Jan D'hooge

List of Publications by Year
in descending order

466 papers	17,207 citations	14655 66 h-index	18647 119 g-index
493 all docs	493 docs citations	493 times ranked	13083 citing authors

#	Article	IF	Citations
1	Standardization of left atrial, right ventricular, and right atrial deformation imaging using two-dimensional speckle tracking echocardiography: a consensus document of the EACVI/ASE/Industry Task Force to standardize deformation imaging. European Heart Journal Cardiovascular Imaging, 2018, 19, 591-600.	1.2	891
2	Regional Strain and Strain Rate Measurements by Cardiac Ultrasound: Principles, Implementation and Limitations. European Journal of Echocardiography, 2000, 1, 154-170.	2.3	864
3	Definitions for a Common Standard for 2D Speckle Tracking Echocardiography: Consensus Document of the EACVI/ASE/Industry Task Force to Standardize Deformation Imaging. Journal of the American Society of Echocardiography, 2015, 28, 183-193.	2.8	855
4	Definitions for a common standard for 2D speckle tracking echocardiography: consensus document of the EACVI/ASE/Industry Task Force to standardize deformation imaging. European Heart Journal Cardiovascular Imaging, 2015, 16, 1-11.	1.2	830
5	Strain and strain rate imaging: a new clinical approach to quantifying regional myocardial function. Journal of the American Society of Echocardiography, 2004, 17, 788-802.	2.8	575
6	Experimental Validation of a New Ultrasound Method for the Simultaneous Assessment of Radial and Longitudinal Myocardial Deformation Independent of Insonation Angle. Circulation, 2005, 112, 2157-2162.	1.6	314
7	Deep Learning for Segmentation Using an Open Large-Scale Dataset in 2D Echocardiography. IEEE Transactions on Medical Imaging, 2019, 38, 2198-2210.	8.9	292
8	Myocardial elastographyâ€"a feasibility study in vivo. Ultrasound in Medicine and Biology, 2002, 28, 475-482.	1.5	274
9	Can natural strain and strain rate quantify regional myocardial deformation? A study in healthy subjects. Ultrasound in Medicine and Biology, 2001, 27, 1087-1097.	1.5	247
10	Left ventricular flow patterns in healthy subjects and patients with prosthetic mitral valves: An in vivo study using echocardiographic particle image velocimetry. Journal of Thoracic and Cardiovascular Surgery, 2010, 139, 1501-1510.	0.8	229
11	The Generalized Contrast-to-Noise Ratio: A Formal Definition for Lesion Detectability. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 745-759.	3.0	226
12	Remodeling of T-Tubules and Reduced Synchrony of Ca ²⁺ Release in Myocytes From Chronically Ischemic Myocardium. Circulation Research, 2008, 102, 338-346.	4.5	208
13	Quantification of regional left and right ventricular radial and longitudinal function in healthy children using ultrasound-based Strain Rate and Strain Imaging. Journal of the American Society of Echocardiography, 2002, 15, 20-28.	2.8	202
14	Left ventricular strain and strain rate: characterization of the effect of load in human subjects. European Journal of Echocardiography, 2010, 11, 283-289.	2.3	192
15	Left ventricular strain and strain rate in a general population. European Heart Journal, 2008, 29, 2014-2023.	2.2	188
16	Deformation imaging describes right ventricular function better than longitudinal displacement of the tricuspid ring. Heart, 2010, 96, 281-288.	2.9	186
17	Noninvasive Quantification of the Contractile Reserve of Stunned Myocardium by Ultrasonic Strain Rate and Strain. Circulation, 2001, 104, 1059-1065.	1.6	183
18	Absence of SPARC results in increased cardiac rupture and dysfunction after acute myocardial infarction. Journal of Experimental Medicine, 2009, 206, 113-123.	8.5	180

#	Article	IF	Citations
19	Identification of acutely ischemic myocardium using ultrasonic strain measurements. Journal of the American College of Cardiology, 2003, 41, 810-819.	2.8	177
20	Myocardial Dysfunction Late After Low-Dose Anthracycline Treatment in Asymptomatic Pediatric Patients. Journal of the American Society of Echocardiography, 2007, 20, 1351-1358.	2.8	174
21	Feasibility of strain and strain rate imaging for the assessment of regional left atrial deformation: A study in normal subjects. European Journal of Echocardiography, 2006, 7, 199-208.	2.3	173
22	Defining the Transmurality of a Chronic Myocardial Infarction by Ultrasonic Strain-Rate Imaging. Circulation, 2003, 107, 883-888.	1.6	170
23	Ultrafast Cardiac Ultrasound Imaging. JACC: Cardiovascular Imaging, 2014, 7, 812-823.	5.3	167
24	Strain Rate Imaging Detects Early Cardiac Effects of Pegylated Liposomal Doxorubicin as Adjuvant Therapy in Elderly Patients with Breast Cancer. Journal of the American Society of Echocardiography, 2008, 21, 1283-1289.	2.8	165
25	Two-dimensional ultrasonic strain rate measurement of the human heart in vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 281-286.	3.0	164
26	Ultrastructural and Functional Remodeling of the Coupling Between Ca ²⁺ Influx and Sarcoplasmic Reticulum Ca ²⁺ Release in Right Atrial Myocytes From Experimental Persistent Atrial Fibrillation. Circulation Research, 2009, 105, 876-885.	4.5	160
27	Three-Dimensional Cardiac Strain Estimation Using Spatioâ€“Temporal Elastic Registration of Ultrasound Images: A Feasibility Study. IEEE Transactions on Medical Imaging, 2008, 27, 1580-1591.	8.9	148
28	Current State of Three-Dimensional Myocardial Strain Estimation Using Echocardiography. Journal of the American Society of Echocardiography, 2013, 26, 15-28.	2.8	148
29	Recommendations of the European Association of Echocardiography How to use echo-Doppler in clinical trials: different modalities for different purposes. European Journal of Echocardiography, 2011, 12, 339-353.	2.3	137
30	Can strain rate and strain quantify changes in regional systolic function during dobutamine infusion, B-blockade, and atrial pacingâ€”implications for quantitative stress echocardiography. Journal of the American Society of Echocardiography, 2002, 15, 416-424.	2.8	136
31	Acute Cardiac Functional and Morphological Changes After Anthracycline Infusions in Children. American Journal of Cardiology, 2007, 99, 974-977.	1.6	135
32	Quantification of the spectrum of changes in regional myocardial function during acute ischemia in closed chest pigs: An ultrasonic strain rate and strain study. Journal of the American Society of Echocardiography, 2001, 14, 874-884.	2.8	129
33	Echocardiographic strain and strain-rate imaging: a new tool to study regional myocardial function. IEEE Transactions on Medical Imaging, 2002, 21, 1022-1030.	8.9	127
34	Exercise Strain Rate Imaging Demonstrates Normal Right Ventricular Contractile Reserve and Clarifies Ambiguous Resting Measures in Endurance Athletes. Journal of the American Society of Echocardiography, 2012, 25, 253-262.e1.	2.8	127
35	Fast automatic myocardial segmentation in 4D cine CMR datasets. Medical Image Analysis, 2014, 18, 1115-1131.	11.6	126
36	Temporal diffeomorphic free-form deformation: Application to motion and strain estimation from 3D echocardiography. Medical Image Analysis, 2012, 16, 427-450.	11.6	123

#	Article	IF	Citations
37	The relative value of strain and strain rate for defining intrinsic myocardial function. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H188-H195.	3.2	122
38	Regional Right Ventricular Dysfunction in Chronic Pulmonary Hypertension. Journal of the American Society of Echocardiography, 2007, 20, 1172-1180.	2.8	117
39	A fast convolution-based methodology to simulate 2-Dd/3-D cardiac ultrasound images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 404-409.	3.0	117
40	Gene-Targeting of Phd2 Improves Tumor Response to Chemotherapy and Prevents Side-Toxicity. Cancer Cell, 2012, 22, 263-277.	16.8	117
41	Automated tissue characterization of in vivo atherosclerotic plaques by intravascular optical coherence tomography images. Biomedical Optics Express, 2013, 4, 1014.	2.9	117
42	Acute changes in systolic and diastolic events during clinical coronary angioplasty: A comparison of regional velocity, strain rate, and strain measurement. Journal of the American Society of Echocardiography, 2002, 15, 1-12.	2.8	113
43	Multi-Transmit Beam Forming for Fast Cardiac Imagingâ€"Experimental Validation and In Vivo Application. IEEE Transactions on Medical Imaging, 2014, 33, 1205-1219.	8.9	111
44	Early Regional Myocardial Dysfunction in Young Patients With Duchenne Muscular Dystrophy. Journal of the American Society of Echocardiography, 2008, 21, 1049-1054.	2.8	110
45	B-Spline Explicit Active Surfaces: An Efficient Framework for Real-Time 3-D Region-Based Segmentation. IEEE Transactions on Image Processing, 2012, 21, 241-251.	9.8	107
46	Detection and monitoring of cardiotoxicityâ€"what does modern cardiology offer?. Supportive Care in Cancer, 2008, 16, 437-445.	2.2	95
47	Improved regional function after autologous bone marrow-derived stem cell transfer in patients with acute myocardial infarction: a randomized, double-blind strain rate imaging study. European Heart Journal, 2008, 30, 662-670.	2.2	92
48	Absence of Thrombospondin-2 Causes Age-Related Dilated Cardiomyopathy. Circulation, 2009, 120, 1585-1597.	1.6	92
49	A Pipeline for the Generation of Realistic 3D Synthetic Echocardiographic Sequences: Methodology and Open-Access Database. IEEE Transactions on Medical Imaging, 2015, 34, 1436-1451.	8.9	91
50	Diagnosis of Heart Failure With Preserved Ejection Fraction: Machine Learning of Spatiotemporal Variations in Left Ventricular Deformation. Journal of the American Society of Echocardiography, 2018, 31, 1272-1284.e9.	2.8	90
51	Can changes in systolic longitudinal deformation quantify regional myocardial function after an acute infarction? An ultrasonic strain rate and strain study. Journal of the American Society of Echocardiography, 2002, 15, 723-730.	2.8	89
52	Automatic segmentation of in-vivo intra-coronary optical coherence tomography images to assess stent strut apposition and coverage. International Journal of Cardiovascular Imaging, 2012, 28, 229-241.	1.5	89
53	The sequential changes in myocardial thickness and thickening which occur during acute transmural infarction, infarct reperfusion and the resultant expression of reperfusion injury. European Heart Journal, 2004, 25, 794-803.	2.2	87
54	Long-term blinded placebo-controlled study of SNT-MC17/idebenone in the dystrophin deficient mdx mouse: cardiac protection and improved exercise performance. European Heart Journal, 2008, 30, 116-124.	2.2	86

#	Article	IF	Citations
55	Comparison of time-domain displacement estimators for two-dimensional RF tracking. Ultrasound in Medicine and Biology, 2003, 29, 1177-1186.	1.5	84
56	Prospective Assessment of Fetal Cardiac Function With Speckle Tracking in Healthy Fetuses and Recipient Fetuses of Twin-to-Twin Transfusion Syndrome. Journal of the American Society of Echocardiography, 2010, 23, 301-308.	2.8	83
57	Standardized Evaluation System for Left Ventricular Segmentation Algorithms in 3D Echocardiography. IEEE Transactions on Medical Imaging, 2016, 35, 967-977.	8.9	82
58	Abnormal Postsystolic Thickening in Acutely Ischemic Myocardium During Coronary Angioplasty: A Velocity, Strain, and Strain Rate Doppler Myocardial Imaging Study. Journal of the American Society of Echocardiography, 1999, 12, 994-996.	2.8	80
59	The influence of frame rate on two-dimensional speckle-tracking strain measurements: a study on silico-simulated models and images recorded in patients. European Heart Journal Cardiovascular Imaging, 2015, 16, 1137-1147.	1.2	79
60	Regional myocardial deformation in children with hypertrophic cardiomyopathy: morphological and clinical correlations. European Heart Journal, 2007, 28, 2886-2894.	2.2	78
61	Multi-transmit beam forming for fast cardiac imaging-a simulation study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1719-1731.	3.0	78
62	The potential clinical role of ultrasonic strain and strain rate imaging in diagnosing acute rejection after heart transplantationâ˜†. European Journal of Echocardiography, 2007, 8, 213-221.	2.3	76
63	Experimental assessment of a new research tool for the estimation of two-dimensional myocardial strain. Ultrasound in Medicine and Biology, 2006, 32, 1509-1513.	1.5	75
64	RF-based two-dimensional cardiac strain estimation: a validation study in a tissue-mimicking phantom. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1537-1546.	3.0	73
65	Additive Prognostic Value of Left Ventricular Systolic Dysfunction in a Population-Based Cohort. Circulation: Cardiovascular Imaging, 2016, 9, .	2.6	73
66	Doppler myocardial imaging. A new tool to assess regional inhomogeneity in cardiac function. Basic Research in Cardiology, 2001, 96, 595-605.	5.9	71
67	Comparison of conventional parallel beamforming with plane wave and diverging wave imaging for cardiac applications: a simulation study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1654-1663.	3.0	71
68	Cardiovascular magnetic resonance myocardial feature tracking using a non-rigid, elastic image registration algorithm: assessment of variability in a real-life clinical setting. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 24.	3.3	71
69	Thrombospondin-2 prevents cardiac injury and dysfunction in viral myocarditis through the activation of regulatory T-cells. Cardiovascular Research, 2012, 94, 115-124.	3.8	64
70	Two-dimensional speckle tracking echocardiography: standardization efforts based on synthetic ultrasound data. European Heart Journal Cardiovascular Imaging, 2016, 17, 693-701.	1.2	63
71	New aspects of the ventricular septum and its function: an echocardiographic study. Heart, 2005, 91, 1343-1348.	2.9	62
72	Detection of the whole myocardium in 2D-echocardiography for multiple orientations using a geometrically constrained level-set. Medical Image Analysis, 2012, 16, 386-401.	11.6	62

#	Article	IF	Citations
73	Mechanisms of Postsystolic Thickening in Ischemic Myocardium: Mathematical Modelling and Comparison With Experimental Ischemic Substrates. Ultrasound in Medicine and Biology, 2007, 33, 1963-1970.	1.5	61
74	Statistical Shape Modeling of the Left Ventricle: Myocardial Infarct Classification Challenge. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 503-515.	6.3	61
75	Velocities of Naturally Occurring Myocardial Shear Waves Increase With Age and in Cardiac Amyloidosis. JACC: Cardiovascular Imaging, 2019, 12, 2389-2398.	5.3	60
76	Doppler tissue velocity, strain, and strain rate imaging with transesophageal echocardiography in the operating room: A feasibility study. Journal of the American Society of Echocardiography, 2002, 15, 768-776.	2.8	58
77	One-dimensional ultrasonic strain and strain rate imaging: a new approach to the quantitation of regional myocardial function in patients with aortic stenosis. Ultrasound in Medicine and Biology, 2003, 29, 1085-1092.	1.5	58
78	Detection of Regional Myocardial Dysfunction in Patients with Acute Myocardial Infarction Using Velocity Vector Imaging. Journal of the American Society of Echocardiography, 2008, 21, 879-886.	2.8	58
79	Fast and Fully Automatic 3-D Echocardiographic Segmentation Using B-Spline Explicit Active Surfaces: Feasibility Study and Validation in a Clinical Setting. Ultrasound in Medicine and Biology, 2013, 39, 89-101.	1.5	58
80	Optical coherence tomography study of healing characteristics of paclitaxel-eluting balloons vs. everolimus-eluting stents for in-stent restenosis: the SEDUCE (Safety and Efficacy of a Drug elUting) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.2	58
81	A level set framework with a shape and motion prior for segmentation and region tracking in echocardiography. Medical Image Analysis, 2006, 10, 162-177.	11.6	57
82	Ultrasound-based radial and longitudinal strain estimation of the carotid artery: a feasibility study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2244-2251.	3.0	57
83	Longâ€Term miRâ€669a Therapy Alleviates Chronic Dilated Cardiomyopathy in Dystrophic Mice. Journal of the American Heart Association, 2013, 2, e000284.	3.7	56
84	Ultrasound speckle tracking for radial, longitudinal and circumferential strain estimation of the carotid artery â€“ An in vitro validation via sonomicrometry using clinical and high-frequency ultrasound. Ultrasonics, 2015, 56, 399-408.	3.9	56
85	Fast and Fully Automatic Left Ventricular Segmentation and Tracking in Echocardiography Using Shape-Based B-Spline Explicit Active Surfaces. IEEE Transactions on Medical Imaging, 2017, 36, 2287-2296.	8.9	56
86	Quantification of regional right and left ventricular function by ultrasonic strain rate and strain indexes in Friedreichâ€™s ataxia. American Journal of Cardiology, 2003, 91, 622-626.	1.6	55
87	Elastic Image Registration Versus Speckle Tracking for 2-D Myocardial Motion Estimation: A Direct Comparison In Vivo. IEEE Transactions on Medical Imaging, 2013, 32, 449-459.	8.9	55
88	3D Strain Assessment in Ultrasound (Straus): A Synthetic Comparison of Five Tracking Methodologies. IEEE Transactions on Medical Imaging, 2013, 32, 1632-1646.	8.9	54
89	Can regional strain and strain rate measurement be performed during both dobutamine and exercise echocardiography, and do regional deformation responses differ with different forms of stress testing?. Journal of the American Society of Echocardiography, 2003, 16, 299-308.	2.8	51
90	Quantifying myocardial deformation throughout the cardiac cycle: a comparison of ultrasound strain rate, grey-scale M-mode and magnetic resonance imaging. Ultrasound in Medicine and Biology, 2004, 30, 591-598.	1.5	51

#	Article	IF	Citations
91	Towards ultrasound cardiac image segmentation based on the radiofrequency signal. Medical Image Analysis, 2003, 7, 353-367.	11.6	49
92	Regional cardiac motion and strain estimation in three-dimensional echocardiography: a validation study in thick-walled univentricular phantoms. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 668-682.	3.0	47
93	Natural Shear Wave Imaging in the Human Heart: Normal Values, Feasibility, and Reproducibility. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 442-452.	3.0	47
94	The Generalized Contrast-to-Noise Ratio. , 2018, , .		46
95	Comparison of real-time tri-plane and conventional 2D dobutamine stress echocardiography for the assessment of coronary artery disease. European Heart Journal, 2006, 27, 1719-1724.	2.2	45
96	Impact of Hypertension on Ventricular-Arterial Coupling and Regional Myocardial Work at Rest and during Isometric Exercise. Journal of the American Society of Echocardiography, 2012, 25, 882-890.	2.8	45
97	Changes in systolic and postsystolic wall thickening during acute coronary occlusion and reperfusion in closed-chest pigs: Implications for the assessment of regional myocardial function. Journal of the American Society of Echocardiography, 2001, 14, 691-697.	2.8	43
98	Absence of thrombospondin-2 increases cardiomyocyte damage and matrix disruption in doxorubicin-induced cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2011, 51, 318-328.	1.9	43
99	The Evaluation of Pulmonary Hypertension Using Right Ventricular Myocardial Isovolumic Relaxation Time. Journal of the American Society of Echocardiography, 2005, 18, 1113-1120.	2.8	42
100	Diverging Wave Volumetric Imaging Using Subaperture Beamforming. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2114-2124.	3.0	42
101	A Dual-Chamber, Thick-Walled Cardiac Phantom for Use inÂCardiac Motion and Deformation Imaging by Ultrasound. Ultrasound in Medicine and Biology, 2010, 36, 1145-1156.	1.5	39
102	High Frame Rate Myocardial Integrated Backscatter. Does this Change our Understanding of this Acoustic Parameter?. European Journal of Echocardiography, 2000, 1, 32-41.	2.3	37
103	How to optimize intracardiac blood flow tracking by echocardiographic particle image velocimetry? Exploring the influence of data acquisition using computer-generated data sets. European Heart Journal Cardiovascular Imaging, 2012, 13, 490-499.	1.2	37
104	Association Between Myocardial Mechanics and Ischemic LV Remodeling. JACC: Cardiovascular Imaging, 2015, 8, 1430-1443.	5.3	37
105	Ultrasound Speckle Tracking Strain Estimation of inÂVivo Carotid Artery Plaque with inÂVitro Sonomicrometry Validation. Ultrasound in Medicine and Biology, 2015, 41, 77-88.	1.5	37
106	Evaluation of tissue displacement and regional strain in the Achilles tendon using quantitative high-frequency ultrasound. PLoS ONE, 2017, 12, e0181364.	2.5	36
107	Late post-repair ventricular function in patients with origin of the left main coronary artery from the pulmonary trunk. American Journal of Cardiology, 2004, 93, 506-508.	1.6	35
108	Longitudinal Changes in LV Structure and Diastolic Function in Relation to Arterial Properties in GeneralÂPopulation. JACC: Cardiovascular Imaging, 2017, 10, 1307-1316.	5.3	35

#	Article	IF	Citations
109	Left ventricular function in relation to chronic residential air pollution in a general population. European Journal of Preventive Cardiology, 2017, 24, 1416-1428.	1.8	35
110	A Comparison of Coherence-Based Beamforming Techniques in High-Frame-Rate Ultrasound Imaging With Multi-Line Transmission. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 329-340.	3.0	34
111	Influence of left-ventricular shape on passive filling properties and end-diastolic fiber stress and strain. Journal of Biomechanics, 2010, 43, 1745-1753.	2.1	33
112	Delay and Standard Deviation Beamforming to Enhance Specular Reflections in Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2057-2068.	3.0	33
113	Wide-Angle Tissue Doppler Imaging at High Frame Rate Using Multi-Line Transmit Beamforming: An Experimental Validation In Vivo. IEEE Transactions on Medical Imaging, 2016, 35, 521-528.	8.9	33
114	Realistic Vendor-Specific Synthetic Ultrasound Data for Quality Assurance of 2-D Speckle Tracking Echocardiography: Simulation Pipeline and Open Access Database. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 411-422.	3.0	33
115	Assessment of strain and strain rate by two-dimensional speckle tracking in mice: comparison with tissue Doppler echocardiography and conductance catheter measurements. European Heart Journal Cardiovascular Imaging, 2013, 14, 765-773.	1.2	32
116	The calculation of the transient near and far field of a baffled piston using low sampling frequencies. Journal of the Acoustical Society of America, 1997, 102, 78-86.	1.1	31
117	Fully automatic three-dimensional visualization of intravascular optical coherence tomography images: methods and feasibility in vivo. Biomedical Optics Express, 2012, 3, 3291.	2.9	31
118	Threeâ€Ðimensional Echocardiography in the Evaluation of Global and Regional Function in Patients with Recent Myocardial Infarction: A Comparison with Magnetic Resonance Imaging. Echocardiography, 2013, 30, 682-692.	0.9	31
119	A Framework for the Generation of Realistic Synthetic Cardiac Ultrasound and Magnetic Resonance Imaging Sequences From the Same Virtual Patients. IEEE Transactions on Medical Imaging, 2018, 37, 741-754.	8.9	31
120	Strain rate imaging after dynamic stress provides objective evidence of persistent regional myocardial dysfunction in ischaemic myocardium: regional stunning identified?. Heart, 2005, 91, 152-160.	2.9	30
121	Elastic Image Registration to Quantify 3-D Regional Myocardial Deformation from Volumetric Ultrasound: Experimental Validation in an Animal Model. Ultrasound in Medicine and Biology, 2013, 39, 1688-1697.	1.5	30
122	Machine learning of the spatio-temporal characteristics of echocardiographic deformation curves for infarct classification. International Journal of Cardiovascular Imaging, 2017, 33, 1159-1167.	1.5	30
123	Quantitation of left-ventricular asynergy by cardiac ultrasound. American Journal of Cardiology, 2000, 86, 4-9.	1.6	29
124	Doppler myocardial imaging in adult male rats: Reference values and reproducibility of velocity and deformation parameters. European Journal of Echocardiography, 2006, 7, 411-417.	2.3	29
125	Doppler myocardial imaging in the diagnosis of early systolic left ventricular dysfunction in diabetic rats. European Journal of Echocardiography, 2008, 9, 326-333.	2.3	29
126	A spectroscopic study of the chromatic properties of GafChromicâ„¢EBT3 films. Medical Physics, 2016, 43, 1156-1166.	3.0	29

#	Article	IF	Citations
127	Doppler indexes of left ventricular systolic and diastolic function in relation to the arterial stiffness in a general population. Journal of Hypertension, 2016, 34, 762-771.	0.5	28
128	High-Frame-Rate Tri-Plane Echocardiography With Spiral Arrays: From Simulation to Real-Time Implementation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 57-69.	3.0	28
129	Tissue Doppler Echocardiography. Echocardiography, 1999, 16, 509-520.	0.9	27
130	Ultrasonic strain/strain rate imagingâ€"a new clinical tool to evaluate the transplanted heart. European Journal of Echocardiography, 2005, 6, 186-195.	2.3	26
131	Comparison of a new methodology for the assessment of 3D myocardial strain from volumetric ultrasound with 2D speckle tracking. International Journal of Cardiovascular Imaging, 2012, 28, 1049-1060.	1.5	26
132	Statistics of the radio-frequency signal based on K distribution with application to echocardiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1689-1694.	3.0	25
133	Increased Cardiac Myocyte PDE5 Levels in Human and Murine Pressure Overload Hypertrophy Contribute to Adverse LV Remodeling. PLoS ONE, 2013, 8, e58841.	2.5	25
134	Anatomical Image Registration Using Volume Conservation to Assess Cardiac Deformation From 3D Ultrasound Recordings. IEEE Transactions on Medical Imaging, 2016, 35, 501-511.	8.9	24
135	Automatic 3D aortic annulus sizing by computed tomography in the planning of transcatheter aortic valve implantation. Journal of Cardiovascular Computed Tomography, 2017, 11, 25-32.	1.3	24
136	Multiline Transmit Beamforming Combined With Adaptive Apodization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 535-545.	3.0	24
137	MITT: Medical Image Tracking Toolbox. IEEE Transactions on Medical Imaging, 2018, 37, 2547-2557.	8.9	24
138	Enabling Ultrasound In-Body Communication: FIR Channel Models and QAM Experiments. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 135-144.	4.0	24
139	Automatic assessment of stent neointimal coverage by intravascular optical coherence tomography. European Heart Journal Cardiovascular Imaging, 2014, 15, 195-200.	1.2	23
140	Interplay of cardiac remodelling and myocardial stiffness in hypertensive heart disease: a shear wave imaging study using high-frame rate echocardiography. European Heart Journal Cardiovascular Imaging, 2020, 21, 664-672.	1.2	23
141	Automatic three-dimensional registration of intravascular optical coherence tomography images. Journal of Biomedical Optics, 2012, 17, 026005.	2.6	22
142	Determining optimal noninvasive parameters for the prediction of left ventricular remodeling in chronic ischemic patients. Scandinavian Cardiovascular Journal, 2013, 47, 329-334.	1.2	22
143	Automatic characterization of neointimal tissue by intravascular optical coherence tomography. Journal of Biomedical Optics, 2013, 19, 021104.	2.6	22
144	Shear Wave Elastography Using High-Frame-Rate Imaging in the Follow-Up of Heart Transplantation Recipients. JACC: Cardiovascular Imaging, 2020, 13, 2304-2313.	5.3	22

#	Article	IF	Citations
145	Assessing cardiac stiffness using ultrasound shear wave elastography. Physics in Medicine and Biology, 2022, 67, 02TR01.	3.0	22
146	Development of a patientâ€specific atrial phantom model for planning and training of interâ€atrial interventions. Medical Physics, 2017, 44, 5638-5649.	3.0	21
147	Real-Time High-Frame-Rate Cardiac B-Mode and Tissue Doppler Imaging Based on Multiline Transmission and Multiline Acquisition. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2030-2041.	3.0	21
148	Myocardial deformation abnormalities in paediatric hypertrophic cardiomyopathy: are all aetiologies identical?. European Journal of Echocardiography, 2008, 9, 784-790.	2.3	20
149	Fast left ventricle tracking using localized anatomical affine optical flow. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2871.	2.1	20
150	Real-time ultrasound simulation using the GPU. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 885-892.	3.0	19
151	Quantification of left ventricular volume and global function using a fast automated segmentation tool: validation in a clinical setting. International Journal of Cardiovascular Imaging, 2013, 29, 309-316.	1.5	19
152	Fast myocardial motion and strain estimation in 3D cardiac ultrasound with Sparse Demons. , 2013, , .		19
153	A Comparison of the Performance of Different Multiline Transmit Setups for Fast Volumetric Cardiac Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2082-2091.	3.0	19
154	Left Ventricular Myocardial Segmentation in 3-D Ultrasound Recordings: Effect of Different Endocardial and Epicardial Coupling Strategies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 525-536.	3.0	19
155	Automatic segmentation method of pelvic floor levator hiatus in ultrasound using a self-normalizing neural network. Journal of Medical Imaging, 2018, 5, 1.	1.5	19
156	STACCATO (Assessment of Stent sTrut Apposition and Coverage in Coronary ArTeries with Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 EuroIntervention, 2016, 11, e1619-e1626.	3.2	19
157	Evaluation of transmural myocardial deformation and reflectivity characteristics. , 0, , .		17
158	Fast and accurate specimen-specific simulation of trabecular bone elastic modulus using novel beamâ€“shell finite element models. Journal of Biomechanics, 2011, 44, 1566-1572.	2.1	17
159	Comparison of the performance of different tools for fast simulation of ultrasound data. Ultrasonics, 2012, 52, 573-577.	3.9	17
160	Does rosiglitazone affect adiposity and cardiac function in genetic diabetic mice?. European Journal of Pharmacology, 2013, 700, 23-31.	3.5	17
161	Whole myocardium tracking in 2D-echocardiography in multiple orientations using a motion constrained level-set. Medical Image Analysis, 2014, 18, 500-514.	11.6	17
162	Real-time 3D interactive segmentation of echocardiographic data through user-based deformation of B-spline explicit active surfaces. Computerized Medical Imaging and Graphics, 2014, 38, 57-67.	5.8	17

#	Article	IF	Citations
163	Speckle tracking echocardiography in fetuses diagnosed with congenital diaphragmatic hernia. Prenatal Diagnosis, 2014, 34, 1262-1267.	2.3	17
164	2-D Left Ventricular Flow Estimation by Combining Speckle Tracking With Navierâ€“Stokes-Based Regularization: An In Silico, In Vitro and In Vivo Study. Ultrasound in Medicine and Biology, 2015, 41, 99-113.	1.5	17
165	Ultrasound Imaging From Sparse RF Samples Using System Point Spread Functions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 316-326.	3.0	17
166	Validation of a Novel Software Tool for Automatic Aortic Annular Sizing in Three-Dimensional Transesophageal Echocardiographic Images. Journal of the American Society of Echocardiography, 2018, 31, 515-525.e5.	2.8	17
167	Phase Change Ultrasound Contrast Agents with a Photopolymerized Diacetylene Shell. Langmuir, 2019, 35, 10116-10127.	3.5	17
168	Non-invasive characterization of the area-at-risk using magnetic resonance imaging in chronic ischaemia. Cardiovascular Research, 2011, 89, 166-174.	3.8	16
169	Association of digital vascular function with cardiovascular risk factors: a population study. BMJ Open, 2014, 4, e004399.	1.9	16
170	HD-PULSE: High channel Density Programmable ULtrasound System based on consumer Electronics. , 2015, , .		16
171	Three-dimensional analysis of implanted magnetic-resonance-visible meshes. International Urogynecology Journal, 2015, 26, 1459-1465.	1.4	16
172	Strain assessment in the carotid artery wall using ultrasound speckle tracking: validation in a sheep model. Physics in Medicine and Biology, 2015, 60, 1107-1123.	3.0	16
173	Acoustic output of multi-line transmit beamforming for fast cardiac imaging: a simulation study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1320-1330.	3.0	16
174	Semi-automatic outlining of levator hiatus. Ultrasound in Obstetrics and Gynecology, 2016, 48, 98-105.	1.7	16
175	Aortic Valve Tract Segmentation From 3D-TEE Using Shape-Based B-Spline Explicit Active Surfaces. IEEE Transactions on Medical Imaging, 2016, 35, 2015-2025.	8.9	16
176	A competitive strategy for atrial and aortic tract segmentation based on deformable models. Medical Image Analysis, 2017, 42, 102-116.	11.6	16
177	Temporal Diffeomorphic Free-Form Deformation for Strain Quantification in 3D-US Images. Lecture Notes in Computer Science, 2010, 13, 1-8.	1.3	16
178	Processing radio frequency ultrasound images: a robust method for local spectral features estimation by a spatially constrained parametric approach. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1704-1719.	3.0	15
179	Healing responses after bifurcation stenting with the dedicated TRYTON sideâ€branch stentâ„¢ in combination with XIENCEâ€Vâ„¢ stents: A clinical, angiography, fractional flow reserve, and optical coherence tomography study: The PYTON (Prospective evaluation of the TRYTON sideâ€branch stentâ„¢) Tj ETQq1 1 0.784314 rgBT /Ov Catheterization and Cardiovascular Interventions, 2013, 81, E155-64.		15
180	Feasibility of Multiplane-Transmit Beamforming for Real-Time Volumetric Cardiac Imaging: A Simulation Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 648-659.	3.0	15

#	Article	IF	Citations
181	Cardiac Troponin T Concentrations, Reversible Myocardial Ischemia, and Indices of Left Ventricular Remodeling in Patients with Suspected Stable Angina Pectoris: a DOPPLER-CIP Substudy. Clinical Chemistry, 2018, 64, 1370-1379.	3.2	15
182	Different deformation patterns in intracardiac tumors. European Journal of Echocardiography, 2005, 6, 461-464.	2.3	14
183	The correlation between the SOS in trabecular bone and stiffness and density studied by finite-element analysis. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1234-1242.	3.0	14
184	The Slope of the Segmental Stretch-Strain Relationship as a Noninvasive Index of LV Inotropy. JACC: Cardiovascular Imaging, 2013, 6, 419-428.	5.3	14
185	COmplex coronary Bifurcation lesions: RAndomized comparison of a strategy using a dedicated self-expanding biolimus-eluting stent versus a culotte strategy using everolimus-eluting stents: primary results of the COBRA trial. EuroIntervention, 2016, 11, 1457-1467.	3.2	14
186	Multi-centre validation of an automatic algorithm for fast 4D myocardial segmentation in cine CMR datasets. European Heart Journal Cardiovascular Imaging, 2016, 17, 1118-1127.	1.2	14
187	Fast Segmentation of the Left Atrial Appendage in 3-D Transesophageal Echocardiographic Images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2332-2342.	3.0	14
188	A Novel 2-D Speckle Tracking Method for High-Frame-Rate Echocardiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1764-1775.	3.0	14
189	The Feasibility of Ultrasonic Regional Strain and Strain Rate Imaging in Quantifying Dobutamine Stress Echocardiography. European Journal of Echocardiography, 2003, 4, 81-91.	2.3	14
190	Robustness of integrated backscatter for myocardial tissue characterization. Ultrasound in Medicine and Biology, 1999, 25, 95-103.	1.5	12
191	Tangential sound field oscillations for 2D motion estimation in echocardiography. , 2009, , .		12
192	Three-Dimensional Cardiac Motion Estimation Based on Non-rigid Image Registration Using a Novel Transformation Model Adapted to the Heart. Lecture Notes in Computer Science, 2013, , 142-150.	1.3	12
193	Doppler-Based Motion Compensation Strategies for 3-D Diverging Wave Compounding and Multiplane-Transmit Beamforming: A Simulation Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1631-1642.	3.0	12
194	Statistical Modeling of the Radio-Frequency Signal for Partially- and Fully-Developed Speckle Based on a Generalized Gaussian Model with Application to Echocardiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2189-2194.	3.0	11
195	The quantification of dipyridamole induced changes in regional deformation in normal, stunned or infarcted myocardium as measured by strain and strain rate: an experimental study. International Journal of Cardiovascular Imaging, 2008, 24, 365-376.	1.5	11
196	Influence of Heart Rate Reduction on Doppler Myocardial Imaging Parameters in a Small Animal Model. Ultrasound in Medicine and Biology, 2009, 35, 30-35.	1.5	11
197	Geometric Regularization for 2-D Myocardial Strain Quantification in Mice: An In-Silico Study. Ultrasound in Medicine and Biology, 2010, 36, 1157-1168.	1.5	11
198	Automated detection and quantification of clusters of malapposed and uncovered intracoronary stent struts assessed with optical coherence tomography. International Journal of Cardiovascular Imaging, 2014, 30, 839-48.	1.5	11

#	Article	IF	Citations
199	Coded Excitation for Crosstalk Suppression in Multi-line Transmit Beamforming: Simulation Study and Experimental Validation. Applied Sciences (Switzerland), 2019, 9, 486.	2.5	11
200	Cardiac Motion and Deformation Estimation from Tagged MRI Sequences Using a Temporal Coherent Image Registration Framework. Lecture Notes in Computer Science, 2013, , 316-324.	1.3	11
201	Echocardiographic assessment of left ventricular untwist rate: comparison of tissue Doppler and speckle tracking methodologies. European Journal of Echocardiography, 2009, 10, 683-690.	2.3	10
202	Closed-chest animal model of chronic coronary artery stenosis. Assessment with magnetic resonance imaging. International Journal of Cardiovascular Imaging, 2010, 26, 299-308.	1.5	10
203	Strain rate imaging: fundamental principles and progress so far. Imaging in Medicine, 2010, 2, 547-563.	0.0	10
204	Standardized Delineation of Endocardial Boundaries in Three-Dimensional Left VentricularÂEchocardiograms. Journal of the American Society of Echocardiography, 2017, 30, 1059-1069.	2.8	10
205	The challenges of measuring in vivo knee collateral ligament strains using ultrasound. Journal of Biomechanics, 2017, 61, 258-262.	2.1	10
206	2-D Myocardial Deformation Imaging Based on RF-Based Nonrigid Image Registration. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1037-1047.	3.0	10
207	Assessment of aortic valve tract dynamics using automatic tracking of 3D transesophageal echocardiographic images. International Journal of Cardiovascular Imaging, 2019, 35, 881-895.	1.5	10
208	In Vivo Comparison of Multiline Transmission and Diverging Wave Imaging for High-Frame-Rate Speckle-Tracking Echocardiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1511-1520.	3.0	10
209	Nonlinear propagation effects on broadband attenuation measurements and its implications for ultrasonic tissue characterization. Journal of the Acoustical Society of America, 1999, 106, 1126-1133.	1.1	9
210	SPEQLE (Software package for echocardiographic quantification LEuven) an integrated approach to ultrasound-based cardiac deformation quantification. , 0, , .		9
211	Evaluation of contractile function and inotropic reserve with tissue velocity, strain and strain rate imaging in streptozotocin-induced diabetes. European Journal of Echocardiography, 2010, 11, 622-629.	2.3	9
212	Ultrasound-based Speckle Tracking for 3D Strain estimation of the Arterial wall — An experimental validation study in a tissue mimicking phantom. , 2011, , .		9
213	Fast Left Ventricle Tracking in 3D Echocardiographic Data Using Anatomical Affine Optical Flow. Lecture Notes in Computer Science, 2013, , 191-199.	1.3	9
214	Fast three-dimensional ultrasound cardiac imaging using multi-transmit beam forming: A simulation study. , 2013, , .		9
215	Attenuation estimation by repeatedly solving the forward scattering problem. Ultrasonics, 2018, 84, 201-209.	3.9	9
216	Learning About Machine Learning to Create a Self-Driving Echocardiographic Laboratory. Circulation, 2018, 138, 1636-1638.	1.6	9

#	Article	IF	Citations
217	Semiautomatic Estimation of Device Size for Left Atrial Appendage Occlusion in 3-D TEE Images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 922-929.	3.0	9
218	Kidney Segmentation in 3-D Ultrasound Images Using a Fast Phase-Based Approach. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1521-1531.	3.0	9
219	Spatiotemporal Distribution of Nanodroplet Vaporization in a Proton Beam Using Real-Time Ultrasound Imaging for Range Verification. Ultrasound in Medicine and Biology, 2022, 48, 149-156.	1.5	9
220	Quantitative Assessment of Intrinsic Regional Myocardial Deformation by Doppler Strain Rate Echocardiography in Humans. Circulation, 2003, 107, e49; author reply e49.	1.6	8
221	Algorithms for ultrasound elastography: a survey. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 283-292.	1.6	8
222	Multi transmit beams for fast cardiac imaging towards clinical routine. , 2016, , .		8
223	Novel Solutions Applied in Transseptal Puncture: A Systematic Review. Journal of Medical Devices, Transactions of the ASME, 2017, 11, .	0.7	8
224	Temperature dependence of speed of sound and attenuation of porcine left ventricular myocardium. Ultrasonics, 2018, 82, 246-251.	3.9	8
225	Area of the pressure-strain loop during ejection as non-invasive index of left ventricular performance: a population study. Cardiovascular Ultrasound, 2019, 17, 15.	1.6	8
226	Calculation of strain values from strain rate curves: how should this be done?. , 0, , .		7
227	Ultrasound-based 2D strain estimation of the carotid artery: an in-silico feasibility study. , 2009, , .		7
228	Tissue Doppler indexes of left ventricular systolic function in relation to the pulsatile and steady components of blood pressure in a general population. Journal of Hypertension, 2012, 30, 403-410.	0.5	7
229	3D Tendon Strain Estimation Using High-frequency Volumetric Ultrasound Images: A Feasibility Study. Ultrasonic Imaging, 2018, 40, 67-83.	2.6	7
230	Concepts and applications of ultrafast cardiac ultrasound imaging. Echocardiography, 2021, 38, 7-15.	0.9	7
231	Validated Ultrasound Speckle Tracking Method for Measuring Strains of Knee Collateral Ligaments In-Situ during Varus/Valgus Loading. Sensors, 2021, 21, 1895.	3.8	7
232	Are Changes in Myocardial Integrated Backscatter Restricted to the Ischemic Zone in Acute Induced Ischemia? An In Vivo Animal Study. Journal of the American Society of Echocardiography, 2000, 13, 306-315.	2.8	6
233	Is there a change in myocardial nonlinearity during the cardiac cycle?. Ultrasound in Medicine and Biology, 2001, 27, 389-398.	1.5	6
234	A virtual environment for the evaluation, validation and optimization of strain and strain rate imaging. , 0, , .		6

#	Article	IF	Citations
235	Three-dimensional cardiac motion and strain estimation: A validation study in thick-walled univentricular phantoms. , 2010, , .		6
236	Assessment of peripheral vascular function with photoplethysmographic pulse amplitude. Artery Research, 2011, 5, 58.	0.6	6
237	Multi-transmit beam forming for fast cardiac imaging. , 2011, , .		6
238	Plane wave imaging for cardiac motion estimation at high temporal resolution: A feasibility study in-vivo. , 2012, , .		6
239	Fetal Echocardiography and Pulsed-wave Doppler Ultrasound in a Rabbit Model of Intrauterine Growth Restriction. Journal of Visualized Experiments, 2013, , .	0.3	6
240	2D localization of specular reflections using ultrasound. , 2014, , .		6
241	Generation of ultra-realistic synthetic echocardiographic sequences to facilitate standardization of deformation imaging. , 2015, , .		6
242	Dense motion field estimation from myocardial boundary displacements. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02758.	2.1	6
243	In-vivo validation of a new clinical tool to quantify three-dimensional myocardial strain using ultrasound. International Journal of Cardiovascular Imaging, 2016, 32, 1707-1714.	1.5	6
244	High variability in strain estimation errors when using a commercial ultrasound speckle tracking algorithm on tendon tissue. Acta Radiologica, 2016, 57, 1223-1229.	1.1	6
245	Ultrasonic strain and strain rate imaging for the assessment of regional myocardial function in mice. , 0, , .		5
246	P5C-2 A New Convolution-Based Methodology to Simulate Ultrasound Images in a 2D / 3D Sector Format. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	5
247	Full or pressure limited reperfusion of an acute myocardial infarct results in a different wall thickness and deformation of the distal myocardium â€“ Implications for clinical reperfusion strategies. European Journal of Echocardiography, 2007, 9, 458-65.	2.3	5
248	Fast and fully automatic 3D echocardiographic segmentation using B-spline explicit active surfaces. , 2012, , .		5
249	Fast Fully Automatic Segmentation of the Myocardium in 2D Cine MR Images. Lecture Notes in Computer Science, 2013, , 71-79.	1.3	5
250	Fusion of 3D echo and cardiac magnetic resonance volumes during live scanning. , 2013, , .		5
251	Left Ventricular Radial Function Associated With Genetic Variation in the cGMP-Dependent Protein Kinase. Hypertension, 2013, 62, 1034-1039.	2.7	5
252	A GPU-based implementation of the spatial impulse response method for fast calculation of linear sound fields and pulse-echo responses of array transducers. , 2013, , .		5

#	Article	IF	Citations
253	Safety of fast cardiac imaging using multiple transmit beams: Experimental verification. , 2014, , .		5
254	Consistent Regional Heterogeneity of Passive Diastolic Stretch and Systolic Deformation in the Healthy Heart: Age-Related Changes in Left Ventricle Contractility. Ultrasound in Medicine and Biology, 2014, 40, 37-44.	1.5	5
255	Improved Myocardial Motion Estimation Combining Tissue Doppler and B-Mode Echocardiographic Images. IEEE Transactions on Medical Imaging, 2014, 33, 2098-2106.	8.9	5
256	Left atrial volumetric assessment using a novel automated framework for 3D echocardiography: a multi-centre analysis. European Heart Journal Cardiovascular Imaging, 2017, 18, 1008-1015.	1.2	5
257	Serial assessment of left ventricular morphology and function in a rodent model of ischemic cardiomyopathy. International Journal of Cardiovascular Imaging, 2018, 34, 385-397.	1.5	5
258	High-Frame-Rate Color Doppler Echocardiography: A Quantitative Comparison of Different Approaches. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 923-933.	3.0	5
259	Feasibility and Accuracy of Automated Three-Dimensional Echocardiographic Analysis of Left Atrial Appendage for Transcatheter Closure. Journal of the American Society of Echocardiography, 2021, , .	2.8	5
260	Influence of the Grid Topology of Free-Form Deformation Models on the Performance of 3D Strain Estimation in Echocardiography. Lecture Notes in Computer Science, 2013, , 308-315.	1.3	5
261	Spatially Variant Ultrasound Attenuation Mapping Using a Regularized Linear Least-Squares Approach. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1596-1609.	3.0	5
262	2H-2 Gradients in Radial Strain Across the Cardiac Wall Studied with Epicardial Ultrasound. , 2006, , .		4
263	P4F-3 Comparing Optimization Algorithms for the Young's Modulus Reconstruction in Ultrasound Elastography. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	4
264	Level-set segmentation of myocardium and epicardium in ultrasound images using localized Bhattacharyya distance. , 2009, , .		4
265	Left ventricular 2D flow pattern estimation by combining speckle tracking with Navier-Stokes-based regularization in an iterative way. , 2011, , .		4
266	Shear wave elastography for characterization of carotid artery plaques - A feasibility study in an experimental setup. , 2012, , .		4
267	A GPU level-set segmentation framework for 3D Echocardiography. , 2012, , .		4
268	B-spline explicit active tracking of surfaces (BEATS): Application to real-time 3D segmentation and tracking of the left ventricle in 3D echocardiography. , 2012, , .		4
269	Transmural strain distribution across the cardiac wall and its dependency on measurement site. , 2012, , .		4
270	Motion and deformation estimation of cardiac ultrasound sequences using an anatomical B-spline transformation model. , 2012, , .		4

#	Article	IF	Citations
271	In regard to: â€œIn vivo strain analysis of the intact supraspinatus tendon by ultrasound speckles tracking imagingâ€•(Journal of Orthopaedic Research, Vol. 29, No. 12, pp. 1931â€“1937, May 2011). Journal of Orthopaedic Research, 2012, 30, 2054-2056.	2.3	4
272	Speckle tracking strain estimation of a carotid artery plaque phantom - Validation via sonomicrometry. , 2013, , .		4
273	3D Intra-cardiac flow estimation using speckle tracking: A feasibility study in synthetic ultrasound data. , 2013, , .		4
274	Generation of ultra-realistic synthetic echocardiographic sequences. , 2014, , .		4
275	RF-based motion estimation using non-rigid image registration techniques: In-silico and in-vivo feasibility. , 2014, , .		4
276	Automatic short axis orientation of the left ventricle in 3D ultrasound recordings. , 2016, , .		4
277	Handling missing strain (rate) curves using K-nearest neighbor imputation. , 2016, , .		4
278	Evaluation of the Transverse Oscillation Technique for Cardiac Phased Array Imaging: A Theoretical Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 320-334.	3.0	4
279	Comparison of in vivo vs. ex situ obtained material properties of sheep common carotid artery. Medical Engineering and Physics, 2018, 55, 16-24.	1.7	4
280	Doppler indexes of left ventricular systolic and diastolic function in relation to haemodynamic load components in a general population. Journal of Hypertension, 2018, 36, 867-875.	0.5	4
281	Orthogonal Frequency Division Multiplexing Combined with Multi Line Transmission for Ultrafast Ultrasound Imaging: Experimental Findings. , 2018, , .		4
282	Fully Automatic Assessment of Mitral Valve Morphology from 3D Transthoracic Echocardiography. , 2018, , .		4
283	Evaluation of Coherence-Based Beamforming for B-Mode and Speckle Tracking Echocardiography. , 2018, , .		4
284	Compressed Ultrasound Signal Reconstruction Using a Low-Rank and Joint-Sparse Representation Model. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1232-1245.	3.0	4
285	Clutter Filtering Using a 3D Deep Convolutional Neural Network. , 2019, , .		4
286	Extracting neuronal activity signals from microscopy recordings of contractile tissue using B-spline Explicit Active Surfaces (BEAS) cell tracking. Scientific Reports, 2021, 11, 10937.	3.3	4
287	A $128imes 1$ Phased Array Piezoelectric Micromachined Ultrasound Transducer (pMUT) for Medical Imaging. , 2021, , .		4
288	Computational and Physical Phantom Setups for the Second Cardiac Motion Analysis Challenge (cMAC2). Lecture Notes in Computer Science, 2013, , 125-133.	1.3	4

#	Article	IF	Citations
289	A linear least squares based estimation of spatial variation of the attenuation coefficient from ultrasound backscatter signals. Proceedings of Meetings on Acoustics, 2019, , .	0.3	4
290	High-Frame-Rate Speckle Tracking for Echocardiographic Stress Testing. Ultrasound in Medicine and Biology, 2022, 48, 1644-1651.	1.5	4
291	Software package for echocardiographic quantification: Leuven (SPEQLE). , 0, , .		3
292	Estimation of active myocardial force development: a feasibility study in a potentially clinical setting. , 0, , .		3
293	A comparison between methods for automatic quantification of global left ventricular function. , 2009, , .		3
294	An in-vivo study on the difference between principal and cardiac strains. , 2009, , .		3
295	Coupled B-spline active geometric functions for myocardial segmentation: A localized region-based approach. , 2010, , .		3
296	Multi-modal cardiac image fusion and visualization on the GPU. , 2011, , .		3
297	Three-dimensional myocardial strain estimation from volumetric ultrasound: Experimental validation in an animal model. , 2011, , .		3
298	Fusion of 3D echocardiographic and cardiac magnetic resonance volumes. , 2012, , .		3
299	Provisional side branch stenting: presentation of an automated method allowing online 3D OCT guidance. European Heart Journal Cardiovascular Imaging, 2013, 14, 715-715.	1.2	3
300	Multiview myocardial tracking in echocardiographic 2D sequences using shape and motion constrained level-set. , 2013, , .		3
301	Elastic registration vs. block matching for quantification of cardiac function with 3D ultrasound: Initial results of a direct comparison in silico based on a new evaluation pipeline. , 2014, , .		3
302	Fast volumetric cardiac ultrasound: A comparison of different multi-line transmit setups by computer simulation. , 2014, , .		3
303	A new analytic expression for fast calculation of the transient near and far field of a rectangular baffled piston. Ultrasonics, 2014, 54, 1071-1077.	3.9	3
304	Tracking quality in plane-wave versus conventional cardiac ultrasound: A preliminary evaluation in-silico based on a state-of-the-art simulation pipeline. , 2015, , .		3
305	Fast left ventricle tracking in CMR images using localized anatomical affine optical flow. , 2015, , .		3
306	Principal Component Analysis for the Classification of Cardiac Motion Abnormalities Based on Echocardiographic Strain and Strain Rate Imaging. Lecture Notes in Computer Science, 2015, , 83-90.	1.3	3

#	Article	IF	Citations
307	Fast myocardial strain estimation from 3D ultrasound through elastic image registration with analytic regularization. , 2016, , .		3
308	2D RF-based non-rigid image registration for cardiac motion estimation: Comparison against block matching. , 2016, , .		3
309	Kidney segmentation in 3D CT images using B-Spline Explicit Active Surfaces. , 2016, , .		3
310	Spatiotemporal registration of multiple three-dimensional echocardiographic recordings for enhanced field of view imaging. Journal of Medical Imaging, 2016, 3, 1.	1.5	3
311	Image-based temporal alignment of echocardiographic sequences. Proceedings of SPIE, 2016, , .	0.8	3
312	Integration of Multi-Plane Tissue Doppler and B-Mode Echocardiographic Images for Left Ventricular Motion Estimation. IEEE Transactions on Medical Imaging, 2016, 35, 89-97.	8.9	3
313	Extension of the angular spectrum method to model the pressure field of a cylindrically curved array transducer. Journal of the Acoustical Society of America, 2017, 141, EL262-EL266.	1.1	3
314	Volumetric imaging of fast mechanical waves in the heart using a clinical ultrasound system. , 2017, , .		3
315	Segmentation of kidney and renal collecting system on 3D computed tomography images. , 2018, , .		3
316	Non-rigid image registration using a modified fuzzy feature-based inference system for 3D cardiac motion estimation. Computer Methods and Programs in Biomedicine, 2021, 205, 106085.	4.7	3
317	Automatic C-Plane Detection in Pelvic Floor Transperineal Volumetric Ultrasound. Lecture Notes in Computer Science, 2020, , 136-145.	1.3	3
318	Design of a sparse ellipsoidal array for volumetric ultrasound imaging of the prostate. , 2020, , .		3
319	Transmural Wave Speed Gradient May Distinguish Intrinsic Myocardial Stiffening From Preload-Induced Changes in Operational Stiffness in Shear Wave Elastography. IEEE Transactions on Biomedical Engineering, 2023, 70, 259-270.	4.2	3
320	A new method for two-dimensional myocardial strain estimation by ultrasound: an in-vivo comparison with sonomicrometry. , 0, , .		2
321	Parametric study of the peak negative acoustic pressure distribution within the image plane of a phased array transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 1092-1102.	3.0	2
322	A parametric study on processing parameters for two-dimensional cardiac strain estimation: an in-vivo study. , 0, , .		2
323	P4A-5 3D Cardiac Strain Estimation Using Spatio-Temporal Elastic Registration: In Silico Validation. , 2007, , .		2
324	Spatiotemporal non-rigid image registration for 3D ultrasound cardiac motion estimation. , 2007, , .		2

#	Article	IF	Citations
325	3D cardiac strain estimation using spatio-temporal elastic registration: In-vivo application. , 2008, , .		2
326	Estimation of 3D cardiac deformation using spatio-temporal elastic registration of non-scanconverted ultrasound data. , 2008, , .		2
327	A simulation setup to optimize particle flow velocimetry. , 2009, , .		2
328	3D motion and strain estimation of the heart: initial clinical findings. Proceedings of SPIE, 2010, , .	0.8	2
329	In-vivo assessment of radial and longitudinal strain in the carotid artery using speckle tracking. , 2010, , .		2
330	Transmural myocardial strain distribution measured at high spatial and temporal resolution. , 2011, , .		2
331	Fast 3D echocardiographic segmentation using B-Spline Explicit Active Surfaces: A validation study in a clinical setting. , 2011, , .		2
332	Tendon strain imaging using non-rigid image registration: a validation study. , 2012, , .		2
333	Unleashing the power of echocardiography: can we get closer to maximally exploiting all embedded information from the image?. European Heart Journal Cardiovascular Imaging, 2012, 13, 450-452.	1.2	2
334	2D myocardial strain assessment in the mouse: A comparison between a synthetic lateral phase approach and block-matching using computer simulation. Ultrasonics, 2012, 52, 936-942.	3.9	2
335	2-D Strain Assessment in the Mouse Through Spatial Compounding of Myocardial Velocity Data: InÂVivo Feasibility. Ultrasound in Medicine and Biology, 2013, 39, 1848-1860.	1.5	2
336	Hybrid energy approach for real-time b-spline explicit active tracking of surfaces (heartBEATS). , 2013, , .		2
337	Safety of Multi-Line Transmit beam forming for fast cardiac imaging - a simulation study. , 2014, , .		2
338	Iterative reconstruction of the ultrasound attenuation coefficient from the backscattered radio-frequency signal. , 2014, , .		2
339	Continuous ultrasound speckle tracking with Gaussian mixtures. , 2015, 2015, 129-32.		2
340	Towards sub-Nyquist tissue Doppler imaging using non-uniformly spaced stream of pulses. , 2015, , .		2
341	Automatic detection of ischemic myocardium by spatio-temporal analysis of echocardiographic strain and strain rate curves. , 2015, , .		2
342	Robust temporal alignment of multimodal cardiac sequences. , 2015, , .		2

#	Article	IF	Citations
343	3D tendon strain estimation on high-frequency 3D ultrasound images a simulation and phantom study. , 2016, , .		2
344	High frame rate 3D tissue velocity imaging using sub-aperture beamforming: A pilot study in vivo. , 2016, , .		2
345	Real-time catheter localization and visualization using three-dimensional echocardiography. Proceedings of SPIE, 2017, , .	0.8	2
346	heartBEATS: A hybrid energy approach for real-time B-spline explicit active tracking of surfaces. Computerized Medical Imaging and Graphics, 2017, 62, 26-33.	5.8	2
347	Diverging wave compounding: Direct comparison of two popular approaches. , 2017, , .		2
348	Notice of Removal: Assessment of myocardial viability using speckle tracking echocardiography at high spatial resolution. , 2017, , .		2
349	Diverging wave compounding: Direct comparison of two popular approaches. , 2017, , .		2
350	Automatic Definition of an Anatomic Field of View for Volumetric Cardiac Motion Estimation at High Temporal Resolution. Applied Sciences (Switzerland), 2017, 7, 752.	2.5	2
351	Modelling of Channels for Intra-Corporal Ultrasound Communication. , 2018, , .		2
352	Machine Learning for Quality Assurance of Myocardial Strain Curves. , 2018, , .		2
353	Estimation of the Spatial Resolution of a 2D Strain Estimator Using Synthetic Cardiac Images. , 2018, , .		2
354	Performance of F-DMAS beamforming with adjustable maximum spatial lag in multi-line transmission ultrasound imaging. , 2018, , .		2
355	Spatial Coherence Based Beamforming in Multi-Line Transmit Echocardiography. , 2018, , .		2
356	Automated segmentation of the atrial region and fossa ovalis towards computer-aided planning of inter-atrial wall interventions. Computer Methods and Programs in Biomedicine, 2018, 161, 73-84.	4.7	2
357	Estimating Regional Myocardial Contraction Using Miniature Transducers on the Epicardium. Ultrasound in Medicine and Biology, 2019, 45, 2958-2969.	1.5	2
358	3D Convolutional Neural Network for Segmentation of the Urethra in Volumetric Ultrasound of the Pelvic Floor. , 2019, , .		2
359	Interactive Segmentation via Deep Learning and B-Spline Explicit Active Surfaces. Lecture Notes in Computer Science, 2021, , 315-325.	1.3	2
360	2D Intracardiac Flow Estimation by Combining Speckle Tracking with Navier-Stokes Based Regularization: A Study with Dynamic Kernels. Lecture Notes in Computer Science, 2013, , 19-26.	1.3	2

#	Article	IF	Citations
361	Singular Value Decomposition Filtering for High Frame Rate Speckle Tracking Echocardiography. , 2021, , .		2
362	The Effect of Different Coherence-Based Beamforming Techniques on the Accuracy of High Frame Rate Speckle Tracking Echocardiography. , 2020, , .		2
363	High frame rate color Doppler to measure intraventricular pressure gradients. , 2020, , .		2
364	An in-vivo validation study of ultrasonic strain imaging - a comparison of strain derived by ultrasonic strain rate imaging, grey-scale M-mode and MRI. , 0, , .		1
365	A statistical model-based approach for the detection of abnormal cardiac deformation. , 0, , .		1
366	Dystrophin deficient MDX mice poorly tolerate dobutamine stress. Journal of Molecular and Cellular Cardiology, 2007, 42, S164-S165.	1.9	1
367	Microstructural simulation of ultrasonic wave propagation through vertebral bone samples. , 2008, , .		1
368	Comparison of geometric regularization methods for 2D myocardial strain estimation in the mouse. , 2008, , .		1
369	Quantitative elastography, solving the inverse elasticity problem using the Gauss-Newton method.. , 2008, , .		1
370	The influence of left-ventricular shape on end-diastolic fiber stress and strain. , 2009, 2009, 2887-90.		1
371	Ultrasound Physics. , 0, , 1-14.		1
372	Spatial compounding for 2D strain estimation in the mouse heart: A pilot study. , 2010, , .		1
373	Distribution of active fiber stress at the beginning of ejection depends on left-ventricular shape. , 2010, 2010, 2638-41.		1
374	Left ventricular 2D flow pattern estimation of the heart by combining speckle tracking with Navier-Stokes based regularization. , 2010, , .		1
375	Performance of elastic image registration against speckle tracking for 2D cardiac motion and strain estimation. , 2011, , .		1
376	Automated stent strut coverage and apposition analysis of in-vivo intra coronary optical coherence tomography images. Proceedings of SPIE, 2011, , .	0.8	1
377	Automated volumetric stent analysis of in-vivo intracoronary optical coherence tomography three-dimensional datasets. , 2011, , .		1
378	Multiview myocardial segmentation in echocardiographic images using a piecewise parametric shape prior. , 2011, , .		1

#	Article	IF	Citations
379	2D myocardial strain in the mouse through spatial compounding: In-vivo feasibility study. , 2011, , .		1
380	Real-time ultrasound simulation using the GPU. , 2011, , .		1
381	Three-dimensional myocardial strain estimation from volumetric ultrasound data using a novel transformation model adapted to the heart. , 2012, , .		1
382	Multi-transmit beam forming for fast cardiac imaging: Quantitative analysis of the cross-talk between MLT beams. , 2012, , .		1
383	Simultaneous quantification of myocardial and blood flow velocities based on duplex mode ultrasound imaging. BioMedical Engineering OnLine, 2013, 12, 107.	2.7	1
384	An automated pipeline for regional cardiac strain estimation from volumetric ultrasound data. , 2013, , .		1
385	Wide-angle tissue Doppler imaging at high frame rate using multi-line transmit beamforming: An in-vivo pilot study. , 2014, , .		1
386	Ultrasound based dosimetry for radiotherapy: In-vitro proof of principle. , 2014, , .		1
387	Improving the robustness of interventional 4D ultrasound segmentation through the use of personalized prior shape models. Proceedings of SPIE, 2015, , .	0.8	1
388	Automatic left-atrial segmentation from cardiac 3D ultrasound: a dual-chamber model-based approach. Proceedings of SPIE, 2016, , .	0.8	1
389	Notice of Removal: Fast and fully automatic 3D left ventricular segmentation using shape-based B-spline explicit active surfaces. , 2017, , .		1
390	High frame rate, wide-angle tissue Doppler imaging in real-time. , 2017, , .		1
391	Notice of Removal: Machine learning to understand anthropomorphic modulators of spatiotemporal myocardial mechanics. , 2017, , .		1
392	Volumetric imaging of fast mechanical waves in the heart using a clinical ultrasound system: A feasibility study. , 2017, , .		1
393	Ultrasound Imaging of Cardiac Fiber Orientation: What are We Looking at?. , 2018, , .		1
394	Tri-Plane Cardiac Imaging Using Multi-Line Transmission on a Spiral Array: A Feasibility Study. , 2018, , .		1
395	A Novel Interventional Guidance Framework for Transseptal Puncture in Left Atrial Interventions. Lecture Notes in Computer Science, 2018, , 93-101.	1.3	1
396	Non-invasive myocardial performance mapping using 3D echocardiographic stressâ€“strain loops. Physics in Medicine and Biology, 2019, 64, 115026.	3.0	1

#	Article	IF	Citations
397	Semi-automatic aortic valve tract segmentation in 3D cardiac magnetic resonance images using shape-based B-spline explicit active surfaces. , 2019, , .		1
398	A Convolution-based Methodology to Simulate Cardiac Ultrasound Data Sets: Integration of Realistic Beam Profiles. IFMBE Proceedings, 2009, , 2520-2523.	0.3	1
399	Automatic Detection of Myocardial Infarction Through a Global Shape Feature Based on Local Statistical Modeling. Lecture Notes in Computer Science, 2016, , 208-216.	1.3	1
400	Development and characterization of a sparse ellipsoidal 256 element array for volumetric ultrasound imaging. , 2021, , .		1
401	3D segmentation of the left atrial appendage in computed tomography for planning of transcatheter occlusion. , 2022, , .		1
402	WIE ENTSTEHEN HARMONISCHE OBERWELLEN IM KONTRASTMITTEL-ULTRASCHALL ?. Biomedizinische Technik, 2000, 45, 59-60.	0.8	0
403	A simulation study on the influence of dispersion on nonlinear wave propagation [in US contrast imaging]. , 0, , .		0
404	Two-dimensional myocardial strain rate estimation using "snakes". , 0, , .		0
405	A model based approach to estimate contractile force development using myocardial velocity imaging: a validation study during alterations in contractility and heart rate. , 0, , .		0
406	The response of regional integrated backscatter levels and regional strain to inotropic stimulation and acute ischemia. , 0, , .		0
407	The ultrasonic assessment of radial, longitudinal and circumferential cardiac strain in normal pigs. , 0, , .		0
408	P2F-5 Statistical Modeling of the Radio-Frequency Signal in Echocardiographic Images Using Modified K-Distribution and Generalized Generalized Gaussian Distribution. , 2006, , .		0
409	Relation between loss of t-tubules, Na/Ca exchange and ryanodine receptor function in myocardial infarction. Journal of Molecular and Cellular Cardiology, 2007, 42, S246.	1.9	0
410	2054 POSTER Acute effects on cardiac function after breast radiotherapy â€“ a strain rate imaging study. European Journal of Cancer, Supplement, 2007, 5, 200.	2.2	0
411	Radial strain assessment of the interventricular septum wall by a new technique in healthy subjects. Medical and Biological Engineering and Computing, 2007, 45, 855-862.	2.8	0
412	Comparison of the performance of different tools for fast simulation of ultrasound data. , 2008, , .		0
413	Doppler myocardial imaging in the diagnosis of early systolic left ventricular dysfunction in diabetic rats. European Journal of Echocardiography, 2008, 9, 747-747.	2.3	0
414	Assessment of regional myocardial function using 3D cardiac strain estimation: comparison against conventional echocardiographic assessment. , 2009, , .		0

#	Article	IF	Citations
415	A novel measure to express tracking quality in ultrasound block matching. , 2010, , .		0
416	New developments in functional cardiac imaging. , 2010, , .		0
417	Experimental validation of a method for the simulation of backscatter signals from finite, shaped scatterers. , 2011, , .		0
418	Real-time region-based segmentation of 3D inhomogeneous objects in medical images. , 2011, , .		0
419	Towards real-time 3D region-based segmentation: B-spline explicit active surfaces. , 2011, , .		0
420	Comparison of parallel beam forming with plane wave imaging for cardiac applications: A simulation study. , 2011, , .		0
421	An integrated solution for semi-automatic segmentation of volumetric ultrasound data based on B-spline explicit active surfaces. , 2012, , .		0
422	Carotid strain estimation using an ultrasound-based speckle tracking algorithm. , 2012, , .		0
423	A novel method to generate synthetic ultrasound data of the carotid artery based on in vivo observation as a tool to validate algorithm accuracy. , 2012, , .		0
424	A novel method to generate synthetic ultrasound data of the carotid artery based on in vivo observation as a tool to validate algorithm accuracy. , 2012, , .		0
425	Assessment of longitudinal strain in the carotid artery wall using ultrasound-based Speckle tracking - Validation in a sheep model. , 2013, , .		0
426	Consistent regional heterogeneity of passive diastolic stretch: a mechanism for normal systolic function. European Heart Journal, 2013, 34, P1101-P1101.	2.2	0
427	Towards online real-time strain estimation in volumetric us data: Feasibility study and initial clinical validation. , 2013, , .		0
428	A new analytical expression for fast calculation of the transient far field of a rectangular baffled piston. , 2013, , .		0
429	A level-set approach for tracking objects in image sequences using a level conservation constraint: Application to cardiac sequences. , 2014, , .		0
430	Semi-automatic left-atrial segmentation from volumetric ultrasound using B-spline explicit active surfaces. , 2014, , .		0
431	An automatic method for determining the anatomical relevant space for fast volumetric cardiac imaging. , 2015, , .		0
432	A simulation frame work to optimize volumetric cardiac imaging on a multiplexed system. , 2015, , .		0

#	Article	IF	Citations
433	The role of the image phase in cardiac strain imaging. , 2015, , .		0
434	Anatomical view stabilization of multiple 3D transesophageal echocardiograms. , 2016, , .		0
435	A Remedy for the Achillesâ€™ Heel ofÂEchocardiography?. JACC: Cardiovascular Imaging, 2016, 9, 1031-1033.	5.3	0
436	Temperature monitoring by channel data delays: Feasibility based on estimated delays magnitude for cardiac ablation. Ultrasonics, 2017, 77, 32-37.	3.9	0
437	Impact of beamforming strategies and regularisation on ultrasound displacement estimation using RF-based image registration. , 2017, , .		0
438	Motion compensation and sequence optimization for 3D diverging wave compounding: A simulation study. Proceedings of Meetings on Acoustics, 2017, , .	0.3	0
439	Notice of Removal: RF-NRIR for motion estimation in fast cardiac anatomical imaging. , 2017, , .		0
440	Real-time anatomical imaging of the heart on an experimental ultrasound system. , 2017, , .		0
441	High frame rate, wide-angle Tissue Doppler Imaging in real-time. , 2017, , .		0
442	Notice of Removal: An MRI-compatible mock model for intra-cardiac flow imaging. , 2017, , .		0
443	Notice of Removal: Motion correction for multi-plane-transmit beamforming: A simulation study. , 2017, , .		0
444	Velocity resolution improvement for high temporal resolution ultrasonic transducer. , 2017, , .		0
445	Notice of Removal: Phase coherence beamforming to enhance myocardial speckle tracking performance. , 2017, , .		0
446	Low complexity adaptive beamforming with multi line transmit cardiac ultrasound. , 2017, , .		0
447	Velocity resolution improvement for high temporal resolution ultrasonic transducer. , 2017, , .		0
448	Notice of Removal: Comparison of motion corrected multi-plane-transmit beamforming and 3D diverging wave compounding: A simulation study. , 2017, , .		0
449	Real-time anatomical imaging of the heart on an experimental ultrasound system. , 2017, , .		0
450	P4928Doppler indexes of left ventricular diastolic function in relation to hemodynamic load components in a general population. European Heart Journal, 2017, 38, .	2.2	0

#	Article	IF	Citations
451	P6485Biventricular imaging markers to predict outcome in non-compaction cardiomyopathy: a machine learning study. European Heart Journal, 2018, 39, .	2.2	0
452	Ultrasound Signal Reconstruction from Sparse Samples Using a Low-Rank and Joint-Sparse Model. , 2018, , .		0
453	Physical Principles of Ultrasound and Generation of Images. , 2019, , 1-15.e1.		0
454	Understanding Imaging Artifacts. , 2019, , 64-72.e1.		0
455	P606High intermodality variability in ejection fraction measured by echocardiography, cardiac magnetic resonance and single photon emission computed tomography in chronic coronary artery disease patients. European Heart Journal, 2019, 40, .	2.2	0
456	Experimental validation of a novel technique for ultrasound imaging of cardiac fiber orientation. , 2019, , .		0
457	A Direct Measurement of Inter-Element Cross-Talk in Ultrasound Arrays. , 2019, , .		0
458	Multi-plane-transmit (MPT) Volumetric Imaging based on A Matrix Array: Experimental Validation. , 2019, , .		0
459	Experimental validation of the prestretch-strain relationship as a non-invasive index of left ventricular myocardial contractility. PLoS ONE, 2020, 15, e0228027.	2.5	0
460	Myocardial Strain Measured by Epicardial Transducersâ€"Comparison Between Velocity Estimators. Ultrasound in Medicine and Biology, 2021, 47, 1377-1396.	1.5	0
461	WE-D-210-04: Radiation-Induced Polymerization of Ultrasound Contrast Agents in View of Non-Invasive Dosimetry in External Beam Radiation Therapy. Medical Physics, 2015, 42, 3672-3672.	3.0	0
462	SUâ€Eâ€Tâ€44: A Microâ€Raman Spectroscopy Study of the Doseâ€Dependence of EBT3 GafChromicTM Films for Quantifying the Degree of Molecular Polymerization. Medical Physics, 2015, 42, 3340-3341.	3.0	0
463	Technical note: automatic segmentation method of pelvic floor levator hiatus in ultrasound using a self-normalising neural network. , 2018, , .		0
464	Automatic left ventricular segmentation in 4D interventional ultrasound data using a patient-specific temporal synchronized shape prior. , 2019, , .		0
465	Three-dimensional color Doppler ultrasound simulation to mimic paravalvular regurgitation. , 2019, , .		0
466	Validation of novel biomarkers to assess cardiac diastolic function extracted using a high frame rate speckle tracking algorithm. , 2021, , .		0