

Bart H Bijnen

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293
papers

10,841
citations

56
h-index

95
g-index

318
ext. papers

12,404
ext. citations

4.6
avg, IF

5.78
L-index

#	Paper	IF	Citations
293	Regional strain and strain rate measurements by cardiac ultrasound: principles, implementation and limitations. <i>European Journal of Echocardiography</i> , 2000 , 1, 154-70		705
292	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	5.8	500
291	Myocardial function defined by strain rate and strain during alterations in inotropic states and heart rate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H792-9	5.2	306
290	Fetal growth restriction results in remodeled and less efficient hearts in children. <i>Circulation</i> , 2010 , 121, 2427-36	16.7	289
289	Experimental validation of a new ultrasound method for the simultaneous assessment of radial and longitudinal myocardial deformation independent of insonation angle. <i>Circulation</i> , 2005 , 112, 2157-62	16.7	275
288	Long-term outcome of aortic dissection with patent false lumen: predictive role of entry tear size and location. <i>Circulation</i> , 2012 , 125, 3133-41	16.7	247
287	Can natural strain and strain rate quantify regional myocardial deformation? A study in healthy subjects. <i>Ultrasound in Medicine and Biology</i> , 2001 , 27, 1087-97	3.5	222
286	Cardiac resynchronization therapy can reverse abnormal myocardial strain distribution in patients with heart failure and left bundle branch block. <i>Journal of the American College of Cardiology</i> , 2003 , 42, 486-94	15.1	192
285	Quantification of regional left and right ventricular radial and longitudinal function in healthy children using ultrasound-based strain rate and strain imaging. <i>Journal of the American Society of Echocardiography</i> , 2002 , 15, 20-8	5.8	187
284	Toward understanding response to cardiac resynchronization therapy: left ventricular dyssynchrony is only one of multiple mechanisms. <i>European Heart Journal</i> , 2009 , 30, 940-9	9.5	166
283	Identification of acutely ischemic myocardium using ultrasonic strain measurements. A clinical study in patients undergoing coronary angioplasty. <i>Journal of the American College of Cardiology</i> , 2003 , 41, 810-9	15.1	161
282	Noninvasive quantification of the contractile reserve of stunned myocardium by ultrasonic strain rate and strain. <i>Circulation</i> , 2001 , 104, 1059-65	16.7	161
281	Myocardial dysfunction late after low-dose anthracycline treatment in asymptomatic pediatric patients. <i>Journal of the American Society of Echocardiography</i> , 2007 , 20, 1351-8	5.8	153
280	Defining the transmural extent of a chronic myocardial infarction by ultrasonic strain-rate imaging: implications for identifying intramural viability: an experimental study. <i>Circulation</i> , 2003 , 107, 883-8	16.7	147
279	Two-dimensional ultrasonic strain rate measurement of the human heart in vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 281-6	3.2	143
278	Feasibility of strain and strain rate imaging for the assessment of regional left atrial deformation: a study in normal subjects. <i>European Journal of Echocardiography</i> , 2006 , 7, 199-208		142
277	Quantification of regional right and left ventricular function by ultrasonic strain rate and strain indexes after surgical repair of tetralogy of Fallot. <i>American Journal of Cardiology</i> , 2002 , 90, 133-8	3	129

276	Velocity and deformation imaging for the assessment of myocardial dysfunction. <i>European Journal of Echocardiography</i> , 2009 , 10, 216-26		126
275	Can strain rate and strain quantify changes in regional systolic function during dobutamine infusion, B-blockade, and atrial pacing—implications for quantitative stress echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2002 , 15, 416-24	5.8	120
274	Quantification of the spectrum of changes in regional myocardial function during acute ischemia in closed chest pigs: an ultrasonic strain rate and strain study. <i>Journal of the American Society of Echocardiography</i> , 2001 , 14, 874-84	5.8	120
273	Acute cardiac functional and morphological changes after Anthracycline infusions in children. <i>American Journal of Cardiology</i> , 2007 , 99, 974-7	3	112
272	Effect of combined systolic and diastolic functional parameter assessment for differentiation of cardiac amyloidosis from other causes of concentric left ventricular hypertrophy. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 1066-72	3.9	109
271	Cardiovascular programming in children born small for gestational age and relationship with prenatal signs of severity. <i>American Journal of Obstetrics and Gynecology</i> , 2012 , 207, 121.e1-9	6.4	107
270	Regional right ventricular dysfunction in chronic pulmonary hypertension. <i>Journal of the American Society of Echocardiography</i> , 2007 , 20, 1172-80	5.8	106
269	Acute changes in systolic and diastolic events during clinical coronary angioplasty: a comparison of regional velocity, strain rate, and strain measurement. <i>Journal of the American Society of Echocardiography</i> , 2002 , 15, 1-12	5.8	105
268	Clinical implication of mitral annular plane systolic excursion for patients with cardiovascular disease. <i>European Heart Journal Cardiovascular Imaging</i> , 2013 , 14, 205-12	4.1	104
267	Changes in systolic left ventricular function in isolated mitral regurgitation. A strain rate imaging study. <i>European Heart Journal</i> , 2007 , 28, 2627-36	9.5	104
266	Assisted reproductive technologies are associated with cardiovascular remodeling in utero that persists postnatally. <i>Circulation</i> , 2013 , 128, 1442-50	16.7	103
265	Gene mutations versus clinically relevant phenotypes: lyso-Gb3 defines Fabry disease. <i>Circulation: Cardiovascular Genetics</i> , 2014 , 7, 8-16		97
264	Regional left ventricular deformation and geometry analysis provides insights in myocardial remodelling in mild to moderate hypertension. <i>European Journal of Echocardiography</i> , 2008 , 9, 501-8		97
263	Echocardiographic strain and strain-rate imaging: a new tool to study regional myocardial function. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 1022-30	11.7	97
262	Early regional myocardial dysfunction in young patients with Duchenne muscular dystrophy. <i>Journal of the American Society of Echocardiography</i> , 2008 , 21, 1049-54	5.8	96
261	Investigating cardiac function using motion and deformation analysis in the setting of coronary artery disease. <i>Circulation</i> , 2007 , 116, 2453-64	16.7	92
260	Machine learning-based phenogrouping in heart failure to identify responders to cardiac resynchronization therapy. <i>European Journal of Heart Failure</i> , 2019 , 21, 74-85	12.3	90
259	The heart in Friedreich ataxia: definition of cardiomyopathy, disease severity, and correlation with neurological symptoms. <i>Circulation</i> , 2012 , 125, 1626-34	16.7	85

258	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. <i>European Heart Journal</i> , 2009 , 30, 662-70	9.5	81
257	Left ventricular size determines tissue Doppler-derived longitudinal strain and strain rate. <i>European Journal of Echocardiography</i> , 2009 , 10, 271-7		79
256	Can changes in systolic longitudinal deformation quantify regional myocardial function after an acute infarction? An ultrasonic strain rate and strain study. <i>Journal of the American Society of Echocardiography</i> , 2002 , 15, 723-30	5.8	77
255	A new echocardiographic approach for the detection of non-ischaeamic fibrosis in hypertrophic myocardium. <i>European Heart Journal</i> , 2007 , 28, 3020-6	9.5	74
254	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	9.5	68
253	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. <i>Journal of Vascular Surgery</i> , 2013 , 57, 464-474.e5	3.5	67
252	The role of echocardiographic deformation imaging in hypertrophic myopathies. <i>Nature Reviews Cardiology</i> , 2010 , 7, 384-96	14.8	67
251	Experimental assessment of a new research tool for the estimation of two-dimensional myocardial strain. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1509-13	3.5	67
250	Comparison of time-domain displacement estimators for two-dimensional RF tracking. <i>Ultrasound in Medicine and Biology</i> , 2003 , 29, 1177-86	3.5	66
249	Doppler myocardial imaging. A new tool to assess regional inhomogeneity in cardiac function. <i>Basic Research in Cardiology</i> , 2001 , 96, 595-605	11.8	66
248	Relation of circulating markers of fibrosis and progression of left and right ventricular dysfunction in hypertensive patients with heart failure. <i>Journal of Hypertension</i> , 2009 , 27, 2483-91	1.9	65
247	Effects of the purkinje system and cardiac geometry on biventricular pacing: a model study. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 1388-98	4.7	65
246	Fetal cardiovascular remodeling persists at 6 months in infants with intrauterine growth restriction. <i>Ultrasound in Obstetrics and Gynecology</i> , 2016 , 48, 349-56	5.8	64
245	A spatiotemporal statistical atlas of motion for the quantification of abnormal myocardial tissue velocities. <i>Medical Image Analysis</i> , 2011 , 15, 316-28	15.4	62
244	The potential clinical role of ultrasonic strain and strain rate imaging in diagnosing acute rejection after heart transplantation. <i>European Journal of Echocardiography</i> , 2007 , 8, 213-21		62
243	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, 1537-46	3.2	61
242	Myocardial deformation abnormalities in patients with aortic regurgitation: a strain rate imaging study. <i>European Journal of Echocardiography</i> , 2009 , 10, 112-9		58
241	Cellular mechanisms of contractile dysfunction in hibernating myocardium. <i>Circulation Research</i> , 2004 , 94, 794-801	15.7	58

240	Machine Learning Analysis of Left Ventricular Function to Characterize Heart Failure With Preserved Ejection Fraction. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11, e007138	3.9	57
239	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, 62-7	4.1	57
238	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, 255-64	1	57
237	Feasibility and reproducibility of a standard protocol for 2D speckle tracking and tissue Doppler-based strain and strain rate analysis of the fetal heart. <i>Fetal Diagnosis and Therapy</i> , 2012 , 32, 96-108	2.4	56
236	A fetal cardiovascular score to predict infant hypertension and arterial remodeling in intrauterine growth restriction. <i>American Journal of Obstetrics and Gynecology</i> , 2014 , 210, 552.e1-552.e22	6.4	55
235	Myocardial motion and deformation: What does it tell us and how does it relate to function?. <i>Fetal Diagnosis and Therapy</i> , 2012 , 32, 5-16	2.4	55
234	Mechanisms of postsystolic thickening in ischemic myocardium: mathematical modelling and comparison with experimental ischemic substrates. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 1963-70	3.5	55
233	Value of annular M-mode displacement vs tissue Doppler velocities to assess cardiac function in intrauterine growth restriction. <i>Ultrasound in Obstetrics and Gynecology</i> , 2013 , 42, 175-81	5.8	54
232	Postsystolic shortening by myocardial deformation imaging as a sign of cardiac adaptation to pressure overload in fetal growth restriction. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 781-7	3.9	53
231	Left atrial deformation predicts success of first and second percutaneous atrial fibrillation ablation. <i>Heart Rhythm</i> , 2015 , 12, 11-8	6.7	53
230	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, 1085-92	3.5	53
229	Low-dose dobutamine stress echo to quantify the degree of remodelling after cardiac resynchronization therapy. <i>European Heart Journal</i> , 2009 , 30, 950-8	9.5	51
228	Doppler tissue velocity, strain, and strain rate imaging with transesophageal echocardiography in the operating room: a feasibility study. <i>Journal of the American Society of Echocardiography</i> , 2002 , 15, 768-76	5.8	51
227	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, 622-6	3	48
226	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	5.8	46
225	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. <i>Europace</i> , 2012 , 14, 99-106	3.9	45
224	New aspects of the ventricular septum and its function: an echocardiographic study. <i>Heart</i> , 2005 , 91, 1343-8	5.1	44
223	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, 591-8	3.5	43

222	High-Sensitivity Troponin: A Clinical Blood Biomarker for Staging Cardiomyopathy in Fabry Disease. <i>Journal of the American Heart Association</i> , 2016 , 5,	6	42
221	Descriptive analysis of different phenotypes of cardiac remodeling in fetal growth restriction. <i>Ultrasound in Obstetrics and Gynecology</i> , 2017 , 50, 207-214	5.8	42
220	Influence of breastfeeding and postnatal nutrition on cardiovascular remodeling induced by fetal growth restriction. <i>Pediatric Research</i> , 2016 , 79, 100-6	3.2	41
219	Persistence of Cardiac Remodeling in Preadolescents With Fetal Growth Restriction. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	41
218	GIMIAs: An Open Source Framework for Efficient Development of Research Tools and Clinical Prototypes. <i>Lecture Notes in Computer Science</i> , 2009 , 417-426	0.9	41
217	Mechanical abnormalities detected with conventional echocardiography are associated with response and midterm survival in CRT. <i>JACC: Cardiovascular Imaging</i> , 2014 , 7, 969-79	8.4	40
216	Patterns of maternal vascular remodeling and responsiveness in early- versus late-onset preeclampsia. <i>American Journal of Obstetrics and Gynecology</i> , 2013 , 209, 558.e1-558.e14	6.4	40
215	Towards ultrasound cardiac image segmentation based on the radiofrequency signal. <i>Medical Image Analysis</i> , 2003 , 7, 353-67	15.4	39
214	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. <i>Journal of the American Society of Echocardiography</i> , 2001 , 14, 691-7	5.8	39
213	Usefulness of an Implantable Loop Recorder to Detect Clinically Relevant Arrhythmias in Patients With Advanced Fabry Cardiomyopathy. <i>American Journal of Cardiology</i> , 2016 , 118, 264-74	3	38
212	Left atrial size and function by three-dimensional echocardiography to predict arrhythmia recurrence after first and repeated ablation of atrial fibrillation. <i>European Heart Journal Cardiovascular Imaging</i> , 2014 , 15, 515-22	4.1	38
211	Atrial functional and geometrical remodeling in highly trained male athletes: for better or worse?. <i>European Journal of Applied Physiology</i> , 2014 , 114, 1143-52	3.4	37
210	Quantitative dobutamine stress echocardiography for the early detection of cardiac allograft vasculopathy in heart transplant recipients. <i>Heart</i> , 2008 , 94, e3	5.1	37
209	Tissue Doppler Echocardiography: Historical Perspective and Technological Considerations. <i>Echocardiography</i> , 1999 , 16, 445-453	1.5	37
208	The evaluation of pulmonary hypertension using right ventricular myocardial isovolumic relaxation time. <i>Journal of the American Society of Echocardiography</i> , 2005 , 18, 1113-20	5.8	36
207	Mechanisms of right ventricular electromechanical dyssynchrony and mechanical inefficiency in children after repair of tetralogy of fallot. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 610-8	3.9	35
206	Myocardial deformation analysis in Chagas heart disease with the use of speckle tracking echocardiography. <i>Journal of Cardiac Failure</i> , 2011 , 17, 1028-34	3.3	35
205	A computational model of the fetal circulation to quantify blood redistribution in intrauterine growth restriction. <i>PLoS Computational Biology</i> , 2014 , 10, e1003667	5	33

204	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, 506-8	3	33
203	Characterization of myocardial motion patterns by unsupervised multiple kernel learning. <i>Medical Image Analysis</i> , 2017 , 35, 70-82	15.4	32
202	Aortic and carotid intima-media thickness in term small-for-gestational-age newborns and relationship with prenatal signs of severity. <i>Ultrasound in Obstetrics and Gynecology</i> , 2014 , 43, 625-31	5.8	31
201	Morphologic pattern of late gadolinium enhancement in Takotsubo cardiomyopathy detected by early cardiovascular magnetic resonance. <i>Clinical Cardiology</i> , 2011 , 34, 178-82	3.3	31
200	Atrial apoptosis and fibrosis adversely affect atrial conduit, reservoir and contractile functions. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2014 , 19, 223-30; discussion 230	1.8	30
199	Biventricular pacing in hypertrophic obstructive cardiomyopathy: a pilot study. <i>Heart Rhythm</i> , 2011 , 8, 221-7	6.7	30
198	Determination of left ventricular volume by two-dimensional echocardiography: comparison with magnetic resonance imaging. <i>European Heart Journal</i> , 1994 , 15, 1070-3	9.5	30
197	Whole heart detailed and quantitative anatomy, myofibre structure and vasculature from X-ray phase-contrast synchrotron radiation-based micro computed tomography. <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 732-741	4.1	29
196	Predictive value of assessing diastolic strain rate on survival in cardiac amyloidosis patients with preserved ejection fraction. <i>PLoS ONE</i> , 2014 , 9, e115910	3.7	28
195	High frame rate myocardial integrated backscatter. Does this change our understanding of this acoustic parameter?. <i>European Journal of Echocardiography</i> , 2000 , 1, 32-41		27
194	Prognostic Value of Left Atrial Strain in Outpatients with De Novo Heart Failure. <i>Journal of the American Society of Echocardiography</i> , 2016 , 29, 1035-1042.e1	5.8	27
193	Cardiovascular Benefits of Moderate Exercise Training in Marfan Syndrome: Insights From an Animal Model. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	26
192	Early impairment of left ventricular long-axis systolic function demonstrated by reduced atrioventricular plane displacement in patients with Marfan syndrome. <i>European Journal of Echocardiography</i> , 2008 , 9, 605-13		26
191	Reduced force generating capacity in myocytes from chronically ischemic, hibernating myocardium. <i>Circulation Research</i> , 2007 , 100, 229-37	15.7	26
190	Sequential changes of myocardial function during acute myocardial infarction, in the early and chronic phase after coronary intervention described by ultrasonic strain rate imaging. <i>Journal of the American Society of Echocardiography</i> , 2006 , 19, 839-47	5.8	26
189	Changes in Right Ventricular Shape and Deformation Following Coronary Artery Bypass Surgery-Insights from Echocardiography with Strain Rate and Magnetic Resonance Imaging. <i>Echocardiography</i> , 2015 , 32, 1809-20	1.5	25
188	Validation of echocardiographic left atrial parameters in atrial fibrillation using the index beat of preceding cardiac cycles of equal duration. <i>Journal of the American Society of Echocardiography</i> , 2011 , 24, 1141-7	5.8	25
187	Biventricular and atrial diastolic function assessment using conventional echocardiography and tissue-Doppler imaging in adults with Marfan syndrome. <i>European Journal of Echocardiography</i> , 2009 , 10, 947-55		25

186	How to distinguish between ischemic and nonischemic postsystolic thickening: a strain rate imaging study. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 53-9	3.5	25
185	Acute, Exercise Dose-Dependent Impairment in Atrial Performance During an Endurance Race: 2D Ultrasound Speckle-Tracking Strain Analysis. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 1380-1388	8.4	25
184	Cardiac motion estimation by joint alignment of tagged MRI sequences. <i>Medical Image Analysis</i> , 2012 , 16, 339-50	15.4	24
183	Importance of flow/metabolism studies in predicting late recovery of function following reperfusion in patients with acute myocardial infarction. <i>European Heart Journal</i> , 1997 , 18, 954-62	9.5	24
182	Ultrasonic strain/strain rate imaging--a new clinical tool to evaluate the transplanted heart. <i>European Journal of Echocardiography</i> , 2005 , 6, 186-95		24
181	Complex Congenital Heart Disease Associated With Disordered Myocardial Architecture in a Midtrimester Human Fetus. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11, e007753	3.9	24
180	How to detect early left atrial remodelling and dysfunction in mild-to-moderate hypertension. <i>Journal of Hypertension</i> , 2009 , 27, 2086-93	1.9	23
179	Differential atrial performance at rest and exercise in athletes: Potential trigger for developing atrial dysfunction?. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2016 , 26, 1444-1454	4.6	23
178	Influence of gender on right ventricle adaptation to endurance exercise: an ultrasound two-dimensional speckle-tracking stress study. <i>European Journal of Applied Physiology</i> , 2017 , 117, 389-396	3.4	22
177	Impaired biventricular deformation in Marfan syndrome: a strain and strain rate study in adult unoperated patients. <i>Echocardiography</i> , 2011 , 28, 416-30	1.5	22
176	Left Ventricular Geometry and Blood Pressure as Predictors of Adverse Progression of Fabry Cardiomyopathy. <i>PLoS ONE</i> , 2015 , 10, e0140627	3.7	22
175	Zidovudine treatment in HIV-infected pregnant women is associated with fetal cardiac remodelling. <i>Aids</i> , 2016 , 30, 1393-401	3.5	22
174	Gender influence on the adaptation of atrial performance to training. <i>European Journal of Sport Science</i> , 2017 , 17, 720-726	3.9	21
173	Feasibility of estimating regional mechanical properties of cerebral aneurysms in vivo. <i>Medical Physics</i> , 2010 , 37, 1689-706	4.4	21
172	Intrauterine growth restriction is associated with cardiac ultrastructural and gene expression changes related to the energetic metabolism in a rabbit model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H1752-60	5.2	20
171	Assessment of aortic stiffness in marfan syndrome using two-dimensional and Doppler echocardiography. <i>Echocardiography</i> , 2011 , 28, 29-37	1.5	20
170	On-line quantification of left ventricular function by automatic boundary detection and ultrasonic backscatter imaging. <i>American Journal of Cardiology</i> , 1993 , 72, 359-62	3	20
169	Machine Learning in Fetal Cardiology: What to Expect. <i>Fetal Diagnosis and Therapy</i> , 2020 , 47, 363-372	2.4	20

168	The septal bulge--an early echocardiographic sign in hypertensive heart disease. <i>Journal of the American Society of Hypertension</i> , 2016 , 10, 70-80		20
167	Severity of structural and functional right ventricular remodeling depends on training load in an experimental model of endurance exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 313, H459-H468	5.2	19
166	Inter-individual variability in right ventricle adaptation after an endurance race. <i>European Journal of Preventive Cardiology</i> , 2016 , 23, 1114-24	3.9	19
165	Reliability of quantitative elastography of the uterine cervix in at-term pregnancies. <i>Journal of Perinatal Medicine</i> , 2013 , 41, 421-7	2.7	19
164	Impact of regional left ventricular function on outcome for patients with AL amyloidosis. <i>PLoS ONE</i> , 2013 , 8, e56923	3.7	19
163	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. <i>European Heart Journal Cardiovascular Imaging</i> , 2012 , 13, 745-55	4.1	19
162	The calculation of the transient near and far field of a baffled piston using low sampling frequencies. <i>Journal of the Acoustical Society of America</i> , 1997 , 102, 78-86	2.2	19
161	Large Diffeomorphic FFD Registration for Motion and Strain Quantification from 3D-US Sequences. <i>Lecture Notes in Computer Science</i> , 2009 , 437-446	0.9	19
160	Adverse ventricular-ventricular interactions in right ventricular pressure load: Insights from pediatric pulmonary hypertension versus pulmonary stenosis. <i>Physiological Reports</i> , 2016 , 4, e12833	2.6	19
159	Postnatal persistence of fetal cardiovascular remodelling associated with assisted reproductive technologies: a cohort study. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2019 , 126, 291-298	3.7	19
158	Realistic simulation of cardiac magnetic resonance studies modeling anatomical variability, trabeculae, and papillary muscles. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 280-8	4.4	18
157	Permanent cardiac sarcomere changes in a rabbit model of intrauterine growth restriction. <i>PLoS ONE</i> , 2014 , 9, e113067	3.7	18
156	Comprehensive Analysis of Animal Models of Cardiovascular Disease using Multiscale X-Ray Phase Contrast Tomography. <i>Scientific Reports</i> , 2019 , 9, 6996	4.9	17
155	False Lumen Flow Patterns and their Relation with Morphological and Biomechanical Characteristics of Chronic Aortic Dissections. Computational Model Compared with Magnetic Resonance Imaging Measurements. <i>PLoS ONE</i> , 2017 , 12, e0170888	3.7	17
154	Experimentally induced intrauterine growth restriction in rabbits leads to differential remodelling of left versus right ventricular myocardial microstructure. <i>Histochemistry and Cell Biology</i> , 2017 , 148, 557-567	2.4	17
153	Validation of numerical flow simulations against in vitro phantom measurements in different type B aortic dissection scenarios. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 805-15	2.1	17
152	Automated contour detection of the left ventricle in short axis view in 2D echocardiograms. <i>Machine Vision and Applications</i> , 1993 , 6, 1-9	2.8	17
151	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	5.8	17

150	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	2.5	16
149	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, 289-296	3.9	16
148	The Hemodynamic Influence of the Ischiocavernosus Muscles on Erectile Function. <i>Journal of Urology</i> , 1996 , 156, 986-990	2.5	15
147	Relationship between the left ventricular size and the amount of trabeculations. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e2939	2.6	15
146	Development of a swine model of left bundle branch block for experimental studies of cardiac resynchronization therapy. <i>Journal of Cardiovascular Translational Research</i> , 2013 , 6, 616-22	3.3	14
145	Differentiation between fresh and old left ventricular thrombi by deformation imaging. <i>Circulation: Cardiovascular Imaging</i> , 2012 , 5, 667-75	3.9	14
144	Acquisition and processing of the radio-frequency signal in echocardiography: a new global approach. <i>Ultrasound in Medicine and Biology</i> , 1994 , 20, 167-76	3.5	14
143	Main Patterns of Fetal Cardiac Remodeling. <i>Fetal Diagnosis and Therapy</i> , 2020 , 47, 337-344	2.4	14
142	Basal Ventricular Septal Hypertrophy in Systemic Hypertension. <i>American Journal of Cardiology</i> , 2020 , 125, 1339-1346	3	13
141	The feasibility of ultrasonic regional strain and strain rate imaging in quantifying dobutamine stress echocardiography. <i>European Journal of Echocardiography</i> , 2003 , 4, 81-91		13
140	Post-Systolic Thickening in Ischaemic Myocardium: A Simple Mathematical Model for Simulating Regional Deformation. <i>Lecture Notes in Computer Science</i> , 2001 , 134-139	0.9	13
139	Maternal subclinical vascular changes in fetal growth restriction with and without pre-eclampsia. <i>Ultrasound in Obstetrics and Gynecology</i> , 2015 , 46, 706-12	5.8	12
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27	A new method for two-dimensional myocardial strain estimation by ultrasound: an in-vivo comparison with sonomicrometry		1
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8	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	
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4	The Purkinje System and Cardiac Geometry: Assessing Their Influence on the Paced Heart. <i>Lecture Notes in Computer Science</i> , 2009 , 68-77	0.9
3	Exercise Induced Inter-individual Variation of Right Ventricular Pressures: Simulations Using a Modular Model of the Cardiovascular System. <i>Lecture Notes in Computer Science</i> , 2013 , 336-344	0.9
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