

Bart H Bijnen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8679740/publications.pdf>

Version: 2024-02-01

306
papers

13,566
citations

18482

62
h-index

28297

105
g-index

318
all docs

318
docs citations

318
times ranked

10458
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine-learning-based exploration to identify remodeling patterns associated with death or heart-transplant in pediatric-dilated cardiomyopathy. Journal of Heart and Lung Transplantation, 2022, 41, 516-526.	0.6	11
2	False Lumen Flow Assessment by Magnetic Resonance Imaging and Long-Term Outcomes in Uncomplicated Aortic Dissection. Journal of the American College of Cardiology, 2022, 79, 2415-2427.	2.8	15
3	Distribution of myocardial work in arterial hypertension: insights from non-invasive left ventricular pressure-strain relations. International Journal of Cardiovascular Imaging, 2021, 37, 145-154.	1.5	28
4	Integration of artificial intelligence into clinical patient management: focus on cardiac imaging. Revista Espanola De Cardiologia (English Ed), 2021, 74, 72-80.	0.6	7
5	La integraci3n de la inteligencia artificial en elAbordaje cl3nico del paciente: enfoque en la imagen cardiaca. Revista Espanola De Cardiologia, 2021, 74, 72-80.	1.2	13
6	Understanding right ventricular dyssynchrony: Its myriad determinants and clinical relevance. Experimental Physiology, 2021, 106, 797-800.	2.0	1
7	Septal curvature as a robust and reproducible marker for basal septal hypertrophy. Journal of Hypertension, 2021, 39, 1421-1428.	0.5	7
8	Right Ventricular Global and Regional Remodeling in American-Style Football Athletes: A Longitudinal 3D Echocardiographic Study. Applied Sciences (Switzerland), 2021, 11, 3357.	2.5	3
9	Etiology-Discriminative Multimodal Imaging of Left Ventricular Hypertrophy and Synchrotron-Based Assessment of Microstructural Tissue Remodeling. Frontiers in Cardiovascular Medicine, 2021, 8, 670734.	2.4	5
10	Volumetric parcellation of the cardiac right ventricle for regional geometric and functional assessment. Medical Image Analysis, 2021, 71, 102044.	11.6	5
11	Automated Pattern Recognition in Whole-Cardiac Cycle Echocardiographic Data: Capturing Functional Phenotypes with Machine Learning. Journal of the American Society of Echocardiography, 2021, 34, 1170-1183.	2.8	10
12	Comprehensive assessment of myocardial remodeling in ischemic heart disease by synchrotron propagation based X-ray phase contrast imaging. Scientific Reports, 2021, 11, 14020.	3.3	14
13	Exercise Capacity in Young Adults Born Small for Gestational Age. JAMA Cardiology, 2021, 6, 1308.	6.1	21
14	Postsystolic thickening is a potential new clinical sign of injured myocardium in marfan syndrome. Scientific Reports, 2021, 11, 15790.	3.3	2
15	Towards Mesh-Free Patient-Specific Mitral Valve Modeling. Lecture Notes in Computer Science, 2021, , 66-75.	1.3	1
16	Machine Learning for Clinical Decision-Making: Challenges and Opportunities in Cardiovascular Imaging. Frontiers in Cardiovascular Medicine, 2021, 8, 765693.	2.4	26
17	Analysis of nonstandardized stress echocardiography sequences using multiview dimensionality reduction. Medical Image Analysis, 2020, 60, 101594.	11.6	6
18	Machine Learning in Fetal Cardiology: What to Expect. Fetal Diagnosis and Therapy, 2020, 47, 363-372.	1.4	66

#	ARTICLE	IF	CITATIONS
19	Variability in the Assessment of Myocardial Strain Patterns: Implications for Adequate Interpretation. Ultrasound in Medicine and Biology, 2020, 46, 244-254.	1.5	4
20	Pulmonary transit of contrast during exercise is related to improved cardio-pulmonary performance in highly trained endurance athletes. European Journal of Preventive Cardiology, 2020, 27, 1504-1514.	1.8	3
21	Handling confounding variables in statistical shape analysis - application to cardiac remodelling. Medical Image Analysis, 2020, 65, 101792.	11.6	9
22	Comprehensive data integrationâ€”Toward a more personalized assessment of diastolic function. Echocardiography, 2020, 37, 1926-1935.	0.9	0
23	Calibration of a fully coupled electromechanical meshless computational model of the heart with experimental data. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112869.	6.6	6
24	Three-dimensional regional bi-ventricular shape remodeling is associated with exercise capacity in endurance athletes. European Journal of Applied Physiology, 2020, 120, 1227-1235.	2.5	10
25	Basal Ventricular Septal Hypertrophy in Systemic Hypertension. American Journal of Cardiology, 2020, 125, 1339-1346.	1.6	23
26	Main Patterns of Fetal Cardiac Remodeling. Fetal Diagnosis and Therapy, 2020, 47, 337-344.	1.4	27
27	Structural coronary artery remodelling in the rabbit fetus as a result of intrauterine growth restriction. PLoS ONE, 2019, 14, e0218192.	2.5	5
28	Should the septum be included in the assessment of right ventricular longitudinal strain? An ultrasound two-dimensional speckle-tracking stress study. International Journal of Cardiovascular Imaging, 2019, 35, 1853-1860.	1.5	9
29	Breaking the state of the heart: meshless model for cardiac mechanics. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1549-1561.	2.8	22
30	Comprehensive Analysis of Animal Models of Cardiovascular Disease using Multiscale X-Ray Phase Contrast Tomography. Scientific Reports, 2019, 9, 6996.	3.3	33
31	Cardiac performance after an endurance open water swimming race. European Journal of Applied Physiology, 2019, 119, 961-970.	2.5	10
32	Impact of Interventricular Interactions on Left Ventricular Function, Stroke Volume, and Exercise Capacity in Children and Adults With Ebsteinâ€™s Anomaly. JACC: Cardiovascular Imaging, 2019, 12, 925-927.	5.3	12
33	Machine learningâ€“based phenogrouping in heart failure to identify responders to cardiac resynchronization therapy. European Journal of Heart Failure, 2019, 21, 74-85.	7.1	175
34	Postnatal persistence of fetal cardiovascular remodelling associated with assisted reproductive technologies: a cohort study. BJOG: an International Journal of Obstetrics and Gynaecology, 2019, 126, 291-298.	2.3	37
35	HEART RATE REDUCTION IMPROVES BIVENTRICULAR FUNCTION AND INTERACTIONS IN EXPERIMENTAL PULMONARY HYPERTENSION. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H542-H551.	3.2	15
36	Machine Learning Analysis of Left Ventricular Function to Characterize Heart Failure With Preserved Ejection Fraction. Circulation: Cardiovascular Imaging, 2018, 11, e007138.	2.6	95

#	ARTICLE	IF	CITATIONS
37	Remodeling of the cardiovascular circulation in fetuses of mothers with diabetes: A fetal computational model analysis. <i>Placenta</i> , 2018, 63, 1-6.	1.5	2
38	Online versus offline spatiotemporal image correlation (STIC) M-mode for the evaluation of cardiac longitudinal annular displacement in fetal growth restriction. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2018, 31, 1845-1850.	1.5	4
39	Fetal cardiac remodeling in twin pregnancy conceived by assisted reproductive technology. <i>Ultrasound in Obstetrics and Gynecology</i> , 2018, 51, 94-100.	1.7	16
40	Modeling liver electrical conductivity during hypertonic injection. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2904.	2.1	2
41	A computational model-based approach for atlas construction of aortic Doppler velocity profiles for segmentation purposes. <i>Biomedical Signal Processing and Control</i> , 2018, 40, 23-32.	5.7	3
42	Relationship between the left ventricular size and the amount of trabeculations. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2939.	2.1	24
43	MicroCT imaging reveals differential 3D micro-scale remodelling of the murine aorta in ageing and Marfan syndrome. <i>Theranostics</i> , 2018, 8, 6038-6052.	10.0	17
44	Complex Congenital Heart Disease Associated With Disordered Myocardial Architecture in a Midtrimester Human Fetus. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e007753.	2.6	40
45	Quantification of Right Ventricular Electromechanical Dyssynchrony in Relation to Right Ventricular Function and Clinical Outcomes in Children with Repaired Tetralogy of Fallot. <i>Journal of the American Society of Echocardiography</i> , 2018, 31, 822-830.	2.8	28
46	Quantification of the detailed cardiac left ventricular trabecular morphogenesis in the mouse embryo. <i>Medical Image Analysis</i> , 2018, 49, 89-104.	11.6	10
47	Added value of cardiac deformation imaging in differential diagnosis of left ventricular hypertrophy. <i>Global Cardiology Science & Practice</i> , 2018, 2018, 21.	0.4	3
48	Machine learning from fetal flow waveforms to predict adverse perinatal outcomes: a study protocol. <i>Gates Open Research</i> , 2018, 2, 8.	1.1	7
49	The Quantification of Myocardial remodelling in a Rat Model of Myocardial Infarction by Synchrotron X-ray Phase Contrast Imaging. <i>Cardiologia Croatica</i> , 2018, 13, 433-434.	0.0	0
50	Basal septal hypertrophy in patients with hypertension: a non-invasive assessment of segmental myocardial work with left ventricular pressure-strain relations. <i>Cardiologia Croatica</i> , 2018, 13, 411-412.	0.0	0
51	Left ventricular dysfunction is related to the presence and extent of a septal flash in patients with right ventricular pacing. <i>Europace</i> , 2017, 19, euw020.	1.7	19
52	Characterization of myocardial motion patterns by unsupervised multiple kernel learning. <i>Medical Image Analysis</i> , 2017, 35, 70-82.	11.6	49
53	Understanding the Aortic Isthmus Doppler Profile and Its Changes with Gestational Age Using a Lumped Model of the Fetal Circulation. <i>Fetal Diagnosis and Therapy</i> , 2017, 41, 41-50.	1.4	7
54	Persistence of Cardiac Remodeling in Preadolescents With Fetal Growth Restriction. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	2.6	60

#	ARTICLE	IF	CITATIONS
55	Quantitative Analysis of Electro-Anatomical Maps: Application to an Experimental Model of Left Bundle Branch Block/Cardiac Resynchronization Therapy. IEEE Journal of Translational Engineering in Health and Medicine, 2017, 5, 1-15.	3.7	11
56	Influence of gender on right ventricle adaptation to endurance exercise: an ultrasound two-dimensional speckle-tracking stress study. European Journal of Applied Physiology, 2017, 117, 389-396.	2.5	26
57	Assessment of myocardial ischemia by strain dobutamine stress echocardiography and cardiac magnetic resonance perfusion imaging before and after coronary artery bypass grafting. Echocardiography, 2017, 34, 557-566.	0.9	7
58	Severity of structural and functional right ventricular remodeling depends on training load in an experimental model of endurance exercise. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H459-H468.	3.2	29
59	Gender influence on the adaptation of atrial performance to training. European Journal of Sport Science, 2017, 17, 720-726.	2.7	28
60	Cardiovascular Benefits of Moderate Exercise Training in Marfan Syndrome: Insights From an Animal Model. Journal of the American Heart Association, 2017, 6, .	3.7	39
61	PPAR δ agonists acutely inhibit calcium-independent PLA2 to reduce H2O2-induced contractions in aortae of spontaneously hypertensive rats. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 314, ajpheart.00314..	3.2	3
62	Experimentally induced intrauterine growth restriction in rabbits leads to differential remodelling of left versus right ventricular myocardial microstructure. Histochemistry and Cell Biology, 2017, 148, 557-567.	1.7	21
63	Descriptive analysis of different phenotypes of cardiac remodeling in fetal growth restriction. Ultrasound in Obstetrics and Gynecology, 2017, 50, 207-214.	1.7	69
64	Patient independent representation of the detailed cardiac ventricular anatomy. Medical Image Analysis, 2017, 35, 270-287.	11.6	13
65	Differential effect of assisted reproductive technology and smallâ€forâ€gestational age on fetal cardiac remodeling. Ultrasound in Obstetrics and Gynecology, 2017, 50, 63-70.	1.7	16
66	Characterizing the spectrum of right ventricular remodelling in response to chronic training. International Journal of Cardiovascular Imaging, 2017, 33, 331-339.	1.5	13
67	Whole heart detailed and quantitative anatomy, myofibre structure and vasculature from X-ray phase-contrast synchrotron radiation-based micro computed tomography. European Heart Journal Cardiovascular Imaging, 2017, 18, 732-741.	1.2	50
68	A two dimensional electromechanical model of a cardiomyocyte to assess intra-cellular regional mechanical heterogeneities. PLoS ONE, 2017, 12, e0182915.	2.5	5
69	False Lumen Flow Patterns and their Relation with Morphological and Biomechanical Characteristics of Chronic Aortic Dissections. Computational Model Compared with Magnetic Resonance Imaging Measurements. PLoS ONE, 2017, 12, e0170888.	2.5	26
70	Microstructural Analysis of Cardiac Endomyocardial Biopsies with Synchrotron Radiation-Based X-Ray Phase Contrast Imaging. Lecture Notes in Computer Science, 2017, , 23-31.	1.3	6
71	3D membrane segmentation and quantification of intact thick cells using cryo soft X-ray transmission microscopy: A pilot study. PLoS ONE, 2017, 12, e0174324.	2.5	4
72	Assessment of Haemodynamic Remodeling in Fetal Aortic Coarctation Using a Lumped Model of the Circulation. Lecture Notes in Computer Science, 2017, , 471-480.	1.3	1

#	ARTICLE	IF	CITATIONS
73	Estimating 3D Ventricular Shape From 2D Echocardiography: Feasibility and Effect of Noise. Lecture Notes in Computer Science, 2017, , 450-460.	1.3	0
74	Zidovudine treatment in HIV-infected pregnant women is associated with fetal cardiac remodelling. Aids, 2016, 30, 1393-1401.	2.2	33
75	Differential atrial performance at rest and exercise in athletes: Potential trigger for developing atrial dysfunction?. Scandinavian Journal of Medicine and Science in Sports, 2016, 26, 1444-1454.	2.9	30
76	Fetal cardiovascular remodeling persists at 6 months in infants with intrauterine growth restriction. Ultrasound in Obstetrics and Gynecology, 2016, 48, 349-356.	1.7	88
77	Adverse ventricular-ventricular interactions in right ventricular pressure load: Insights from pediatric pulmonary hypertension versus pulmonary stenosis. Physiological Reports, 2016, 4, e12833.	1.7	24
78	The septal bulge"an early echocardiographic sign in hypertensive heart disease. Journal of the American Society of Hypertension, 2016, 10, 70-80.	2.3	34
79	La funci3n de la aur3cula izquierda est3 alterada en algunos pacientes con ictus criptog3nico: potenciales implicaciones en su evaluaci3n y tratamiento. Revista Espanola De Cardiologia, 2016, 69, 650-656.	1.2	11
80	Left Atrial Function Is Impaired in Some Patients With Stroke of Undetermined Etiology: Potential Implications for Evaluation and Therapy. Revista Espanola De Cardiologia (English Ed), 2016, 69, 650-656.	0.6	12
81	Prognostic Value of Left Atrial Strain in Outpatients with De Novo Heart Failure. Journal of the American Society of Echocardiography, 2016, 29, 1035-1042.e1.	2.8	37
82	Acute, Exercise Dose-Dependent Impairment in Atrial Performance During an Endurance Race. JACC: Cardiovascular Imaging, 2016, 9, 1380-1388.	5.3	33
83	High-sensitivity Troponin: A Clinical Blood Biomarker for Staging Cardiomyopathy in Fabry Disease. Journal of the American Heart Association, 2016, 5, .	3.7	55
84	Comparison of Two Different Ultrasound Systems for the Evaluation of Tissue Doppler Velocities in Fetuses. Fetal Diagnosis and Therapy, 2016, 40, 35-40.	1.4	10
85	Usefulness of an Implantable Loop Recorder to Detect Clinically Relevant Arrhythmias in Patients With Advanced Fabry Cardiomyopathy. American Journal of Cardiology, 2016, 118, 264-274.	1.6	53
86	Heart morphology differences induced by intrauterine growth restriction and preterm birth measured on the ECG at preadolescent age. Journal of Electrocardiology, 2016, 49, 401-409.	0.9	9
87	Dyssynchronization reduces dynamic obstruction without affecting systolic function in patients with hypertrophic obstructive cardiomyopathy: a pilot study. International Journal of Cardiovascular Imaging, 2016, 32, 1179-1188.	1.5	7
88	Inter-individual variability in right ventricle adaptation after an endurance race. European Journal of Preventive Cardiology, 2016, 23, 1114-1124.	1.8	26
89	Influence of breastfeeding and postnatal nutrition on cardiovascular remodeling induced by fetal growth restriction. Pediatric Research, 2016, 79, 100-106.	2.3	54
90	Heart morphology differences induced by intrauterine growth restriction and premature birth measured on the ECG in pre-adolescents. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
91	Interatrial Dyssynchrony May Contribute to Heart Failure Symptoms in Patients with Preserved Ejection Fraction. <i>Echocardiography</i> , 2015, 32, 1655-1661.	0.9	7
92	Changes in Right Ventricular Shape and Deformation Following Coronary Artery Bypass Surgeryâ€”Insights from Echocardiography with Strain Rate and Magnetic Resonance Imaging. <i>Echocardiography</i> , 2015, 32, 1809-1820.	0.9	34
93	Validation of numerical flow simulations against<i>in vitro</i>phantom measurements in different type B aortic dissection scenarios. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 805-815.	1.6	20
94	Left atrial dysfunction relates to symptom onset in patients with heart failure and preserved left ventricular ejection fraction. <i>European Heart Journal Cardiovascular Imaging</i> , 2015, 16, 62-67.	1.2	84
95	Left atrial deformation predicts success of first and second percutaneous atrial fibrillation ablation. <i>Heart Rhythm</i> , 2015, 12, 11-18.	0.7	70
96	Maternal subclinical vascular changes in fetal growth restriction with and without preâ€œclampsia. <i>Ultrasound in Obstetrics and Gynecology</i> , 2015, 46, 706-712.	1.7	16
97	Impact of monitoring longitudinal systolic strain changes during serial echocardiography on outcome in patients with AL amyloidosis. <i>International Journal of Cardiovascular Imaging</i> , 2015, 31, 1401-1412.	1.5	20
98	Severe regional myocardial dysfunction by stress echocardiography does not predict the presence of transmural scarring in chronic coronary artery disease. <i>European Heart Journal Cardiovascular Imaging</i> , 2015, 16, 1074-1081.	1.2	10
99	Patient-specific estimates of vascular and placental properties in growth-restricted fetuses based on a model of the fetal circulation. <i>Placenta</i> , 2015, 36, 981-989.	1.5	12
100	Quantification of local changes in myocardial motion by diffeomorphic registration via currents: Application to paced hypertrophic obstructive cardiomyopathy in 2D echocardiographic sequences. <i>Medical Image Analysis</i> , 2015, 19, 203-219.	11.6	5
101	Assessment of Myofiber Orientation in High Resolution Phase-Contrast CT Images. <i>Lecture Notes in Computer Science</i> , 2015, , 111-119.	1.3	8
102	Subject Independent Reference Frame for the Left Ventricular Detailed Cardiac Anatomy. <i>Lecture Notes in Computer Science</i> , 2015, , 240-247.	1.3	1
103	Assessment of Wall Elasticity Variations on Intraluminal Haemodynamics in Descending Aortic Dissections Using a Lumped-Parameter Model. <i>PLoS ONE</i> , 2015, 10, e0124011.	2.5	11
104	Left Ventricular Geometry and Blood Pressure as Predictors of Adverse Progression of Fabry Cardiomyopathy. <i>PLoS ONE</i> , 2015, 10, e0140627.	2.5	27
105	A Computational Model of the Fetal Circulation to Quantify Blood Redistribution in Intrauterine Growth Restriction. <i>PLoS Computational Biology</i> , 2014, 10, e1003667.	3.2	48
106	Atrial apoptosis and fibrosis adversely affect atrial conduit, reservoir and contractile functions. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2014, 19, 223-230.	1.1	34
107	Aortic and carotid intimaâ€œmedia thickness in term smallâ€œforâ€œgestationalâ€œage newborns and relationship with prenatal signs of severity. <i>Ultrasound in Obstetrics and Gynecology</i> , 2014, 43, 625-631.	1.7	37
108	Gene Mutations Versus Clinically Relevant Phenotypes. <i>Circulation: Cardiovascular Genetics</i> , 2014, 7, 8-16.	5.1	118

#	ARTICLE	IF	CITATIONS
109	Automated cardiac sarcomere analysis from second harmonic generation images. Journal of Biomedical Optics, 2014, 19, 056010.	2.6	9
110	Mechanisms of Right Ventricular Electromechanical Dyssynchrony and Mechanical Inefficiency in Children After Repair of Tetralogy of Fallot. Circulation: Cardiovascular Imaging, 2014, 7, 610-618.	2.6	53
111	Influence of dynamic obstruction and hypertrophy location on diastolic function in hypertrophic cardiomyopathy. Journal of Cardiovascular Medicine, 2014, 15, 207-213.	1.5	4
112	A fetal cardiovascular score to predict infant hypertension and arterial remodeling in intrauterine growth restriction. American Journal of Obstetrics and Gynecology, 2014, 210, 552.e1-552.e22.	1.3	70
113	Atrial functional and geometrical remodeling in highly trained male athletes: for better or worse?. European Journal of Applied Physiology, 2014, 114, 1143-1152.	2.5	41
114	Septal flash predicts cardiac resynchronization therapy response in patients with permanent atrial fibrillation. Europace, 2014, 16, 1342-1349.	1.7	17
115	Left atrial size and function by three-dimensional echocardiography to predict arrhythmia recurrence after first and repeated ablation of atrial fibrillation. European Heart Journal Cardiovascular Imaging, 2014, 15, 515-522.	1.2	43
116	Mechanical Abnormalities Detected With Conventional Echocardiography Are Associated With Response and Midterm Survival in CRT. JACC: Cardiovascular Imaging, 2014, 7, 969-979.	5.3	55
117	Myocardial motion and deformation patterns in an experimental swine model of acute LBBB/CRT and chronic infarct. International Journal of Cardiovascular Imaging, 2014, 30, 875-887.	1.5	12
118	Postsystolic Shortening by Myocardial Deformation Imaging as a Sign of Cardiac Adaptation to Pressure Overload in Fetal Growth Restriction. Circulation: Cardiovascular Imaging, 2014, 7, 781-787.	2.6	70
119	Integration of Mechanical, Structural and Electrical Imaging to Understand Response to Cardiac Resynchronization Therapy. Revista Espanola De Cardiologia (English Ed), 2014, 67, 813-821.	0.6	2
120	Integración de la imagen mecánica, estructural y eléctrica para entender la respuesta a la terapia de resincronización cardíaca. Revista Espanola De Cardiologia, 2014, 67, 813-821.	1.2	6
121	Improved Myocardial Motion Estimation Combining Tissue Doppler and B-Mode Echocardiographic Images. IEEE Transactions on Medical Imaging, 2014, 33, 2098-2106.	8.9	5
122	Permanent Cardiac Sarcomere Changes in a Rabbit Model of Intrauterine Growth Restriction. PLoS ONE, 2014, 9, e113067.	2.5	21
123	Predictive Value of Assessing Diastolic Strain Rate on Survival in Cardiac Amyloidosis Patients with Preserved Ejection Fraction. PLoS ONE, 2014, 9, e115910.	2.5	31
124	Absolute joint moments: a novel image similarity measure. Eurasip Journal on Image and Video Processing, 2013, 2013, .	2.6	3
125	Development of a Swine Model of Left Bundle Branch Block for Experimental Studies of Cardiac Resynchronization Therapy. Journal of Cardiovascular Translational Research, 2013, 6, 616-622.	2.4	18
126	Atlas Construction for Cardiac Velocity Profiles Segmentation Using a Lumped Computational Model of Circulatory System. Lecture Notes in Computer Science, 2013, , 89-96.	1.3	0

#	ARTICLE	IF	CITATIONS
127	Intrauterine growth restriction is associated with cardiac ultrastructural and gene expression changes related to the energetic metabolism in a rabbit model. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1752-H1760.	3.2	24
128	Effect of Cardiac Resynchronization Therapy on Left Ventricular Diastolic Function: Implications for Clinical Outcome. Journal of Cardiac Failure, 2013, 19, 795-801.	1.7	13
129	An in vitro phantom study on the influence of tear size and configuration on the hemodynamics of the lumina in chronic type B aortic dissections. Journal of Vascular Surgery, 2013, 57, 464-474.e5.	1.1	84
130	Patterns of maternal vascular remodeling and responsiveness in early- versus late-onset preeclampsia. American Journal of Obstetrics and Gynecology, 2013, 209, 558.e1-558.e14.	1.3	50
131	Using Simple Imaging Markers to Predict Prognosis in Patients With Aortic Valve Stenosis and Unacceptable High Risk for Operation. American Journal of Cardiology, 2013, 112, 1819-1827.	1.6	5
132	Noncompaction Cardiomyopathy is Associated With Mechanical Dyssynchrony: A Potential Underlying Mechanism for Favorable Response to Cardiac Resynchronization Therapy. Journal of Cardiac Failure, 2013, 19, 80-86.	1.7	10
133	Assisted Reproductive Technologies Are Associated With Cardiovascular Remodeling In Utero That Persists Postnatally. Circulation, 2013, 128, 1442-1450.	1.6	138
134	Effect of Combined Systolic and Diastolic Functional Parameter Assessment for Differentiation of Cardiac Amyloidosis From Other Causes of Concentric Left Ventricular Hypertrophy. Circulation: Cardiovascular Imaging, 2013, 6, 1066-1072.	2.6	150
135	Reliability of quantitative elastography of the uterine cervix in at-term pregnancies. Journal of Perinatal Medicine, 2013, 41, 421-427.	1.4	28
136	Influence of Atrioventricular Interaction on Mitral Valve Closure and Left Ventricular Isovolumic Contraction Measured by Tissue Doppler Imaging. Circulation: Cardiovascular Imaging, 2013, 6, 109-116.	2.6	13
137	Clinical implication of mitral annular plane systolic excursion for patients with cardiovascular disease. European Heart Journal Cardiovascular Imaging, 2013, 14, 205-212.	1.2	145
138	Value of annular M-mode displacement <i>vs</i> tissue Doppler velocities to assess cardiac function in intrauterine growth restriction. Ultrasound in Obstetrics and Gynecology, 2013, 42, 175-181.	1.7	74
139	Impact of Regional Left Ventricular Function on Outcome for Patients with AL Amyloidosis. PLoS ONE, 2013, 8, e56923.	2.5	23
140	Improving Clinical Translation of Cardiovascular Circulatory Models through an Intuitive Graphical User Interface to CircAdapt, Presenting Simulation Results as Clinical Images and Signals. Lecture Notes in Computer Science, 2013, , 345-354.	1.3	2
141	Understanding Prenatal Brain Sparing by Flow Redistribution Based on a Lumped Model of the Fetal Circulation. Lecture Notes in Computer Science, 2013, , 123-131.	1.3	3
142	Manifold Learning Characterization of Abnormal Myocardial Motion Patterns: Application to CRT-Induced Changes. Lecture Notes in Computer Science, 2013, , 450-457.	1.3	1
143	Principles of 3D Echocardiographic Imaging. , 2013, , 1-10.		1
144	Exercise Induced Inter-individual Variation of Right Ventricular Pressures: Simulations Using a Modular Model of the Cardiovascular System. Lecture Notes in Computer Science, 2013, , 336-344.	1.3	0

#	ARTICLE	IF	CITATIONS
145	Cardiac Microstructure Estimation from Multi-photon Confocal Microscopy Images. Lecture Notes in Computer Science, 2013, , 80-88.	1.3	1
146	Understanding Hemodynamics and Its Determinant Factors in Type B Aortic Dissections Using an Equivalent Lumped Model. Lecture Notes in Computer Science, 2013, , 375-382.	1.3	0
147	Myocardial Motion Estimation Combining Tissue Doppler and B-mode Echocardiographic Images. Lecture Notes in Computer Science, 2013, 16, 484-491.	1.3	2
148	Differentiation Between Fresh and Old Left Ventricular Thrombi by Deformation Imaging. Circulation: Cardiovascular Imaging, 2012, 5, 667-675.	2.6	20
149	Evaluating patients for CRT, what is relevant: identifying responders or estimating the amount of potential response?. Anatolian Journal of Cardiology, 2012, 12, 276; author reply 277-8.	0.4	0
150	The Heart in Friedreich Ataxia. Circulation, 2012, 125, 1626-1634.	1.6	119
151	Long-Term Outcome of Aortic Dissection With Patent False Lumen. Circulation, 2012, 125, 3133-3141.	1.6	327
152	Myocardial Motion and Deformation: What Does It Tell Us and How Does It Relate to Function?. Fetal Diagnosis and Therapy, 2012, 32, 5-16.	1.4	66
153	Persistent dysfunction of viable myocardium after revascularization in chronic ischaemic heart disease: implications for dobutamine stress echocardiography with longitudinal systolic strain and strain rate measurements. European Heart Journal Cardiovascular Imaging, 2012, 13, 745-755.	1.2	19
154	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
155	Feasibility and Reproducibility of a Standard Protocol for 2D Speckle Tracking and Tissue Doppler-Based Strain and Strain Rate Analysis of the Fetal Heart. Fetal Diagnosis and Therapy, 2012, 32, 96-108.	1.4	73
156	Cardiovascular programming in children born small for gestational age and relationship with prenatal signs of severity. American Journal of Obstetrics and Gynecology, 2012, 207, 121.e1-121.e9.	1.3	146
157	Relationship between endocardial activation sequences defined by high-density mapping to early septal contraction (septal flash) in patients with left bundle branch block undergoing cardiac resynchronization therapy. Europace, 2012, 14, 99-106.	1.7	61
158	Image registration and atlas-based segmentation of cardiac outflow velocity profiles. Computer Methods and Programs in Biomedicine, 2012, 106, 188-200.	4.7	5
159	Cardiac motion estimation by joint alignment of tagged MRI sequences. Medical Image Analysis, 2012, 16, 339-350.	11.6	26
160	Which Reorientation Framework for the Atlas-Based Comparison of Motion from Cardiac Image Sequences?. Lecture Notes in Computer Science, 2012, , 25-37.	1.3	7
161	Assessing aortic strain and stiffness: don't forget the physics and engineering. Heart, 2011, 97, 339-339.	2.9	5
162	Validation of Echocardiographic Left Atrial Parameters in Atrial Fibrillation Using the Index Beat of Preceding Cardiac Cycles of Equal Duration. Journal of the American Society of Echocardiography, 2011, 24, 1141-1147.	2.8	29

#	ARTICLE	IF	CITATIONS
163	Biventricular pacing in hypertrophic obstructive cardiomyopathy: A pilot study. <i>Heart Rhythm</i> , 2011, 8, 221-227.	0.7	34
164	Myocardial Deformation Analysis in Chagas Heart Disease With the Use of Speckle Tracking Echocardiography. <i>Journal of Cardiac Failure</i> , 2011, 17, 1028-1034.	1.7	42
165	Assessment of Aortic Stiffness in Marfan Syndrome Using Two-Dimensional and Doppler Echocardiography. <i>Echocardiography</i> , 2011, 28, 29-37.	0.9	21
166	Impaired Biventricular Deformation in Marfan Syndrome: A Strain and Strain Rate Study in Adult Unoperated Patients. <i>Echocardiography</i> , 2011, 28, 416-430.	0.9	25
167	Morphologic Pattern of Late Gadolinium Enhancement in Takotsubo Cardiomyopathy Detected by Early Cardiovascular Magnetic Resonance. <i>Clinical Cardiology</i> , 2011, 34, 178-182.	1.8	37
168	Realistic simulation of cardiac magnetic resonance studies modeling anatomical variability, trabeculae, and papillary muscles. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 280-288.	3.0	22
169	A spatiotemporal statistical atlas of motion for the quantification of abnormal myocardial tissue velocities. <i>Medical Image Analysis</i> , 2011, 15, 316-328.	11.6	68
170	89 Electromechanical interaction in patients undergoing cardiac resynchronisation therapy: comparison of intracardiac activation maps and early septal contraction in left bundle branch block. <i>Heart</i> , 2011, 97, A52-A52.	2.9	0
171	Prediction of postoperative left ventricular systolic function in patients with chronic mitral regurgitation undergoing valve surgery ??? the role of deformation imaging. <i>European Journal of Cardio-thoracic Surgery</i> , 2011, 40, 1131-7.	1.4	8
172	Failure to Unmask Pseudonormal Diastolic Function by a Valsalva Maneuver. <i>Circulation: Cardiovascular Imaging</i> , 2011, 4, 671-677.	2.6	5
173	Effects of the Purkinje System and Cardiac Geometry on Biventricular Pacing: A Model Study. <i>Annals of Biomedical Engineering</i> , 2010, 38, 1388-1398.	2.5	72
174	Feasibility of estimating regional mechanical properties of cerebral aneurysms<i>in vivo</i>. <i>Medical Physics</i> , 2010, 37, 1689-1706.	3.0	22
175	Fetal Growth Restriction Results in Remodeled and Less Efficient Hearts in Children. <i>Circulation</i> , 2010, 121, 2427-2436.	1.6	359
176	Sparse active shape models: influence of the interpolation kernel on segmentation accuracy and speed. , 2010, , .		0
177	Characterizing Myocardial Deformation in Patients With Left Ventricular Hypertrophy of Different Etiologies Using the Strain Distribution Obtained by Magnetic Resonance Imaging. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2010, 63, 1281-1291.	0.6	5
178	Influence of tear configuration on false and true lumen haemodynamics in type B aortic dissection. , 2010, 2010, 2509-12.		7
179	Caracterizaci3n de la deformaci3n mioc3rdica en pacientes con hipertrofia ventricular izquierda de diferente etiolog3a mediante el uso de distribuciones de strain obtenidas de im3genes de resonancia magn3tica. <i>Revista Espanola De Cardiologia</i> , 2010, 63, 1281-1291.	1.2	12
180	The role of echocardiographic deformation imaging in hypertrophic myopathies. <i>Nature Reviews Cardiology</i> , 2010, 7, 384-396.	13.7	80

#	ARTICLE	IF	CITATIONS
181	A Multi-method Approach towards Understanding the Pathophysiology of Aortic Dissections – The Complementary Role of In-Silico, In-Vitro and In-Vivo Information. Lecture Notes in Computer Science, 2010, , 114-123.	1.3	7
182	Cardiac Modelling for Pathophysiology Research and Clinical Applications. The Need for an Automated Pipeline. IFMBE Proceedings, 2009, , 2207-2210.	0.3	7
183	The shape of the aortic outflow velocity profile revisited: is there a relation between its asymmetry and ventricular function in coronary artery disease?. European Journal of Echocardiography, 2009, 10, 847-857.	2.3	6
184	Biventricular and atrial diastolic function assessment using conventional echocardiography and tissue-Doppler imaging in adults with Marfan syndrome. European Journal of Echocardiography, 2009, 10, 947-955.	2.3	30
185	Myocardial deformation from tagged MRI in hypertrophic cardiomyopathy using an efficient registration strategy. , 2009, , .		4
186	A method for registration and model-based segmentation of Doppler ultrasound images. Proceedings of SPIE, 2009, , .	0.8	1
187	Non-stationary diffeomorphic registration: application to endo-vascular treatment monitoring. , 2009, , .		1
188	Systolic and diastolic assessment by 3D-ASM segmentation of gated-SPECT Studies: a comparison with MRI. Proceedings of SPIE, 2009, , .	0.8	0
189	Estimating Continuous 4D Wall Motion of Cerebral Aneurysms from 3D Rotational Angiography. Lecture Notes in Computer Science, 2009, 12, 140-147.	1.3	6
190	Cardiac injuries in blunt chest trauma. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 35.	3.3	16
191	Myocardial deformation abnormalities in patients with aortic regurgitation: a strain rate imaging study. European Journal of Echocardiography, 2009, 10, 112-119.	2.3	70
192	GIMIAS: An Open Source Framework for Efficient Development of Research Tools and Clinical Prototypes. Lecture Notes in Computer Science, 2009, , 417-426.	1.3	47
193	How to detect early left atrial remodelling and dysfunction in mild-to-moderate hypertension. Journal of Hypertension, 2009, 27, 2086-2093.	0.5	30
194	Relation of circulating markers of fibrosis and progression of left and right ventricular dysfunction in hypertensive patients with heart failure. Journal of Hypertension, 2009, 27, 2483-2491.	0.5	74
195	Toward understanding response to cardiac resynchronization therapy: left ventricular dyssynchrony is only one of multiple mechanisms. European Heart Journal, 2009, 30, 940-949.	2.2	211
196	Cardiac Motion Estimation from Intracardiac Electrical Mapping Data: Identifying a Septal Flash in Heart Failure. Lecture Notes in Computer Science, 2009, , 21-29.	1.3	7
197	Large Diffeomorphic FFD Registration for Motion and Strain Quantification from 3D-US Sequences. Lecture Notes in Computer Science, 2009, , 437-446.	1.3	23
198	Septal Flash Assessment on CRT Candidates Based on Statistical Atlases of Motion. Lecture Notes in Computer Science, 2009, 12, 759-766.	1.3	6

#	ARTICLE	IF	CITATIONS
199	Detecting Volume Responders prior to Implantation of a Cardiac Resynchronization Therapy Device via Minithoracotomy: The Septal Flash as a Predictor of Immediate Left Ventricular Reverse Remodeling. Heart Surgery Forum, 2009, 12, E362-E367.	0.5	6
200	The Purkinje System and Cardiac Geometry: Assessing Their Influence on the Paced Heart. Lecture Notes in Computer Science, 2009, , 68-77.	1.3	1
201	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
202	Special Issue on Imaging and the Virtual Physiological Human. IEEE Transactions on Medical Imaging, 2008, 27, 874-874.	8.9	0
203	Usefulness of Changes in Left Ventricular Wall Thickness to Predict Full or Partial Pressure Reperfusion in ST-Elevation Acute Myocardial Infarction. American Journal of Cardiology, 2008, 102, 249-256.	1.6	10
204	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
205	Quantitative dobutamine stress echocardiography for the early detection of cardiac allograft vasculopathy in heart transplant recipients. Heart, 2008, 94, e3-e3.	2.9	52
206	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
207	Early impairment of left ventricular long-axis systolic function demonstrated by reduced atrioventricular plane displacement in patients with Marfan syndrome. European Journal of Echocardiography, 2008, 9, 605-613.	2.3	28
208	Left ventricular size determines tissue Doppler-derived longitudinal strain and strain rate. European Journal of Echocardiography, 2008, 10, 271-277.	2.3	93
209	Low-dose dobutamine stress echo to quantify the degree of remodelling after cardiac resynchronization therapy. European Heart Journal, 2008, 30, 950-958.	2.2	64
210	Interventricular interaction as a possible mechanism for the presence of a biphasic systolic velocity profile in normal left ventricular free walls. Heart, 2008, 94, 1058-1064.	2.9	14
211	Myocardial oedema: a forgotten entity essential to the understanding of regional function after ischaemia or reperfusion injury. Heart, 2008, 94, 1117-1119.	2.9	15
212	Velocity and deformation imaging for the assessment of myocardial dysfunction. European Journal of Echocardiography, 2008, 10, 216-226.	2.3	150
213	A new echocardiographic approach for the detection of non-ischaemic fibrosis in hypertrophic myocardium. European Heart Journal, 2007, 28, 3020-3026.	2.2	90
214	Reduced Force Generating Capacity in Myocytes From Chronically Ischemic, Hibernating Myocardium. Circulation Research, 2007, 100, 229-237.	4.5	29
215	The potential clinical role of ultrasonic strain and strain rate imaging in diagnosing acute rejection after heart transplantation. European Journal of Echocardiography, 2007, 8, 213-221.	2.3	76
216	Regional left ventricular deformation and geometry analysis provides insights in myocardial remodelling in mild to moderate hypertension. European Journal of Echocardiography, 2007, 9, 501-8.	2.3	109

#	ARTICLE	IF	CITATIONS
217	Analysis of Doppler Ultrasound Outflow Profiles for the Detection of changes in Cardiac Function. Proc Int Symp Image Signal Process Anal, 2007, , .	0.0	1
218	Full or pressure limited reperfusion of an acute myocardial infarct results in a different wall thickness and deformation of the distal myocardium â€œ Implications for clinical reperfusion strategies. European Journal of Echocardiography, 2007, 9, 458-65.	2.3	5
219	Investigating Cardiac Function Using Motion and Deformation Analysis in the Setting of Coronary Artery Disease. Circulation, 2007, 116, 2453-2464.	1.6	109
220	Letter by Weidemann et al Regarding Article, â€œGlobal Diastolic Strain Rate for the Assessment of Left Ventricular Relaxation and Filling Pressureâ€. Circulation, 2007, 116, e368; author reply e369.	1.6	1
221	An integrated framework for the assessment of cardiac function - Description and illustrated applications. Proc Int Symp Image Signal Process Anal, 2007, , .	0.0	1
222	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
223	Changes in systolic left ventricular function in isolated mitral regurgitation. A strain rate imaging study. European Heart Journal, 2007, 28, 2627-2636.	2.2	118
224	Regional Right Ventricular Dysfunction in Chronic Pulmonary Hypertension. Journal of the American Society of Echocardiography, 2007, 20, 1172-1180.	2.8	117
225	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
226	Acute Cardiac Functional and Morphological Changes After Anthracycline Infusions in Children. American Journal of Cardiology, 2007, 99, 974-977.	1.6	135
227	Sequential Changes of Myocardial Function During Acute Myocardial Infarction, in the Early and Chronic Phase After Coronary Intervention Described by Ultrasonic Strain Rate Imaging. Journal of the American Society of Echocardiography, 2006, 19, 839-847.	2.8	30
228	How to distinguish between ischemic and nonischemic postsystolic thickening: A strain rate imaging study. Ultrasound in Medicine and Biology, 2006, 32, 53-59.	1.5	28
229	Numerical assessment of the impact of a flow wire on its velocity measurements. Ultrasound in Medicine and Biology, 2006, 32, 1025-1036.	1.5	2
230	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
231	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
232	New aspects of the ventricular septum and its function: an echocardiographic study. Heart, 2005, 91, 1343-1348.	2.9	62
233	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
234	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

#	ARTICLE	IF	CITATIONS
235	The Evaluation of Pulmonary Hypertension Using Right Ventricular Myocardial Isovolumic Relaxation Time. <i>Journal of the American Society of Echocardiography</i> , 2005, 18, 1113-1120.	2.8	42
236	Alterations in excitation-contraction coupling in chronically ischemic or hibernating myocardium. <i>Experimental and Clinical Cardiology</i> , 2005, 10, 142-5.	1.3	4
237	Strain rate imaging in CRT candidates. <i>European Heart Journal Supplements</i> , 2004, 6, D16-D24.	0.1	2
238	The European Heart Journal: a European journal with a global impact in cardiovascular medicine. <i>European Heart Journal</i> , 2004, 25, 1382-1384.	2.2	11
239	RF-based two-dimensional cardiac strain estimation: a validation study in a tissue-mimicking phantom. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 1537-1546.	3.0	73
240	Cellular Mechanisms of Contractile Dysfunction in Hibernating Myocardium. <i>Circulation Research</i> , 2004, 94, 794-801.	4.5	62
241	Letter Regarding Article by Yu et al, "Tissue Doppler Imaging Is Superior to Strain Rate Imaging and Postsystolic Shortening on the Prediction of Reverse Remodeling in Both Ischemic and Nonischemic Heart Failure After Cardiac Resynchronization Therapy". <i>Circulation</i> , 2004, 110, e498-9; author reply e498-9.	1.6	5
242	The sequential changes in myocardial thickness and thickening which occur during acute transmural infarction, infarct reperfusion and the resultant expression of reperfusion injury. <i>European Heart Journal</i> , 2004, 25, 794-803.	2.2	87
243	Late post-repair ventricular function in patients with origin of the left main coronary artery from the pulmonary trunk. <i>American Journal of Cardiology</i> , 2004, 93, 506-508.	1.6	35
244	Quantifying myocardial deformation throughout the cardiac cycle: a comparison of ultrasound strain rate, grey-scale M-mode and magnetic resonance imaging. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 591-598.	1.5	51
245	Strain and strain rate imaging: a new clinical approach to quantifying regional myocardial function. <i>Journal of the American Society of Echocardiography</i> , 2004, 17, 788-802.	2.8	575
246	Regional right and left ventricular function after the Senning operation: an ultrasonic study of strain rate and strain. <i>Cardiology in the Young</i> , 2004, 14, 255-264.	0.8	66
247	Quantification of regional right and left ventricular function by ultrasonic strain rate and strain indexes in Friedreich's ataxia. <i>American Journal of Cardiology</i> , 2003, 91, 622-626.	1.6	55
248	One-dimensional ultrasonic strain and strain rate imaging: a new approach to the quantitation of regional myocardial function in patients with aortic stenosis. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 1085-1092.	1.5	58
249	Comparison of time-domain displacement estimators for two-dimensional RF tracking. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 1177-1186.	1.5	84
250	Towards ultrasound cardiac image segmentation based on the radiofrequency signal. <i>Medical Image Analysis</i> , 2003, 7, 353-367.	11.6	49
251	Influence of work rate on the determinants of oxygen deficit during short-term submaximal exercise: implications for clinical research*. <i>Clinical Physiology and Functional Imaging</i> , 2003, 23, 42-49.	1.2	3
252	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?. <i>Journal of the American Society of Echocardiography</i> , 2003, 16, 299-308.	2.8	51

#	ARTICLE	IF	CITATIONS
253	Identification of acutely ischemic myocardium using ultrasonic strain measurements. Journal of the American College of Cardiology, 2003, 41, 810-819.	2.8	177
254	Cardiac resynchronization therapy can reverse abnormal myocardial strain distribution in patients with heart failure and left bundle branch block. Journal of the American College of Cardiology, 2003, 42, 486-494.	2.8	219
255	Defining the Transmurality of a Chronic Myocardial Infarction by Ultrasonic Strain-Rate Imaging. Circulation, 2003, 107, 883-888.	1.6	170
256	Why Ischemic Hearts Respond Less to Cardiac Resynchronisation Therapy. A Modeling Study. Lecture Notes in Computer Science, 2003, , 287-294.	1.3	4
257	The Potential Value of Ultrasonic Deformation Measurement in Differentiating Regional Ischaemic Substrates During Dobutamine Stress Echocardiography. European Journal of Echocardiography, 2003, 4, 23-28.	2.3	4
258	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
259	The Relationship between Regional Integrated Backscatter Levels and Regional Strain in Normal, Acutely Ischemic, and Reperfused Myocardium. Lecture Notes in Computer Science, 2003, , 278-286.	1.3	0
260	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
261	Myocardial function defined by strain rate and strain during alterations in inotropic states and heart rate. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H792-H799.	3.2	353
262	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
263	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
264	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
265	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
266	Can strain rate and strain quantify changes in regional systolic function during dobutamine infusion, B-blockade, and atrial pacing? Implications for quantitative stress echocardiography. Journal of the American Society of Echocardiography, 2002, 15, 416-424.	2.8	136
267	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
268	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
269	Quantification of regional right and left ventricular function by ultrasonic strain rate and strain indexes after surgical repair of tetralogy of fallot. American Journal of Cardiology, 2002, 90, 133-138.	1.6	145
270	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

#	ARTICLE	IF	CITATIONS
271	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
272	Doppler myocardial imaging. A new tool to assess regional inhomogeneity in cardiac function. Basic Research in Cardiology, 2001, 96, 595-605.	5.9	71
273	Is there a change in myocardial nonlinearity during the cardiac cycle?. Ultrasound in Medicine and Biology, 2001, 27, 389-398.	1.5	6
274	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
275	Noninvasive Quantification of the Contractile Reserve of Stunned Myocardium by Ultrasonic Strain Rate and Strain. Circulation, 2001, 104, 1059-1065.	1.6	183
276	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
277	Two-Dimensional Ultrasonic Strain Rate Measurement of the Human Heart in Vivo. Lecture Notes in Computer Science, 2001, , 47-52.	1.3	3
278	Post-Systolic Thickening in Ischaemic Myocardium: A Simple Mathematical Model for Simulating Regional Deformation. Lecture Notes in Computer Science, 2001, , 134-139.	1.3	17
279	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
280	WIE ENTSTEHEN HARMONISCHE OBERWELLEN IM KONTRASTMITTEL-ULTRASCHALL ?. Biomedizinische Technik, 2000, 45, 59-60.	0.8	0
281	Regional Strain and Strain Rate Measurements by Cardiac Ultrasound: Principles, Implementation and Limitations. European Journal of Echocardiography, 2000, 1, 154-170.	2.3	864
282	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
283	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
284	Robustness of integrated backscatter for myocardial tissue characterization. Ultrasound in Medicine and Biology, 1999, 25, 95-103.	1.5	12
285	Tissue Poppler Echocardiography.. Echocardiography, 1999, 16, 445-453.	0.9	43
286	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
287	Importance of flow/metabolism studies in predicting late recovery of function following reperfusion in patients with acute myocardial infarction. European Heart Journal, 1997, 18, 954-962.	2.2	29
288	Values for Mitral Valve Annulus Dimensions in Normals and Patients with Mitral Regurgitation. Echocardiography, 1997, 14, 529-533.	0.9	9

#	ARTICLE	IF	CITATIONS
289	The Hemodynamic Influence of the Ischiocavernosus Muscles on Erectile Function. Journal of Urology, 1996, 156, 986-990.	0.4	21
290	Can dobutamine echocardiography distinguish necrotic from ischemic myocardium, early after myocardial infarction?. International Journal of Cardiovascular Imaging, 1995, 11, 171-175.	0.6	0
291	An open environment for quantitative analysis of left ventricular function using ultrasound images. Medical Informatics = Medecine Et Informatique, 1995, 20, 113-120.	0.8	1
292	Acquisition and processing of the radio-frequency signal in echocardiography: A new global approach. Ultrasound in Medicine and Biology, 1994, 20, 167-176.	1.5	21
293	Combining fast response and low cost in an Intensive Care Unit viewing station. Journal of Digital Imaging, 1994, 7, 91-94.	2.9	5
294	Determination of left ventricular volume by two-dimensional echocardiography: comparison with magnetic resonance imaging. European Heart Journal, 1994, 15, 1070-1073.	2.2	36
295	Automated contour detection of the left ventricle in short axis view in 2D echocardiograms. Machine Vision and Applications, 1993, 6, 1-9.	2.7	23
296	On-Line quantification of left ventricular function by automatic boundary detection and ultrasonic backscatter imaging. American Journal of Cardiology, 1993, 72, 359-362.	1.6	22
297	A new method for two-dimensional myocardial strain estimation by ultrasound: an in-vivo comparison with sonomicrometry. , 0, , .		2
298	Calculation of strain values from strain rate curves: how should this be done?. , 0, , .		7
299	A simulation study on the influence of dispersion on nonlinear wave propagation [in US contrast imaging]. , 0, , .		0
300	Evaluation of transmural myocardial deformation and reflectivity characteristics. , 0, , .		17
301	Two-dimensional myocardial strain rate estimation using "snakes". , 0, , .		0
302	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
303	The response of regional integrated backscatter levels and regional strain to inotropic stimulation and acute ischemia. , 0, , .		0
304	Ultrasonic strain and strain rate imaging for the assessment of regional myocardial function in mice. , 0, , .		5
305	A parametric study on processing parameters for two-dimensional cardiac strain estimation: an in-vivo study. , 0, , .		2
306	Exploiting the dependency of the doppler spectrum on the position and insonation direction of an intra-vascular doppler wire to estimate volumetric flow. , 0, , .		0