

Tomy Varghese

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.

177
papers

3,974
citations

35
h-index

54
g-index

209
ext. papers

4,644
ext. citations

3
avg, IF

5.57
L-index

#	Paper	IF	Citations
177	Spatiotemporal Bayesian Regularization for Cardiac Strain Imaging: Simulation and Results. 2021 , 1, 21-36		0
176	Enhancement of in vivo cardiac photoacoustic signal specificity using spatiotemporal singular value decomposition. <i>Journal of Biomedical Optics</i> , 2021 , 26,	3.5	1
175	Spatiotemporal Coherence Weighting for In Vivo Cardiac Photoacoustic Image Beamformation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 586-598	3.2	6
174	Subaperture Processing-Based Adaptive Beamforming for Photoacoustic Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2336-2350	3.2	2
173	Differential Imaging of Liver Tumors before and after Microwave Ablation with Electrode Displacement Elastography. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 2138-2156	3.5	1
172	Bayesian Regularized Strain Imaging for Assessment of Murine Cardiac Function 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> , 2021 , 2021, 2883-2886	0.9	
171	Improving Minimum Variance Beamforming with Sub-Aperture Processing for Photoacoustic Imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 2879-2882	0.9	0
170	Carotid Plaque Strain Indices Were Correlated With Cognitive Performance in a Cohort With Advanced Atherosclerosis, and Traditional Doppler Measures Showed no Association. <i>Journal of Ultrasound in Medicine</i> , 2020 , 39, 2033-2042	2.9	2
169	Locally optimized correlation-guided Bayesian adaptive regularization for ultrasound strain imaging. <i>Physics in Medicine and Biology</i> , 2020 , 65, 065008	3.8	7
168	Interstitial diffuse optical probe with spectral fitting to measure dynamic tumor hypoxia. <i>Biomedical Physics and Engineering Express</i> , 2020 , 6,	1.5	1
167	Carotid Strain Imaging with a Locally Optimized Adaptive Bayesian Regularized Motion Tracking Algorithm 2020 ,		2
166	Cardiac Strain Imaging with Dynamically Skipped Frames: A Simulation Study 2020 ,		2
165	Photoacoustic Delay-and-Sum Beamforming with Spatiotemporal Coherence Factor 2020 ,		1
164	Lateral and shear strain imaging for ultrasound elastography 2020 , 167-183		
163	Physiological Motion Reduction Using Lagrangian Tracking for Electrode Displacement Elastography. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 766-781	3.5	3
162	Improving Ultrasound Lateral Strain Estimation Accuracy using Log Compression of Regularized Correlation Function. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 2031-2034	0.9	3
161	Adaptation of Dictionary Learning for Electrode Displacement Elastography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 2023-2026	0.9	

160	Study of the Relationship Between Ultrasound Strain Indices and Cognitive Decline for Vulnerable Carotid Plaque. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2088-2091</i>	0.9	
159	Deep Learning for Carotid Plaque Segmentation using a Dilated U-Net Architecture. <i>Ultrasonic Imaging, 2020, 42, 221-230</i>	1.9	9
158	Attenuation Coefficient Parameter Computations for Tissue Composition Assessment of Carotid Atherosclerotic Plaque in Vivo. <i>Ultrasound in Medicine and Biology, 2020, 46, 1513-1532</i>	3.5	2
157	Lagrangian carotid strain imaging indices normalized to blood pressure for vulnerable plaque. <i>Journal of Clinical Ultrasound, 2019, 47, 477-485</i>	1	1
156	Two-dimensional ultrasound-computed tomography image registration for monitoring percutaneous hepatic intervention. <i>Medical Physics, 2019, 46, 2600-2609</i>	4.4	5
155	A kernel smoothing algorithm for ablation visualization in ultrasound elastography. <i>Ultrasonics, 2019, 96, 267-275</i>	3.5	
154	carotid strain imaging using principal strains in longitudinal view. <i>Biomedical Physics and Engineering Express, 2019, 5,</i>	1.5	3
153	Influence of Ultrasound System and Gain on Grayscale Median Values. <i>Journal of Ultrasound in Medicine, 2019, 38, 307-319</i>	2.9	8
152	Hierarchical Motion Estimation With Bayesian Regularization in Cardiac Elastography: Simulation and In Vivo Validation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1708-1722</i>	3.2	8
151	Abstract WMP47: Traditional Doppler Measures Do Not predict Cognition in a Cohort With Advanced Atherosclerosis. <i>Stroke, 2019, 50,</i>	6.7	1
150	Comparison of Displacement Tracking Algorithms for in Vivo Electrode Displacement Elastography. <i>Ultrasound in Medicine and Biology, 2019, 45, 218-232</i>	3.5	7
149	Carotid atherosclerotic plaque instability and cognition determined by ultrasound-measured plaque strain in asymptomatic patients with significant stenosis. <i>Journal of Neurosurgery, 2018, 128, 111-119</i>	3.2	35
148	The Preservation of Cognition 1 Year After Carotid Endarterectomy in Patients With Prior Cognitive Decline. <i>Neurosurgery, 2018, 82, 322-328</i>	3.2	18
147	Real-Time in Vivo Photoacoustic Imaging in the Assessment of Myocardial Dynamics in Murine Model of Myocardial Ischemia. <i>Ultrasound in Medicine and Biology, 2018, 44, 2155-2164</i>	3.5	16
146	In Reply: The Preservation of Cognition 1 Year After Carotid Endarterectomy in Patients With Prior Cognitive Decline. <i>Neurosurgery, 2018, 83, E181</i>	3.2	
145	Dictionary Representations for Electrode Displacement Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2381-2389</i>	3.2	8
144	GPU Accelerated Multilevel Lagrangian Carotid Strain Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1370-1379</i>	3.2	16
143	Efficient 3-D Reconstruction in Ultrasound Elastography via a Sparse Iteration Based on Markov Random Fields. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 491-499</i>	3.2	2

142	Monitoring Microwave Ablation of Ex Vivo Bovine Liver Using Ultrasonic Attenuation Imaging. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 1441-1451	3.5	13
141	Delineation of Post-Procedure Ablation Regions with Electrode Displacement Elastography with a Comparison to Acoustic Radiation Force Impulse Imaging. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 1953-1962	3.5	7
140	Normalization of carotid plaque based strain indices using blood pressure measurements 2017 ,		2
139	In-vivo quantitative ultrasound evaluation of carotid plaque 2017 ,		1
138	Transcranial Doppler and Microemboli Detection: Relationships to Symptomatic Status and Histopathology Findings. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 1861-1867	3.5	6
137	Lower Bound on Estimation Variance of the Ultrasonic Attenuation Coefficient Using the Spectral-Difference Reference-phantom Method. <i>Ultrasonic Imaging</i> , 2017 , 39, 151-171	1.9	4
136	Histopathologic Validation of Grayscale Carotid Plaque Characteristics Related to Plaque Vulnerability. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 129-137	3.5	37
135	Improved Correlation of Strain Indices with Cognitive Dysfunction with Inclusion of Adventitial Layer with Carotid Plaque. <i>Ultrasonic Imaging</i> , 2016 , 38, 194-208	1.9	13
134	Classification of Symptomatic and Asymptomatic Patients with and without Cognitive Decline Using Non-invasive Carotid Plaque Strain Indices as Biomarkers. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 909-18	3.5	24
133	Segmental Analysis of Cardiac Short-Axis Views Using Lagrangian Radial and Circumferential Strain. <i>Ultrasonic Imaging</i> , 2016 , 38, 363-383	1.9	9
132	Optimum Diffraction-Corrected Frequency-Shift Estimator of the Ultrasonic Attenuation Coefficient. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 691-702	3.2	12
131	Comparison of three dimensional strain volume reconstructions using SOUPR and wobbler based acquisitions: A phantom study. <i>Medical Physics</i> , 2016 , 43, 1615	4.4	3
130	Post-Procedure Evaluation of Microwave Ablations of Hepatocellular Carcinomas Using Electrode Displacement Elastography. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 2893-2902	3.5	13
129	Relative Elastic Modulus Imaging Using Sector Ultrasound Data for Abdominal Applications: An Evaluation of Strategies and Feasibility. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 1432-40	3.2	5
128	Performance evaluation of the spectral centroid downshift method for attenuation estimation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 871-80	3.2	17
127	Dynamic and quasi-static mechanical testing for characterization of the viscoelastic properties of human uterine tissue. <i>Journal of Biomechanics</i> , 2015 , 48, 1730-6	2.9	16
126	Slope Estimation in Noisy Piecewise Linear Functions. <i>Signal Processing</i> , 2015 , 108, 576-588	4.4	8
125	The relationship between carotid artery plaque stability and white matter ischemic injury. <i>NeuroImage: Clinical</i> , 2015 , 9, 216-22	5.3	24

124	Ultrasonic tracking of shear waves using a particle filter. <i>Medical Physics</i> , 2015 , 42, 6711-24	4.4	5
123	Analysis of 2-d ultrasound cardiac strain imaging using joint probability density functions. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 1118-32	3.5	2
122	Alterations in Ultrasound Scattering Following Thermal Ablation in Bovine Liver. <i>Ultrasonics Symposium (IUS), 2009 IEEE International</i> , 2014 , 2014, 1904-1907	0.8	
121	Three-dimensional sheaf of ultrasound planes reconstruction (SOUPR) of ablated volumes. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 1677-88	11.7	10
120	Correlation of cognitive function with ultrasound strain indices in carotid plaque. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 78-89	3.5	29
119	Carotid plaque characterization with histology and quantitative ultrasound 2014 ,		2
118	C-plane Reconstructions from Sheaf Acquisition for Ultrasound Electrode Vibration Elastography. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2014 , 2014, 1826-1829		
117	Three dimensional shear wave elastographic reconstruction of ablations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2857-60	0.9	
116	Signal to noise ratio comparisons for ultrasound attenuation slope estimation algorithms. <i>Medical Physics</i> , 2014 , 41, 032902	4.4	4
115	Stochastic piecewise linear function fitting with application to ultrasound shear wave imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2861-4	0.9	0
114	Mean scatterer spacing estimation in normal and thermally coagulated ex vivo bovine liver. <i>Ultrasonic Imaging</i> , 2014 , 36, 79-97	1.9	7
113	Scatterer number density considerations in reference phantom-based attenuation estimation. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 1680-96	3.5	14
112	Transrectal quantitative shear wave elastography in the detection and characterisation of prostate cancer. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2013 , 27, 3280-7	5.2	79
111	Comparison of cardiac displacement and strain imaging using ultrasound radiofrequency and envelope signals. <i>Ultrasonics</i> , 2013 , 53, 782-92	3.5	24
110	Tissue mimicking materials for the detection of prostate cancer using shear wave elastography: a validation study. <i>Medical Physics</i> , 2013 , 40, 022903	4.4	25
109	An approach to unbiased subsample interpolation for motion tracking. <i>Ultrasonic Imaging</i> , 2013 , 35, 76-87	7.9	20
108	Mean scatterer spacing estimation using multi-taper coherence. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 1061-73	3.2	13
107	Evaluation of the impact of backscatter intensity variations on ultrasound attenuation estimation. <i>Medical Physics</i> , 2013 , 40, 082904	4.4	8

106	Coherence of Ultrasound Radiofrequency Echoes from the Liver Estimated Using Multi-Taper Calculation 2013 , 2013, 724-727	1.5	1
105	A COMPARISON OF MODEL BASED AND DIRECT OPTIMIZATION BASED FILTERING ALGORITHMS FOR SHEARWAVE VELOCITY RECONSTRUCTION FOR ELECTRODE VIBRATION ELASTOGRAPHY 2013 , 2013, 760-763	1.5	1
104	Normal and shear strain imaging using 2D deformation tracking on beam steered linear array datasets. <i>Medical Physics</i> , 2013 , 40, 012902	4.4	5
103	Quantifying local stiffness variations in radiofrequency ablations with dynamic indentation. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 728-35	5	18
102	Characterizing the compression-dependent viscoelastic properties of human hepatic pathologies using dynamic compression testing. <i>Physics in Medicine and Biology</i> , 2012 , 57, 2273-86	3.8	23
101	Improving thermal ablation delineation with electrode vibration elastography using a bidirectional wave propagation assumption. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 168-73	3.2	7
100	Impaired cognitive function in patients with atherosclerotic carotid stenosis and correlation with ultrasound strain measurements. <i>Journal of the Neurological Sciences</i> , 2012 , 322, 20-4	3.2	22
99	A novel saline infusion sonohysterography-based strain imaging approach for evaluation of uterine abnormalities in vivo: preliminary results. <i>Journal of Ultrasound in Medicine</i> , 2012 , 31, 609-15	2.9	5
98	Lagrangian displacement tracking using a polar grid between endocardial and epicardial contours for cardiac strain imaging. <i>Medical Physics</i> , 2012 , 39, 1779-92	4.4	13
97	Visualizing ex vivo radiofrequency and microwave ablation zones using electrode vibration elastography. <i>Medical Physics</i> , 2012 , 39, 6692-700	4.4	24
96	In vivo classification of breast masses using features derived from axial-strain and axial-shear images. <i>Ultrasonic Imaging</i> , 2012 , 34, 222-36	1.9	16
95	Displacement and strain estimation for evaluation of arterial wall stiffness using a familial hypercholesterolemia swine model of atherosclerosis. <i>Medical Physics</i> , 2012 , 39, 4483-92	4.4	7
94	Absolute backscatter coefficient estimates of tissue-mimicking phantoms in the 5-50 MHz frequency range. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 737-43	2.2	8
93	Shear wave velocity imaging using transient electrode perturbation: phantom and ex vivo validation. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 666-78	11.7	24
92	Analysis of shear strain imaging for classifying breast masses: finite element and phantom results. <i>Medical Physics</i> , 2011 , 38, 6119-27	4.4	8
91	Bayesian regularization applied to ultrasound strain imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 1612-20	5	39
90	Exvivo ultrasound attenuation coefficient for human cervical and uterine tissue from 5 to 10 MHz. <i>Ultrasonics</i> , 2011 , 51, 467-71	3.5	12
89	Theoretical and phantom based investigation of the impact of sound speed and backscatter variations on attenuation slope estimation. <i>Ultrasonics</i> , 2011 , 51, 758-67	3.5	12

88	Ultrasonic attenuation imaging using spectral cross-correlation and the reference phantom method 2011 ,		3
87	Axial-shear strain imaging for differentiating benign and malignant breast masses. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1813-24	3.5	40
86	Electrode displacement strain imaging of thermally-ablated liver tissue in an in vivo animal model. <i>Medical Physics</i> , 2010 , 37, 1075-82	4.4	26
85	Compression-dependent viscoelastic behavior of human cervix tissue. <i>Ultrasonic Imaging</i> , 2010 , 32, 214-289		14
84	Radiofrequency electrode vibration-induced shear wave imaging for tissue modulus estimation: a simulation study. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, 1582-5	2.2	17
83	Dynamic frame selection for in vivo ultrasound temperature estimation during radiofrequency ablation. <i>Physics in Medicine and Biology</i> , 2010 , 55, 4735-53	3.8	17
82	Ultrasound-based relative elastic modulus imaging for visualizing thermal ablation zones in a porcine model. <i>Physics in Medicine and Biology</i> , 2010 , 55, 2281-306	3.8	20
81	A review of carotid atherosclerosis and vascular cognitive decline: a new understanding of the keys to symptomology. <i>Neurosurgery</i> , 2010 , 67, 484-93; discussion 493-4	3.2	58
80	Three-dimensional canine heart model for cardiac elastography. <i>Medical Physics</i> , 2010 , 37, 5876-86	4.4	11
79	Young's modulus reconstruction for radio-frequency ablation electrode-induced displacement fields: a feasibility study. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1325-34	11.7	36
78	Estimation of the optimal maximum beam angle and angular increment for normal and shear strain estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 760-9	5	11
77	In vivo attenuation and equivalent scatterer size parameters for atherosclerotic carotid plaque: preliminary results. <i>Ultrasonics</i> , 2009 , 49, 779-85	3.5	18
76	Ultrasound frame rate requirements for cardiac elastography: experimental and in vivo results. <i>Ultrasonics</i> , 2009 , 49, 98-111	3.5	24
75	Principal component analysis of shear strain effects. <i>Ultrasonics</i> , 2009 , 49, 472-83	3.5	5
74	Investigation of temperature-dependent viscoelastic properties of thermal lesions in ex vivo animal liver tissue. <i>Journal of Biomechanics</i> , 2009 , 42, 959-66	2.9	39
73	Quasi-Static Ultrasound Elastography. <i>Ultrasound Clinics</i> , 2009 , 4, 323-338		107
72	2009 ,		1
71	In vivo ultrasound electrode displacement strain imaging 2009 ,		2

70	Measurement of tendon strain during muscle twitch contractions using ultrasound elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 27-35	3.2	47
69	Multilevel hybrid 2D strain imaging algorithm for ultrasound sector/phased arrays. <i>Medical Physics</i> , 2009 , 36, 2098-106	4.4	23
68	Estimation of ultrasound attenuation from broadband echo-signals using bandpass filtering. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008 , 55, 1153-9	3.2	5
67	Preliminary in vivo atherosclerotic carotid plaque characterization using the accumulated axial strain and relative lateral shift strain indices. <i>Physics in Medicine and Biology</i> , 2008 , 53, 6377-94	3.8	75
66	Correlation analysis of three-dimensional strain imaging using ultrasound two-dimensional array transducers. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, 1858-65	2.2	12
65	Numerical Study of Microwave Scattering in Breast Tissue via Coupled Dielectric and Elastic Contrasts. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 247-250	3.8	21
64	Simulation of ultrasound two-dimensional array transducers using a frequency domain model. <i>Medical Physics</i> , 2008 , 35, 3162-9	4.4	5
63	Radio-frequency ablation electrode displacement elastography: a phantom study. <i>Medical Physics</i> , 2008 , 35, 2432-42	4.4	26
62	Noise analysis and improvement of displacement vector estimation from angular displacements. <i>Medical Physics</i> , 2008 , 35, 2007-17	4.4	6
61	Shear strain imaging using shear deformations. <i>Medical Physics</i> , 2008 , 35, 412-23	4.4	14
60	Anthropomorphic phantoms for assessment of strain imaging methods involving saline-infused sonohysterography. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 1622-37	3.5	10
59	Relationship between ultrasonic attenuation, size and axial strain parameters for ex vivo atherosclerotic carotid plaque. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 1666-77	3.5	17
58	Hybrid spectral domain method for attenuation slope estimation. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 1808-19	3.5	58
57	Three-dimensional electrode displacement elastography using the Siemens C7F2 fourSight four-dimensional ultrasound transducer. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 1307-16	3.5	42
56	Finite element analysis of tissue deformation with a radiofrequency ablation electrode for strain imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 281-9	3.2	14
55	Correlation analysis for angular compounding in strain imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 1903-7	3.2	9
54	Improvement of elastographic displacement estimation using a two-step cross-correlation method. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 48-56	3.5	52
53	Normal and shear strain estimation using beam steering on linear-array transducers. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 57-66	3.5	44

52	Ultrasonic attenuation estimation in small plaque samples using a power difference method. <i>Ultrasonic Imaging</i> , 2007 , 29, 15-30	1.9	6
51	Two-dimensional multi-level strain estimation for discontinuous tissue. <i>Physics in Medicine and Biology</i> , 2007 , 52, 389-401	3.8	110
50	In vitro uterine strain imaging: preliminary results. <i>Journal of Ultrasound in Medicine</i> , 2007 , 26, 899-908	2.9	24
49	Attenuation estimation using spectral cross-correlation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 510-9	3.2	54
48	Stability of heterogeneous elastography phantoms made from oil dispersions in aqueous gels. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 261-70	3.5	56
47	Contrast-transfer improvement for electrode displacement elastography. <i>Physics in Medicine and Biology</i> , 2006 , 51, 6403-18	3.8	17
46	Frequency-dependent complex modulus of the uterus: preliminary results. <i>Physics in Medicine and Biology</i> , 2006 , 51, 3683-95	3.8	44
45	Correlation analysis of the beam angle dependence for elastography. <i>Journal of the Acoustical Society of America</i> , 2006 , 119, 4093-101	2.2	8
44	Elastographic measurements of in-vivo radiofrequency ablation lesions of the kidney. <i>Journal of Endourology</i> , 2006 , 20, 959-64	2.7	29
43	Spatial-angular compounding for elastography using beam steering on linear array transducers. <i>Medical Physics</i> , 2006 , 33, 618-26	4.4	26
42	The Ultrasonix 500RP: a commercial ultrasound research interface. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 1772-82	3.2	29
41	Evaluation of acoustic wave propagation velocities in the ocular lens and vitreous tissues of pigs, dogs, and rabbits. <i>American Journal of Veterinary Research</i> , 2006 , 67, 288-95	1.1	16
40	Initial clinical experience imaging scatterer size and strain in thyroid nodules. <i>Journal of Ultrasound in Medicine</i> , 2006 , 25, 1021-9	2.9	30
39	Segmentation of elastographic images using a coarse-to-fine active contour model. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 397-408	3.5	21
38	Anthropomorphic breast phantoms for testing elastography systems. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 857-74	3.5	78
37	Correlation of RF signals during angular compounding. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 961-70	3.2	16
36	Tissue-mimicking agar/gelatin materials for use in heterogeneous elastography phantoms. <i>Physics in Medicine and Biology</i> , 2005 , 50, 5597-618	3.8	175
35	Improvements in elastographic contrast-to-noise ratio using spatial-angular compounding. <i>Ultrasound in Medicine and Biology</i> , 2005 , 31, 529-36	3.5	29

34	Monitoring stiffness changes in lesions after radiofrequency ablation at different temperatures and durations of ablation. <i>Ultrasound in Medicine and Biology</i> , 2005 , 31, 415-22	3.5	63
33	A general solution for catheter position effects for strain estimation in intravascular elastography. <i>Ultrasound in Medicine and Biology</i> , 2005 , 31, 1509-26	3.5	11
32	Ultrasonic noninvasive temperature estimation using echoshift gradient maps: simulation results. <i>Ultrasonic Imaging</i> , 2005 , 27, 166-80	1.9	10
31	Spherical lesion phantoms for testing the performance of elastography systems. <i>Physics in Medicine and Biology</i> , 2005 , 50, 5983-95	3.8	29
30	Spatial angular compounding for elastography without the incompressibility assumption. <i>Ultrasonic Imaging</i> , 2005 , 27, 256-70	1.9	22
29	Impact of gas bubbles generated during interstitial ablation on elastographic depiction of in vitro thermal lesions. <i>Journal of Ultrasound in Medicine</i> , 2004 , 23, 535-44; quiz 545-6	2.9	37
28	Correlation of ultrasonic scatterer size estimates for the statistical analysis and optimization of angular compounding. <i>Journal of the Acoustical Society of America</i> , 2004 , 116, 1832-41	2.2	10
27	Elastographic versus x-ray CT imaging of radio frequency ablation coagulations: an in vitro study. <i>Medical Physics</i> , 2004 , 31, 1322-32	4.4	16
26	Elastographic imaging of thermal lesions in liver in-vivo using diaphragmatic stimuli. <i>Ultrasonic Imaging</i> , 2004 , 26, 18-28	1.9	29
25	Adaptive spectral strain estimators for elastography. <i>Ultrasonic Imaging</i> , 2004 , 26, 131-49	1.9	16
24	Viscoelastic characterization of in vitro canine tissue. <i>Physics in Medicine and Biology</i> , 2004 , 49, 4207-18	3.8	127
23	Wavelet denoising of displacement estimates in elastography. <i>Ultrasound in Medicine and Biology</i> , 2004 , 30, 477-91	3.5	30
22	Noise reduction using spatial-angular compounding for elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 510-20	3.2	13
21	Improved parametric imaging of scatterer size estimates using angular compounding. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 708-15	3.2	10
20	Elastographic measurement of the area and volume of thermal lesions resulting from radiofrequency ablation: pathologic correlation. <i>American Journal of Roentgenology</i> , 2003 , 181, 701-7	5.4	68
19	Ultrasonic imaging of myocardial strain using cardiac elastography. <i>Ultrasonic Imaging</i> , 2003 , 25, 1-16	1.9	41
18	Ultrasound attenuation imaging using compound acquisition and processing. <i>Ultrasonic Imaging</i> , 2003 , 25, 245-61	1.9	19
17	Statistics of ultrasonic scatterer size estimation with a reference phantom. <i>Journal of the Acoustical Society of America</i> , 2003 , 113, 3430-7	2.2	38

16	Elastography: Imaging the elastic properties of soft tissues with ultrasound. <i>Journal of Medical Ultrasonics (2001)</i> , 2002 , 29, 155	1.4	225
15	Phase aberration effects in elastography. <i>Ultrasound in Medicine and Biology</i> , 2001 , 27, 819-27	3.5	8
14	Experimental corroboration of the nonstationary strain estimation errors in elastography. <i>Ultrasound in Medicine and Biology</i> , 2001 , 27, 1677-82	3.5	3
13	Elastography. <i>Comptes Rendus Physique</i> , 2001 , 2, 1193-1212		7
12	Spectral estimators in elastography. <i>Ultrasonics</i> , 2000 , 38, 412-6	3.5	17
11	Theoretical bounds on the estimation of transverse displacement, transverse strain and Poisson's ratio in elastography. <i>Ultrasonic Imaging</i> , 2000 , 22, 153-77	1.9	43
10	A method for experimental characterization of the noise performance of elastographic systems. <i>Ultrasonic Imaging</i> , 1999 , 21, 17-30	1.9	7
9	Characterization of elastographic noise using the envelope of echo signals. <i>Ultrasound in Medicine and Biology</i> , 1998 , 24, 543-55	3.5	51
8	An analysis of elastographic contrast-to-noise ratio. <i>Ultrasound in Medicine and Biology</i> , 1998 , 24, 915-24	3.5	123
7	Elastographic dynamic range expansion using variable applied strains. <i>Ultrasonic Imaging</i> , 1997 , 19, 145-66		37
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1	Characterization of tissue microstructure scatterer distribution with spectral correlation. <i>Ultrasonic Imaging</i> , 1993 , 15, 238-54	1.9	25