

Bart H Bijnen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Valve Flattening with Functional Biomarkers for the Assessment of Mitral Valve Repair. <i>Lecture Notes in Computer Science</i> , 2022 , 169-178	0.9	0
292	Machine Learning for Clinical Decision-Making: Challenges and Opportunities in Cardiovascular Imaging.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 765693	5.4	2
291	Septal curvature as a robust and reproducible marker for basal septal hypertrophy. <i>Journal of Hypertension</i> , 2021 , 39, 1421-1428	1.9	4
290	Right Ventricular Global and Regional Remodeling in American-Style Football Athletes: A Longitudinal 3D Echocardiographic Study. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3357	2.6	0
289	Etiology-Discriminative Multimodal Imaging of Left Ventricular Hypertrophy and Synchrotron-Based Assessment of Microstructural Tissue Remodeling. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 670734	5.4	1
288	Volumetric parcellation of the cardiac right ventricle for regional geometric and functional assessment. <i>Medical Image Analysis</i> , 2021 , 71, 102044	15.4	2
287	Automated Pattern Recognition in Whole-Cardiac Cycle Echocardiographic Data: Capturing Functional Phenotypes with Machine Learning. <i>Journal of the American Society of Echocardiography</i> , 2021 , 34, 1170-1183	5.8	5
286	Comprehensive assessment of myocardial remodeling in ischemic heart disease by synchrotron propagation based X-ray phase contrast imaging. <i>Scientific Reports</i> , 2021 , 11, 14020	4.9	1
285	Exercise Capacity in Young Adults Born Small for Gestational Age. <i>JAMA Cardiology</i> , 2021 , 6, 1308-1316	16.2	5
284	Distribution of myocardial work in arterial hypertension: insights from non-invasive left ventricular pressure-strain relations. <i>International Journal of Cardiovascular Imaging</i> , 2021 , 37, 145-154	2.5	11
283	Integration of artificial intelligence into clinical patient management: focus on cardiac imaging. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2021 , 74, 72-80	0.7	1
282	La integraci3n de la inteligencia artificial en el abordaje cl3nico del paciente: enfoque en la imagen cardiaca. <i>Revista Espanola De Cardiologia</i> , 2021 , 74, 72-80	1.5	5
281	Understanding right ventricular dyssynchrony: Its myriad determinants and clinical relevance. <i>Experimental Physiology</i> , 2021 , 106, 797-800	2.4	
280	Postsystolic thickening is a potential new clinical sign of injured myocardium in marfan syndrome. <i>Scientific Reports</i> , 2021 , 11, 15790	4.9	0
279	Towards Mesh-Free Patient-Specific Mitral Valve Modeling. <i>Lecture Notes in Computer Science</i> , 2021 , 66-75	0.9	1
278	Comprehensive data integration-Toward a more personalized assessment of diastolic function. <i>Echocardiography</i> , 2020 , 37, 1926-1935	1.5	
277	Calibration of a fully coupled electromechanical meshless computational model of the heart with experimental data. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 364, 112869	5.7	4

276	Three-dimensional regional bi-ventricular shape remodeling is associated with exercise capacity in endurance athletes. <i>European Journal of Applied Physiology</i> , 2020 , 120, 1227-1235	3.4	5
275	Basal Ventricular Septal Hypertrophy in Systemic Hypertension. <i>American Journal of Cardiology</i> , 2020 , 125, 1339-1346	3	13
274	Analysis of nonstandardized stress echocardiography sequences using multiview dimensionality reduction. <i>Medical Image Analysis</i> , 2020 , 60, 101594	15.4	4
273	Machine Learning in Fetal Cardiology: What to Expect. <i>Fetal Diagnosis and Therapy</i> , 2020 , 47, 363-372	2.4	20
272	Variability in the Assessment of Myocardial Strain Patterns: Implications for Adequate Interpretation. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 244-254	3.5	4
271	Pulmonary transit of contrast during exercise is related to improved cardio-pulmonary performance in highly trained endurance athletes. <i>European Journal of Preventive Cardiology</i> , 2020 , 27, 1504-1514	3.9	2
270	Handling confounding variables in statistical shape analysis - application to cardiac remodelling. <i>Medical Image Analysis</i> , 2020 , 65, 101792	15.4	2
269	Main Patterns of Fetal Cardiac Remodeling. <i>Fetal Diagnosis and Therapy</i> , 2020 , 47, 337-344	2.4	14
268	Should the septum be included in the assessment of right ventricular longitudinal strain? An ultrasound two-dimensional speckle-tracking stress study. <i>International Journal of Cardiovascular Imaging</i> , 2019 , 35, 1853-1860	2.5	6
267	Breaking the state of the heart: meshless model for cardiac mechanics. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019 , 18, 1549-1561	3.8	11
266	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
265	Cardiac performance after an endurance open water swimming race. <i>European Journal of Applied Physiology</i> , 2019 , 119, 961-970	3.4	7
264	Structural coronary artery remodelling in the rabbit fetus as a result of intrauterine growth restriction. <i>PLoS ONE</i> , 2019 , 14, e0218192	3.7	3
263	Impact of Interventricular Interactions on Left Ventricular Function, Stroke Volume, and Exercise Capacity in Children and Adults With Ebstein's Anomaly. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 925-927	8.4	7
262	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
261	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
260	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
259	Remodeling of the cardiovascular circulation in fetuses of mothers with diabetes: A fetal computational model analysis. <i>Placenta</i> , 2018 , 63, 1-6	3.4	0

258	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	2	4
257	Fetal cardiac remodeling in twin pregnancy conceived by assisted reproductive technology. <i>Ultrasound in Obstetrics and Gynecology</i> , 2018 , 51, 94-100	5.8	8
256	Modeling liver electrical conductivity during hypertonic injection. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e2904	2.6	2
255	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	4.9	2
254	Quantification of the detailed cardiac left ventricular trabecular morphogenesis in the mouse embryo. <i>Medical Image Analysis</i> , 2018 , 49, 89-104	15.4	9
253	PPAR- δ agonists acutely inhibit Ca-independent PLA to reduce HO-induced contractions in aortae of spontaneously hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H681-H691	5.2	2
252	Heart rate reduction improves biventricular function and interactions in experimental pulmonary hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H542-H551	5.2	10
251	Added value of cardiac deformation imaging in differential diagnosis of left ventricular hypertrophy. <i>Global Cardiology Science & Practice</i> , 2018 , 2018, 21	0.7	2
250	Machine learning from fetal flow waveforms to predict adverse perinatal outcomes: a study protocol. <i>Gates Open Research</i> , 2018 , 2, 8	2.4	2
249	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	
248	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	
247	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
246	MicroCT imaging reveals differential 3D micro-scale remodelling of the murine aorta in ageing and Marfan syndrome. <i>Theranostics</i> , 2018 , 8, 6038-6052	12.1	7
245	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
244	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
243	Characterization of myocardial motion patterns by unsupervised multiple kernel learning. <i>Medical Image Analysis</i> , 2017 , 35, 70-82	15.4	32
242	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	2.4	5
241	Persistence of Cardiac Remodeling in Preadolescents With Fetal Growth Restriction. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	41

240	Quantitative Analysis of Electro-Anatomical Maps: Application to an Experimental Model of Left Bundle Branch Block/Cardiac Resynchronization Therapy. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2017 , 5, 1900215	3	9
239	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
238	Assessment of myocardial ischemia by strain dobutamine stress echocardiography and cardiac magnetic resonance perfusion imaging before and after coronary artery bypass grafting. <i>Echocardiography</i> , 2017 , 34, 557-566	1.5	5
237	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
236	Gender influence on the adaptation of atrial performance to training. <i>European Journal of Sport Science</i> , 2017 , 17, 720-726	3.9	21
235	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
234	A two dimensional electromechanical model of a cardiomyocyte to assess intra-cellular regional mechanical heterogeneities. <i>PLoS ONE</i> , 2017 , 12, e0182915	3.7	2
233	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
232	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
231	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
230	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
229	Patient independent representation of the detailed cardiac ventricular anatomy. <i>Medical Image Analysis</i> , 2017 , 35, 270-287	15.4	9
228	Differential effect of assisted reproductive technology and small-for-gestational age on fetal cardiac remodeling. <i>Ultrasound in Obstetrics and Gynecology</i> , 2017 , 50, 63-70	5.8	11
227	Characterizing the spectrum of right ventricular remodelling in response to chronic training. <i>International Journal of Cardiovascular Imaging</i> , 2017 , 33, 331-339	2.5	8
226	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
225	3D membrane segmentation and quantification of intact thick cells using cryo soft X-ray transmission microscopy: A pilot study. <i>PLoS ONE</i> , 2017 , 12, e0174324	3.7	4
224	Microstructural Analysis of Cardiac Endomyocardial Biopsies with Synchrotron Radiation-Based X-Ray Phase Contrast Imaging. <i>Lecture Notes in Computer Science</i> , 2017 , 23-31	0.9	5
223	Characterizing Patterns of Response During Mild Stress-Testing in Continuous Echocardiography Recordings Using a Multiview Dimensionality Reduction Technique. <i>Lecture Notes in Computer Science</i> , 2017 , 502-513	0.9	1

222	Assessment of Haemodynamic Remodeling in Fetal Aortic Coarctation Using a Lumped Model of the Circulation. <i>Lecture Notes in Computer Science</i> , 2017 , 471-480	0.9	1
221	Estimating 3D Ventricular Shape From 2D Echocardiography: Feasibility and Effect of Noise. <i>Lecture Notes in Computer Science</i> , 2017 , 450-460	0.9	
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	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
218	Comparison of Two Different Ultrasound Systems for the Evaluation of Tissue Doppler Velocities in Fetuses. <i>Fetal Diagnosis and Therapy</i> , 2016 , 40, 35-40	2.4	4
217	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
216	Heart morphology differences induced by intrauterine growth restriction and preterm birth measured on the ECG at preadolescent age. <i>Journal of Electrocardiology</i> , 2016 , 49, 401-9	1.4	6
215	Dyssynchronization reduces dynamic obstruction without affecting systolic function in patients with hypertrophic obstructive cardiomyopathy: a pilot study. <i>International Journal of Cardiovascular Imaging</i> , 2016 , 32, 1179-88	2.5	6
214	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
213	Zidovudine treatment in HIV-infected pregnant women is associated with fetal cardiac remodelling. <i>Aids</i> , 2016 , 30, 1393-401	3.5	22
212	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
211	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
210	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
209	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
208	La funci3n de la aur3cula izquierda est3 alterada en algunos pacientes con ictus criptog3nico: potenciales implicaciones en su evaluaci3n y tratamiento. <i>Revista Espanola De Cardiologia</i> , 2016 , 69, 650-658	1.5	11
207	Left Atrial Function Is Impaired in Some Patients With Stroke of Undetermined Etiology: Potential Implications for Evaluation and Therapy. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2016 , 69, 650-6	0.7	6
206	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
205	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

204	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
203	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, 1401-15	2.5	16
202	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, 1074-81	4.1	7
201	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, 981-9	3.4	9
200	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, 203-19	15.4	4
199	Interatrial Dyssynchrony May Contribute to Heart Failure Symptoms in Patients with Preserved Ejection Fraction. <i>Echocardiography</i> , 2015 , 32, 1655-61	1.5	6
198	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
197	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
196	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
195	Left atrial deformation predicts success of first and second percutaneous atrial fibrillation ablation. <i>Heart Rhythm</i> , 2015 , 12, 11-8	6.7	53
194	Assessment of wall elasticity variations on intraluminal haemodynamics in descending aortic dissections using a lumped-parameter model. <i>PLoS ONE</i> , 2015 , 10, e0124011	3.7	10
193	Left Ventricular Geometry and Blood Pressure as Predictors of Adverse Progression of Fabry Cardiomyopathy. <i>PLoS ONE</i> , 2015 , 10, e0140627	3.7	22
192	Assessment of Myofiber Orientation in High Resolution Phase-Contrast CT Images. <i>Lecture Notes in Computer Science</i> , 2015 , 111-119	0.9	6
191	Subject Independent Reference Frame for the Left Ventricular Detailed Cardiac Anatomy. <i>Lecture Notes in Computer Science</i> , 2015 , 240-247	0.9	1
190	Characterization of Myocardial Velocities by Multiple Kernel Learning: Application to Heart Failure with Preserved Ejection Fraction. <i>Lecture Notes in Computer Science</i> , 2015 , 65-73	0.9	1
189	Quantitative Analysis of Lead Position vs. Correction of Electrical Dyssynchrony in an Experimental Model of LBBB/CRT. <i>Lecture Notes in Computer Science</i> , 2015 , 74-82	0.9	
188	Quantification of Gaps in Ablation Lesions Around the Pulmonary Veins in Delayed Enhancement MRI. <i>Lecture Notes in Computer Science</i> , 2015 , 215-222	0.9	1
187	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

186	Septal flash predicts cardiac resynchronization therapy response in patients with permanent atrial fibrillation. <i>Europace</i> , 2014 , 16, 1342-9	3.9	11
185	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
184	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
183	Myocardial motion and deformation patterns in an experimental swine model of acute LBBB/CRT and chronic infarct. <i>International Journal of Cardiovascular Imaging</i> , 2014 , 30, 875-87	2.5	12
182	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
181	Integration of mechanical, structural and electrical imaging to understand response to cardiac resynchronization therapy. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2014 , 67, 813-21	0.7	2
180	Integraci3n de la imagen mec3nica, estructural y el3ctrica para entender la respuesta a la terapia de resincronizaci3n cardiaca. <i>Revista Espanola De Cardiologia</i> , 2014 , 67, 813-821	1.5	6
179	Improved myocardial motion estimation combining tissue Doppler and B-mode echocardiographic images. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 2098-106	11.7	5
178	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
177	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
176	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
175	Gene mutations versus clinically relevant phenotypes: lyso-Gb3 defines Fabry disease. <i>Circulation: Cardiovascular Genetics</i> , 2014 , 7, 8-16		97
174	Automated cardiac sarcomere analysis from second harmonic generation images. <i>Journal of Biomedical Optics</i> , 2014 , 19, 056010	3.5	8
173	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
172	Influence of dynamic obstruction and hypertrophy location on diastolic function in hypertrophic cardiomyopathy. <i>Journal of Cardiovascular Medicine</i> , 2014 , 15, 207-13	1.9	4
171	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
170	Permanent cardiac sarcomere changes in a rabbit model of intrauterine growth restriction. <i>PLoS ONE</i> , 2014 , 9, e113067	3.7	18
169	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

168	Absolute joint moments: a novel image similarity measure. <i>Eurasip Journal on Image and Video Processing</i> , 2013 , 2013,	2.5	2
167	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
166	Atlas Construction for Cardiac Velocity Profiles Segmentation Using a Lumped Computational Model of Circulatory System. <i>Lecture Notes in Computer Science</i> , 2013 , 89-96	0.9	
165	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
164	Effect of cardiac resynchronization therapy on left ventricular diastolic function: implications for clinical outcome. <i>Journal of Cardiac Failure</i> , 2013 , 19, 795-801	3.3	6
163	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
162	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
161	Using simple imaging markers to predict prognosis in patients with aortic valve stenosis and unacceptable high risk for operation. <i>American Journal of Cardiology</i> , 2013 , 112, 1819-27	3	4
160	Noncompaction cardiomyopathy is associated with mechanical dyssynchrony: a potential underlying mechanism for favorable response to cardiac resynchronization therapy. <i>Journal of Cardiac Failure</i> , 2013 , 19, 80-6	3.3	9
159	Assisted reproductive technologies are associated with cardiovascular remodeling in utero that persists postnatally. <i>Circulation</i> , 2013 , 128, 1442-50	16.7	103
158	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
157	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
156	Influence of atrioventricular interaction on mitral valve closure and left ventricular isovolumic contraction measured by tissue Doppler imaging. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 109-16	3.9	12
155	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
154	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
153	Impact of regional left ventricular function on outcome for patients with AL amyloidosis. <i>PLoS ONE</i> , 2013 , 8, e56923	3.7	19
152	Principles of 3D Echocardiographic Imaging 2013 , 1-10		1
151	Improving Clinical Translation of Cardiovascular Circulatory Models through an Intuitive Graphical User Interface to CircAdapt, Presenting Simulation Results as Clinical Images and Signals. <i>Lecture Notes in Computer Science</i> , 2013 , 345-354	0.9	2

150	Understanding Prenatal Brain Sparing by Flow Redistribution Based on a Lumped Model of the Fetal Circulation. <i>Lecture Notes in Computer Science</i> , 2013 , 123-131	0.9	2
149	Manifold Learning Characterization of Abnormal Myocardial Motion Patterns: Application to CRT-Induced Changes. <i>Lecture Notes in Computer Science</i> , 2013 , 450-457	0.9	1
148	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	
147	Cardiac Microstructure Estimation from Multi-photon Confocal Microscopy Images. <i>Lecture Notes in Computer Science</i> , 2013 , 80-88	0.9	1
146	Understanding Hemodynamics and Its Determinant Factors in Type B Aortic Dissections Using an Equivalent Lumped Model. <i>Lecture Notes in Computer Science</i> , 2013 , 375-382	0.9	
145	Myocardial motion estimation combining tissue doppler and B-mode echocardiographic images. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 484-91	0.9	2
144	Cardiac motion estimation by joint alignment of tagged MRI sequences. <i>Medical Image Analysis</i> , 2012 , 16, 339-50	15.4	24
143	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
142	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
141	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
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3	Calculation of strain values from strain rate curves: how should this be done?		2
2	Evaluation of transmural myocardial deformation and reflectivity characteristics		7
1	A new method for two-dimensional myocardial strain estimation by ultrasound: an in-vivo comparison with sonomicrometry		1