3D breast phantom. Medical Physics, 2011, 38, 5756-5770.	1.6	38
138	Acoustic Radiation Force-Driven Assessment of Myocardial Elasticity Using the Displacement Ratio Rate (DRR) Method. Ultrasound in Medicine and Biology, 2011, 37, 1087-1100.	0.7	27
139	Acoustic radiation force-based elasticity imaging methods. Interface Focus, 2011, 1, 553-564.	1.5	167
140	What challenges must be overcome before ultrasound elasticity imaging is ready for the clinic?. Imaging in Medicine, 2011, 3, 433-444.	0.0	45
141	Methodology to register prostate B-mode and ARFI images to MR and histology. , 2011, , .		1
142	Improving shear wave speed estimation precision in homogeneous media by tracking shear wave propagation in 3D using a real-time volumetric imaging transducer. , 2011, , .		1
143	Intracranial dual-mode IVUS and hyperthermia using circular arrays. , 2011, , .		0
144	Comparison of qualitative and quantitative acoustic radiation force based elasticity imaging methods. , 2011, , .		5

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145	Comparison of ultrasonic measurements of nulliparous versus multiparous cervices. , 2011, , .		3
146	Acoustic Radiation Force Impulse (ARFI) Imaging-Based Needle Visualization. Ultrasonic Imaging, 2011, 33, 1-16.	1.4	18
147	Comparison between Acoustic Radiation Force Impulse (ARFI)-based hepatic stiffness quantification in deformed and undeformed pressurized canine livers. , 2011, , .		1
148	Combined Ultrasonic Thermal Ablation with Interleaved ARFI Image Monitoring Using a Single Diagnostic Curvilinear Array: A Feasibility Study. Ultrasonic Imaging, 2011, 33, 217-232.	1.4	21
149	Acoustic Radiation Force Impulse Imaging of Human Prostates Ex Vivo. Ultrasound in Medicine and Biology, 2010, 36, 576-588.	0.7	63
150	Improving the Robustness of Time-of-Flight Based Shear WaveÂSpeed Reconstruction Methods Using RANSAC in Human Liver in vivo. Ultrasound in Medicine and Biology, 2010, 36, 802-813.	0.7	116
151	Characterizing Stiffness of Human Prostates Using Acoustic Radiation Force. Ultrasonic Imaging, 2010, 32, 201-213.	1.4	53
152	Improving precision of tissue shear modulus quantification within the region of acoustic radiation force excitation with compounded displacement estimates. , 2010, , .		1
153	Robust estimation of time-of-flight shear wave speed using a radon sum transformation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2662-2670.	1.7	123
154	Quantifying the impact of shear wavelength and kernel size on shear wave speed estimation. , 2010, , .		10
155	Robust estimation of time-of-flight shear wave speed using a Radon sum transformation. , 2010, , .		7
156	Optical tracking of acoustic radiation force impulse-induced dynamics in a tissue-mimicking phantom. Journal of the Acoustical Society of America, 2009, 126, 2733-2745.	0.5	13
157	Image quality, tissue heating, and frame rate trade-offs in acoustic radiation force impulse imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 63-76.	1.7	54
158	Concurrent ARFI imaging and HIFU ablation using a diagnostic transducer array and ultrasound system with custom beam sequences. , 2009, , .		1
159	Robust hepatic shear modulus reconstruction using acoustic radiation force and RANSAC. , 2009, , .		0
160	On the Feasibility of Imaging Peripheral Nerves Using Acoustic Radiation Force Impulse Imaging. Ultrasonic Imaging, 2009, 31, 172-182.	1.4	36
161	Blood-Brain Barrier (BBB) Disruption Using a Diagnostic Ultrasound Scanner and DefinityÂ® in Mice. Ultrasound in Medicine and Biology, 2009, 35, 1298-1308.	0.7	88
162	In vivo Quantification of Liver Stiffness in a Rat Model of Hepatic Fibrosis with Acoustic Radiation Force. Ultrasound in Medicine and Biology, 2009, 35, 1709-1721.	0.7	55

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163	Investigations into Pulsed High-Intensity Focused Ultrasoundâ€“Enhanced Delivery: Preliminary Evidence for a Novel Mechanism. Ultrasound in Medicine and Biology, 2009, 35, 1722-1736.	0.7	133
164	Optical quantification of acoustic radiation force impulse-induced dynamics in a translucent phantom. , 2009, , .		0
165	Quantitative Images of Elastic Modulus Using Tissue Dynamics in the Region of Impulsive Acoustic Radiation Force Excitation. , 2009, , .		0
166	Quantifying Hepatic Shear Modulus In Vivo Using Acoustic Radiation Force. Ultrasound in Medicine and Biology, 2008, 34, 546-558.	0.7	612
167	Three-dimensional acoustic radiation force impulse (ARFI) imaging of human prostates in vivo. , 2008, , .		9
168	An Integrated Indenter-ARFI Imaging System for Tissue Stiffness Quantification. Ultrasonic Imaging, 2008, 30, 95-111.	1.4	101
169	Acoustic radiation force based quantification of tissue shear modulus within the region of excitation. , 2008, , .		8
170	Investigating the effects of viscosity on focused, impulsive, acoustic radiation force induced shear wave morphology. , 2008, , .		0
171	ON THE POTENTIAL FOR GUIDANCE OF ABLATION THERAPY USING ACOUSTIC RADIATION FORCE IMPULSE IMAGING. , 2007, , .		2
172	Radiation force imaging: challenges and opportunities. , 2007, , .		0
173	A parallel tracking method for acoustic radiation force impulse imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 301-312.	1.7	122
174	7B-4 In-Vivo Staging of Liver Fibrosis in a Rat Model Using Acoustic Radiation Force. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
175	7B-6 Dependence of In Vivo, Radiation Force Derived Hepatic Shear Modulus Estimates on Imaging Approach: Intercostal vs. Subcostal. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
176	The Impact of Physiological Motion on Tissue Tracking During Radiation Force Imaging. Ultrasound in Medicine and Biology, 2007, 33, 1149-1166.	0.7	48
177	Ultrasonic tracking of acoustic radiation force-induced displacements in homogeneous media. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1300-1313.	1.7	157
178	4K-5 Shear Wave Velocity Estimation Using Acoustic Radiation Force Impulsive Excitation in Liver In Vivo. , 2006, , .		7
179	Dynamic mechanical response of elastic spherical inclusions to impulsive acoustic radiation force excitation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2065-2079.	1.7	100
180	Analysis of contrast in images generated with transient acoustic radiation force. Ultrasound in Medicine and Biology, 2006, 32, 61-72.	0.7	102

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181	Frame Rate Considerations for Real-Time Abdominal Acoustic Radiation Force Impulse Imaging. Ultrasonic Imaging, 2006, 28, 193-210.	1.4	20
182	Characterizing Acoustic Attenuation of Homogeneous Media Using Focused Impulsive Acoustic Radiation Force. Ultrasonic Imaging, 2006, 28, 114-128.	1.4	10
183	2J-6 Parallel Tracking and Other Methods for Real-Time ARFI Imaging Systems. , 2006, , .		0
184	P2E-6 Characterizing Acoustic Attenuation Using Focused Impulsive Acoustic Radiation Force. , 2006, , .		0
185	Image processing and data acquisition optimization for acoustic radiation force impulse imaging of in vivo breast masses. , 2005, , .		5
186	Acoustic radiation force impulse imaging of the abdomen: demonstration of feasibility and utility. Ultrasound in Medicine and Biology, 2005, 31, 1185-1198.	0.7	157
187	A finite-element method model of soft tissue response to impulsive acoustic radiation force. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1699-1712.	1.7	291
188	Acoustic Radiation Force Impulse (ARFI) Imaging of the Gastrointestinal Tract. Ultrasonic Imaging, 2005, 27, 75-88.	1.4	49
189	Acoustic radiation force impulse imaging of myocardial radiofrequency ablation: initial in vivo results. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 631-641.	1.7	92
190	Finite-element analysis of temperature rise and lesion formation from catheter ultrasound ablation transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1713-1721.	1.7	6
191	Experimental Studies of the Thermal Effects Associated with Radiation Force Imaging of Soft Tissue. Ultrasonic Imaging, 2004, 26, 100-114.	1.4	56
192	Acoustic radiation force impulse imaging of the mechanical properties of arteries: In vivo and ex vivo results. Ultrasound in Medicine and Biology, 2004, 30, 1163-1171.	0.7	131
193	On the thermal effects associated with radiation force imaging of soft tissue. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 551-565.	1.7	136
194	Imaging tissue mechanical properties using impulsive acoustic radiation force. , 2004, , .		3
195	On the thermal effects associated with radiation force imaging of soft tissue. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 551-65.	1.7	54
196	On the feasibility of remote palpation using acoustic radiation force. Journal of the Acoustical Society of America, 2001, 110, 625-634.	0.5	726
197	A Finite Element Model of Remote Palpation of Breast Lesions Using Radiation Force: Factors Affecting Tissue Displacement. Ultrasonic Imaging, 2000, 22, 35-54.	1.4	89
198	Finite element analysis of radiation force induced tissue motion with experimental validation. , 0, , .		8

#	Article	IF	Citations
199	Acoustic remote palpation: initial in vivo results. , 0, , .		1
200	Acoustic radiation force impulse imaging: remote palpation of the mechanical properties of tissue. , 0, , .		5
201	Ferromagnetic brachytherapy seed motion in soft tissue: models, measurements and ultrasound detection. , 0, , .		2
202	Thermal effects associated with acoustic radiation force impulse imaging. , 0, , .		6
203	ARFI imaging of the cardiovascular system. , 0, , .		0
204	Acoustic radiation force impulse imaging: a parametric analysis of factors affecting image quality. , 0, , .		8
205	Finite element analysis of temperature rise from an integrated 3-D intracardiac echo and ultrasound ablation transducer. , 0, , .		2
206	Ultrasonic Imaging of the Mechanical Properties of Tissues Using Localized, Transient Acoustic Radiation Force. , 0, , .		1
207	A combined indenter/ARFI imaging system. , 0, , .		1
208	Controlled spatio-temporal heating patterns using a commercial, diagnostic ultrasound system. , 0, , .		3
209	Acoustic Radiation Force Impulse (ARFI) Imaging: Fundamental Concepts and Image Formation. , 0, , 77-91.		0