Alistair A Young

List of Publications by Year
in descending order

187	7,790	50566 48	66518 82
papers	citations	h-index	g-index

193	193	193	7819
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quality-Aware Cine Cardiac MRI Reconstruction andÂAnalysis fromÂUndersampled K-Space Data. Lecture Notes in Computer Science, 2022, , 12-20.	1.0	3
2	CardiSort: a convolutional neural network for cross vendor automated sorting of cardiac MR images. European Radiology, 2022, 32, 5907-5920.	2.3	3
3	A three-dimensional atlas of childâ€™s cardiac anatomy and the unique morphological alterations associated with obesity. European Heart Journal Cardiovascular Imaging, 2022, 23, 1645-1653.	0.5	13
4	Myocardial mesostructure and mesofunction. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 323, H257-H275.	1.5	9
5	Computational analysis of cardiac structure and function in congenital heart disease: Translating discoveries to clinical strategies. Journal of Computational Science, 2021, 52, 101211.	1.5	2
6	Sensitivity of Myocardial Stiffness Estimates to Inter-observer Variability in LV Geometric Modelling. Lecture Notes in Computer Science, 2021, , 287-295.	1.0	1
7	Four-dimensional flow cardiovascular magnetic resonance in tetralogy of Fallot: a systematic review. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 59.	1.6	14
8	Noninvasive quantification of cerebrovascular pressure changes using 4D Flow MRI. Magnetic Resonance in Medicine, 2021, 86, 3096-3110.	1.9	13
9	Systematic Comparison of Left Ventricular Geometry Between 3D-Echocardiography and Cardiac Magnetic Resonance Imaging. Frontiers in Cardiovascular Medicine, 2021, 8, 728205.	1.1	10
10	An Implementation of Patient-Specific Biventricular Mechanics Simulations With a Deep Learning and Computational Pipeline. Frontiers in Physiology, 2021, 12, 716597.	1.3	12
11	Right-left ventricular shape variations in tetralogy of Fallot: associations with pulmonary regurgitation. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 105.	1.6	15
12	Assessment of Thrombotic Risk following Transcatheter Mitral Valve Replacement. , 2021, , .		1
13	Deep Learning Analysis of Cardiac MRI in Legacy Datasets: Multi-Ethnic Study of Atherosclerosis. Frontiers in Cardiovascular Medicine, 2021, 8, 807728.	1.1	8
14	WSSNet: Aortic Wall Shear Stress Estimation Using Deep Learning on 4D Flow MRI. Frontiers in Cardiovascular Medicine, 2021, 8, 769927.	1.1	9
15	Right Ventricular Flow Vorticity Relationships With Biventricular Shape in Adult Tetralogy of Fallot. Frontiers in Cardiovascular Medicine, 2021, 8, 806107.	1.1	8
16	Abstract 10282: Biventricular Shape Markers in Repaired Tetralogy of Fallot Associate with Pulmonary Valve Replacement Better Than Standard Clinical Indices. Circulation, 2021, 144, .	1.6	0
17	The Future of Cardiac Magnetic Resonance Clinical Trials. JACC: Cardiovascular Imaging, 2021, , .	2.3	6
18	Imaging biomarkers for cardiovascular diseases. , 2020, , 401-428.		1

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19	Editorial: Current and Future Role of Artificial Intelligence in Cardiac Imaging. Frontiers in Cardiovascular Medicine, 2020, 7, 137.	1.1	9
20	Ex vivo cardiovascularÂmagnetic resonance diffusion weighted imaging in congenital heart disease, an insight into the microstructures of tetralogy of Fallot, biventricular and univentricular systemic right ventricle. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 69.	1.6	9
21	AI in Medical Imaging Informatics: Current Challenges and Future Directions. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1837-1857.	3.9	215
22	4DFlowNet: Super-Resolution 4D Flow MRI Using Deep Learning and Computational Fluid Dynamics. Frontiers in Physics, 2020, 8, .	1.0	61
23	Artificial Intelligence in Cardiac Imaging With Statistical Atlases of Cardiac Anatomy. Frontiers in Cardiovascular Medicine, 2020, 7, 102.	1.1	20
24	Fully Automated Myocardial Strain Estimation from Cardiovascular MRIâ€“tagged Images Using a Deep Learning Framework in the UK Biobank. Radiology: Cardiothoracic Imaging, 2020, 2, e190032.	0.9	29
25	Efficient estimation of loadâ€free left ventricular geometry and passive myocardial properties using principal component analysis. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3313.	1.0	7
26	Comparison of 2D Echocardiography and Cardiac Cine MRI in the Assessment of Regional Left Ventricular Wall Thickness. Lecture Notes in Computer Science, 2020, , 52-62.	1.0	2
27	Right ventricular shape and function: cardiovascular magnetic resonance reference morphology and biventricular risk factor morphometrics in UK Biobank. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 41.	1.6	47
28	Machine learning in cardiovascular magnetic resonance: basic concepts and applications. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 61.	1.6	157
29	Microstructurally Motivated Constitutive Modeling of Heart Failure Mechanics. Biophysical Journal, 2019, 117, 2273-2286.	0.2	12
30	Changes in Cardiac Morphology and Function in Individuals With Diabetes Mellitus. Circulation: Cardiovascular Imaging, 2019, 12, e009476.	1.3	43
31	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. Scientific Reports, 2019, 9, 1130.	1.6	43
32	End-Diastolic and End-Systolic LV Morphology in the Presence of Cardiovascular Risk Factors: A UK Biobank Study. Lecture Notes in Computer Science, 2019, , 304-312.	1.0	1
33	Atlas-Based Computational Analysis of Heart Shape and Function in Congenital Heart Disease. Journal of Cardiovascular Translational Research, 2018, 11, 123-132.	1.1	19
34	Estimation of transversely isotropic material properties from magnetic resonance elastography using the optimised virtual fields method. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2979.	1.0	17
35	Statistical Shape Modeling of the Left Ventricle: Myocardial Infarct Classification Challenge. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 503-515.	3.9	61
36	Left ventricular function and regional strain with subtlyâ€tagged steadyâ€state free precession feature tracking. Journal of Magnetic Resonance Imaging, 2018, 47, 787-797.	1.9	3

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37	Automatic initialization and quality control of large-scale cardiac MRI segmentations. Medical Image Analysis, 2018, 43, 129-141.	7.0	48
38	Fully-automated left ventricular mass and volume MRI analysis in the UK Biobank population cohort: evaluation of initial results. International Journal of Cardiovascular Imaging, 2018, 34, 281-291.	0.7	46
39	Comparison of effects of losartan and metoprolol on left ventricular and aortic function at rest and during exercise in chronic aortic regurgitation. International Journal of Cardiovascular Imaging, 2018, 34, 615-624.	0.7	7
40	Relative identifiability of anisotropic properties from magnetic resonance elastography. NMR in Biomedicine, 2018, 31, e3848.	1.6	5
41	The Role of MRI in Preclinical and Clinical Functional Quantification and Modelling. , 2018, , 3-21.		0
42	Left Ventricular Diastolic Myocardial Stiffness and End-Diastolic Myofibre Stress in Human Heart Failure Using Personalised Biomechanical Analysis. Journal of Cardiovascular Translational Research, 2018, 11, 346-356.	1.1	34
43	An interactive tool for rapid biventricular analysis of congenital heart disease. Clinical Physiology and Functional Imaging, 2017, 37, 413-420.	0.5	9
44	An Open Benchmark Challenge for Motion Correction of Myocardial Perfusion MRI. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1315-1326.	3.9	18
45	Left ventricular shape predicts different types of cardiovascular events in the general population. Heart, 2017, 103, 499-507.	1.2	45
46	Long-term cardiovascular outcome following fetal anaemia and intrauterine transfusion: a cohort study. Archives of Disease in Childhood, 2017, 102, 40-45.	1.0	12
47	Increased cardiac work provides a link between systemic hypertension and heart failure. Physiological Reports, 2017, 5, e13104.	0.7	14
48	A Study of Coronary Bifurcation Shape in a Normal Population. Journal of Cardiovascular Translational Research, 2017, 10, 82-90.	1.1	22
49	Morphologically normalized left ventricular motion indicators from MRI feature tracking characterize myocardial infarction. Scientific Reports, 2017, 7, 12259.	1.6	15
50	Estimation of myocardial strain from non-rigid registration and highly accelerated cine CMR. International Journal of Cardiovascular Imaging, 2017, 33, 101-107.	0.7	8
51	Orthogonal decomposition of left ventricular remodeling in myocardial infarction. GigaScience, 2017, 6, 1-15.	3.3	12
52	Three-Dimensional Volumetric Assessment of Diastolic Function by Cardiac Magnetic Resonance Imaging: The Multi-Ethnic Study of Atherosclerosis (MESA). Arquivos Brasileiros De Cardiologia, 2017, 108, 552-563.	0.3	10
53	UK Biobank's cardiovascular magnetic resonance protocol. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 8.	1.6	254
54	Multiphysics and multiscale modelling, dataâ€“model fusion and integration of organ physiology in the clinic: ventricular cardiac mechanics. Interface Focus, 2016, 6, 20150083.	1.5	165

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55	Image-driven constitutive modeling of myocardial fibrosis. International Journal for Computational Methods in Engineering Science and Mechanics, 2016, 17, 211-221.	1.4	12
56	Impact of bifurcation angle and other anatomical characteristics on blood flow â€“ A computational study of non-stented and stented coronary arteries. Journal of Biomechanics, 2016, 49, 1570-1582.	0.9	44
57	Atlas-based ventricular shape analysis for understanding congenital heart disease. Progress in Pediatric Cardiology, 2016, 43, 61-69.	0.2	20
58	Improving assessment of congenital heart disease through rapid patient specific modeling. , 2016, 2016, 1228-1231.		0
59	Quantifying passive myocardial stiffness and wall stress in heart failure patients using personalized ventricular mechanics. Journal of Cardiovascular Magnetic Resonance, 2016, 18, O17.	1.6	3
60	Cardiac image modelling: Breadth and depth in heart disease. Medical Image Analysis, 2016, 33, 38-43.	7.0	23
61	Image-Based Investigation of Human in Vivo Myofibre Strain. IEEE Transactions on Medical Imaging, 2016, 35, 2486-2496.	5.4	17
62	Parameterisation of Multi-directional Diffusion Weighted Magnetic Resonance Images of the Heart. Lecture Notes in Computer Science, 2016, , 60-68.	1.0	0
63	Hemodynamics in Idealized Stented Coronary Arteries: Important Stent Design Considerations. Annals of Biomedical Engineering, 2016, 44, 315-329.	1.3	59
64	A computational atlas of normal coronary artery anatomy. EuroIntervention, 2016, 12, 845-854.	1.4	43
65	Patient Metadata-Constrained Shape Models for Cardiac Image Segmentation. Lecture Notes in Computer Science, 2016, , 98-107.	1.0	1
66	Creating shape templates for patient specific biventricular modeling in congenital heart disease. , 2015, 2015, 679-82.		3
67	Quantification of LV function and mass by cardiovascular magnetic resonance: multi-center variability and consensus contours. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 63.	1.6	135
68	Information maximizing component analysis of left ventricular remodeling due to myocardial infarction. Journal of Translational Medicine, 2015, 13, 343.	1.8	20
69	Big Heart Data: Advancing Health Informatics Through Data Sharing in Cardiovascular Imaging. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1283-1290.	3.9	39
70	Comparison of magnetic resonance feature tracking for systolic and diastolic strain and strain rate calculation with spatial modulation of magnetization imaging analysis. Journal of Magnetic Resonance Imaging, 2015, 41, 1000-1012.	1.9	87
71	Challenges of Cardiac Image Analysis in Large-Scale Population-Based Studies. Current Cardiology Reports, 2015, 17, 563.	1.3	14
72	Image Feature Determinants of Global and Segmental Circumferential Ventricular Strain From Cine CMR. JACC: Cardiovascular Imaging, 2015, 8, 1465-1466.	2.3	15

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73	t-tubule disease: Relationship between t-tubule organization and regional contractile performance in human dilated cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2015, 84, 170-178.	0.9	76
74	Association of reduced right ventricular global and regional wall motion with abnormal right heart hemodynamics. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P317.	1.6	0
75	Myocardial contractility and afterload in aortic stenosis. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P371.	1.6	0
76	Real-time aortic pulse wave velocity measurement during exercise stress testing. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 86.	1.6	20
77	Regional Heterogeneity of LV Wall Thickness. JACC: Cardiovascular Imaging, 2015, 8, 1270-1271.	2.3	0
78	Field-Based Parameterisation of Cardiac Muscle Structure from Diffusion Tensors. Lecture Notes in Computer Science, 2015, , 146-154.	1.0	2
79	Determining Anisotropic Myocardial Stiffness from Magnetic Resonance Elastography: A Simulation Study. Lecture Notes in Computer Science, 2015, , 346-354.	1.0	4
80	Microstructural Remodelling and Mechanics of Hypertensive Heart Disease. Lecture Notes in Computer Science, 2015, , 382-389.	1.0	5
81	Regional Heterogeneity in 3D Myocardial Shortening in Hypertensive Left Ventricular Hypertrophy: A Cardiovascular CMR Tagging Substudy to the Life Study. Journal of Biomedical Science and Engineering, 2015, 08, 213-225.	0.2	4
82	Applications and Comparisons of Four Time Series Models in Epidemiological Surveillance Data. PLoS ONE, 2014, 9, e88075.	1.1	109
83	Atlas-Based Quantification of Cardiac Remodeling Due to Myocardial Infarction. PLoS ONE, 2014, 9, e110243.	1.1	65
84	Atlas-based anatomical modeling and analysis of heart disease. Drug Discovery Today: Disease Models, 2014, 14, 33-39.	1.2	6
85	Accuracy of compressed sensing for left ventricular mass and volumes. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P381.	1.6	0
86	A collaborative resource to build consensus for automated left ventricular segmentation of cardiac MR images. Medical Image Analysis, 2014, 18, 50-62.	7.0	143
87	Construction of a Coronary Artery Atlas from CT Angiography. Lecture Notes in Computer Science, 2014, 17, 513-520.	1.0	11
88	Left ventricular shape variation in asymptomatic populations: the multi-ethnic study of atherosclerosis. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 56.	1.6	75
89	Rapid D-Affine Biventricular Cardiac Function with Polar Prediction. Lecture Notes in Computer Science, 2014, 17, 546-553.	1.0	11
90	Continuous Spatio-temporal Atlases of the Asymptomatic and Infarcted Hearts. Lecture Notes in Computer Science, 2014, , 143-151.	1.0	4

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91	Treatment with a copper-selective chelator causes substantive improvement in cardiac function of diabetic rats with left-ventricular impairment. Cardiovascular Diabetology, 2013, 12, 28.	2.7	36
92	Imaging in population science: cardiovascular magnetic resonance in 100,000 participants of UK Biobank - rationale, challenges and approaches. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 46.	1.6	188
93	Atlas-based analysis of cardiac shape and function: correction of regional shape bias due to imaging protocol for population studies. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 80.	1.6	30
94	Cardiovascular Magnetic Resonance: Deeper Insights Through Bioengineering. Annual Review of Biomedical Engineering, 2013, 15, 433-461.	5.7	10
95	An Atlas for Cardiac MRI Regional Wall Motion and Infarct Scoring. Lecture Notes in Computer Science, 2013, , 188-197.	1.0	7
96	Automated Personalised Human Left Ventricular FE Models to Investigate Heart Failure Mechanics. Lecture Notes in Computer Science, 2013, , 307-316.	1.0	4
97	Changes in In Vivo Myocardial Tissue Properties Due to Heart Failure. Lecture Notes in Computer Science, 2013, , 216-223.	1.0	9
98	Large Scale Left Ventricular Shape Atlas Using Automated Model Fitting to Contours. Lecture Notes in Computer Science, 2013, , 433-441.	1.0	11
99	Intraventricular Dyssynchrony Assessment Using Regional Contraction from LV Motion Models. Lecture Notes in Computer Science, 2013, , 458-465.	1.0	1
100	Comparative Study of Four Time Series Methods in Forecasting Typhoid Fever Incidence in China. PLoS ONE, 2013, 8, e63116.	1.1	92
101	Estimation of In Vivo Myocardial Fibre Strain Using an Architectural Atlas of the Human Heart. Lecture Notes in Computer Science, 2013, , 208-215.	1.0	2
102	Low vitamin D levels are related to left ventricular concentric remodelling in men of different ethnic groups with varying cardiovascular risk. International Journal of Cardiology, 2012, 158, 444-447.	0.8	6
103	Evaluation of left ventricular torsion by cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 49.	1.6	94
104	Development of a method for the measurement of primary cilia length in 3D. Cilia, 2012, 1, 11.	1.8	15
105	The VPH-Physiome Project: Standards, tools and databases for multi-scale physiological modelling. Modeling, Simulation and Applications, 2012, , 205-250.	1.3	2
106	Ventricular Torsion. JACC: Cardiovascular Imaging, 2012, 5, 282-284.	2.3	7
107	Generalized spatiotemporal myocardial strain analysis for DENSE and SPAMM imaging. Magnetic Resonance in Medicine, 2012, 67, 1590-1599.	1.9	55
108	Myocardial Contractility and Regional Work throughout the Cardiac Cycle Using FEM and MRI. Lecture Notes in Computer Science, 2012, , 149-159.	1.0	11

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109	Left Ventricular Segmentation Challenge from Cardiac MRI: A Collation Study. Lecture Notes in Computer Science, 2012, , 88-97.	1.0	26
110	Maximum Likelihood Correction of Shape Bias Arising from Imaging Protocol: Application to Cardiac MRI. Lecture Notes in Computer Science, 2012, , 214-223.	1.0	0
111	Accelerating global left-ventricular function assessment in mice using reduced slice acquisition and three-dimensional guide-point modelling. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 49.	1.6	10
112	The cardiac atlas project: rationale, design and preliminary results. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	3
113	Mapping system for coregistration of cardiac mri and ex vivo tissue sampling. Journal of Magnetic Resonance Imaging, 2011, 34, 1065-1071.	1.9	7
114	The Cardiac Atlas Projectâ€"an imaging database for computational modeling and statistical atlases of the heart. Bioinformatics, 2011, 27, 2288-2295.	1.8	232
115	Relationship between QRS duration and left ventricular mass and volume in patients at high cardiovascular risk. Heart, 2011, 97, 1766-1770.	1.2	31
116	Effect of Spironolactone on Left Ventricular Systolic and Diastolic Function in Patients With Early Stage Chronic Kidney Disease. American Journal of Cardiology, 2010, 106, 1505-1511.	0.7	55
117	Interactive biventricular modeling tools for clinical cardiac image analysis. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	1.6	2
118	Changes in Mitral Annular Geometry and Dynamics With Î²-Blockade in Patients With Degenerative Mitral Valve Disease. Circulation: Cardiovascular Imaging, 2010, 3, 687-693.	1.3	19
119	In-line Automated Tracking for Ventricular Function With Magnetic Resonance Imaging. JACC: Cardiovascular Imaging, 2010, 3, 860-866.	2.3	53
120	The Cardiac Atlas Project: Towards a Map of the Heart. , 2010, , 113-129.		1
121	Cardiac Anchoring in MRI through Context Modeling. Lecture Notes in Computer Science, 2010, 13, 383-390.	1.0	19
122	Cardiac Active Contraction Parameters Estimated from Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2010, , 194-203.	1.0	9
123	The Cardiac Atlas Project: Preliminary Description of Heart Shape in Patients with Myocardial Infarction. Lecture Notes in Computer Science, 2010, , 46-53.	1.0	6
124	The Cardiac Atlas Project: Development of a Framework Integrating Cardiac Images and Models. Lecture Notes in Computer Science, 2010, , 54-64.	1.0	3
125	The Cardiac Atlas Project: Rationale, Design and Procedures. Lecture Notes in Computer Science, 2010, , 36-45.	1.0	0
126	Interactive Cardiac Image Analysis for Biventricular Function of the Human Heart. Lecture Notes in Computer Science, 2010, , 144-153.	1.0	1

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127	Investigating Heart Failure Using Ventricular Imaging and Modelling. Lecture Notes in Computer Science, 2010, , 164-173.	1.0	0
128	Left Ventricular Mass and Volume With Telmisartan, Ramipril, or Combination in Patients With Previous Atherosclerotic Events or With Diabetes Mellitus (from the ONgoing Telmisartan Alone and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 2009, 104, 1484-1489.	0.7	46
129	Fast left ventricular mass and volume assessment in mice with threeâ€dimensional guideâ€point modeling. Journal of Magnetic Resonance Imaging, 2009, 30, 514-520.	1.9	13
130	Phase contrast ultrashort TE: A more reliable technique for measurement of highâ€velocity turbulent stenotic jets. Magnetic Resonance in Medicine, 2009, 62, 626-636.	1.9	59
131	The cardiac MRI substudy to ongoing telmisartan alone and in combination with ramipril global endpoint trial/telmisartan randomized assessment study in ACE-intolerant subjects with cardiovascular disease: analysis protocol and baseline characteristics. Clinical Research in Cardiology, 2009, 98, 421-433.	1.5	11
132	Left ventricular hypertrophy and renin-angiotensin system blockade. Current Hypertension Reports, 2009, 11, 167-72.	1.5	50
133	A copper(II)-selective chelator ameliorates left-ventricular hypertrophy in type 2 diabetic patients: a randomised placebo-controlled study. Diabetologia, 2009, 52, 715-722.	2.9	70
134	Aortic valve stenotic area calculation from phase contrast cardiovascular magnetic resonance: the importance of short echo time. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 49.	1.6	46
135	Computational cardiac atlases: from patient to population and back. Experimental Physiology, 2009, 94, 578-596.	0.9	115
136	Modelling passive diastolic mechanics with quantitative MRI of cardiac structure and function. Medical Image Analysis, 2009, 13, 773-784.	7.0	155
137	Assessments of Right Ventricular Volume and Function Using Three-Dimensional Echocardiography in Older Children and Adults With Congenital Heart Disease: Comparison With Cardiac Magnetic Resonance Imaging. Journal of the American Society of Echocardiography, 2009, 22, 1279-1288.	1.2	127
138	Cardiac Image Modeling Tool for Quantitative Analysis of Global and Regional Cardiac Wall Motion. Investigative Radiology, 2009, 44, 271-278.	3.5	10
139	Recovery of Myocardial Kinematic Function without the Time History of External Loads. Eurasip Journal on Advances in Signal Processing, 2009, 2010, .	1.0	1
140	Myocardial material parameter estimation. Biomechanics and Modeling in Mechanobiology, 2008, 7, 161-173.	1.4	61
141	Feasibility of single breath-hold left ventricular function with 3 Tesla TSENSE acquisition and 3D modeling analysis. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 24.	1.6	18
142	311 Finite element modeling integration of cardiac MRI structure and function. Journal of Cardiovascular Magnetic Resonance, 2008, 10, .	1.6	1
143	2067 Scan-rescan reproducibility of left ventricular mass with 3D Cardiac Image Modeling (CIM). Journal of Cardiovascular Magnetic Resonance, 2008, 10, .	1.6	0
144	MRI phase contrast velocity and flow errors in turbulent stenotic jets. Journal of Magnetic Resonance Imaging, 2008, 28, 210-218.	1.9	112

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145	A randomized trial of the aldosterone-receptor antagonist eplerenone in asymptomatic moderate-severe aortic stenosis. American Heart Journal, 2008, 156, 348-355.	1.2	37
146	GPU Accelerated Non-rigid Registration for the Evaluation of Cardiac Function. Lecture Notes in Computer Science, 2008, 11, 880-887.	1.0	10
147	Impact of coronary revascularization and transmural extent of scar on regional left ventricular remodelling. European Heart Journal, 2008, 29, 1608-1617.	1.0	427
148	Localization and Atlas-Based Segmentation of the Heart from Cardiac MR Images: Validation with a Large Clinical Trial. , 2008, , .		2
149	Passive Ventricular Mechanics Modelling Using MRI of Structure and Function. Lecture Notes in Computer Science, 2008, 11, 814-821.	1.0	7
150	Pilot Study to Assess the Influence of Î²-Blockade on Mitral Regurgitant Volume and Left Ventricular Work in Degenerative Mitral Valve Disease. Circulation, 2008, 118, 1041-1046.	1.6	26
151	Marked Regional Left Ventricular Heterogeneity in Hypertensive Left Ventricular Hypertrophy Patients. Hypertension, 2008, 52, 279-286.	1.3	34
152	Multi-parameter in vivo cardiac magnetic resonance imaging demonstrates normal perfusion reserve despite severely attenuated Î²-adrenergic functional response in neuronal nitric oxide synthase knockout mice. European Heart Journal, 2007, 28, 2792-2798.	1.0	51
153	Automated Detection of Left Ventricle in 4D MR Images: Experience from a Large Study. Lecture Notes in Computer Science, 2006, 9, 728-735.	1.0	31
154	Assessment of Cardiac Performance with Magnetic Resonance Imaging. Current Cardiology Reviews, 2006, 2, 271-282.	0.6	6
155	Impaired subendocardial contractile myofiber function in asymptomatic aged humans, as detected using MRI. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1573-H1579.	1.5	134
156	Reperfused Myocardial Infarction in Mice: 3D Mapping of Late Gadolinium Enhancement and Strain. Journal of Cardiovascular Magnetic Resonance, 2006, 8, 685-692.	1.6	42
157	Estimation of Cardiac Hyperelastic Material Properties from MRI Tissue Tagging and Diffusion Tensor Imaging. Lecture Notes in Computer Science, 2006, 9, 628-635.	1.0	23
158	Parameter distribution models for estimation of population based left ventricular deformation using sparse fiducial markers. IEEE Transactions on Medical Imaging, 2005, 24, 381-388.	5.4	23
159	Method and Apparatus for Soft Tissue Material Parameter Estimation Using Tissue Tagged Magnetic Resonance Imaging. Journal of Biomechanical Engineering, 2005, 127, 148-157.	0.6	58
160	Fast modelling of heart pathology with soft objects. International Congress Series, 2005, 1281, 28-32.	0.2	0
161	Midwall Shortening After Coarctation Repair: The Effect of Through-plane Motion on Single-plane Indices of Left Ventricular Function. Journal of the American Society of Echocardiography, 2005, 18, 1131-1136.	1.2	15
162	Regeneration of the Heart in Diabetes by Selective Copper Chelation. Diabetes, 2004, 53, 2501-2508.	0.3	143

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163	Strain softening behaviour in nonviable rat right-ventricular trabeculae, in the presence and the absence of butanedione monoxime. Experimental Physiology, 2004, 89, 593-604.	0.9	8
164	Extraction and Quantification of Left Ventricular Deformation Modes. IEEE Transactions on Biomedical Engineering, 2004, 51, 1923-1931.	2.5	37
165	Three-dimensional assessment of left ventricular systolic strain in patients with type 2 diabetes mellitus, diastolic dysfunction, and normal ejection fraction. American Journal of Cardiology, 2004, 94, 1391-1395.	0.7	117
166	The visualization and measurement of left ventricular deformation using finite element models. Journal of Visual Languages and Computing, 2003, 14, 299-326.	1.8	13
167	Aging alters patterns of regional nonuniformity in LV strain relaxation: a 3-D MR tissue tagging study. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H621-H630.	1.5	87
168	Age-Related Changes in Myocardial Relaxation Using Three-Dimensional Tagged Magnetic Resonance Imaging. Journal of Cardiovascular Magnetic Resonance, 2003, 5, 421-430.	1.6	88
169	Shear properties of passive ventricular myocardium. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2650-H2659.	1.5	288
170	Temporal Evolution of Left Ventricular Strain Late After Repair of Coarctation of the Aorta Using 3D MR Tissue Tagging. Journal of Cardiovascular Magnetic Resonance, 2002, 4, 233-243.	1.6	20
171	Regional heterogeneity of function in nonischemic dilated cardiomyopathy. Cardiovascular Research, 2001, 49, 308-318.	1.8	95
172	Finite Element Modeling for Three-Dimensional Motion Reconstruction and Analysis. Computational Imaging and Vision, 2001, , 37-58.	0.6	6
173	A Triaxial-Measurement Shear-Test Device for Soft Biological Tissues. Journal of Biomechanical Engineering, 2000, 122, 471-478.	0.6	87
174	Left Ventricular Mass and Volume: Fast Calculation with Guide-Point Modeling on MR Images. Radiology, 2000, 216, 597-602.	3.6	202
175	The effect of synthetic patch repair of coarctation on regional deformation of the aortic wall. Journal of Thoracic and Cardiovascular Surgery, 2000, 120, 1053-1063.	0.4	39
176	Model tags: direct three-dimensional tracking of heart wall motion from tagged magnetic resonance images. Medical Image Analysis, 1999, 3, 361-372.	7.0	77
177	3-Dimensional configuration of perimysial collagen fibres in rat cardiac muscle at resting and extended sarcomere lengths. Journal of Physiology, 1999, 517, 831-837.	1.3	76
178	Right ventricular regional function using MR tagging: Normals versus chronic pulmonary hypertension. Magnetic Resonance in Medicine, 1998, 39, 116-123.	1.9	71
179	Integrated MRI assessment of regional function and perfusion in canine myocardial infarction. Magnetic Resonance in Medicine, 1998, 40, 311-326.	1.9	31
180	Extended confocal microscopy of myocardial laminae and collagen network. Journal of Microscopy, 1998, 192, 139-150.	0.8	150

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181	Model tags: Direct 3D tracking of heart wall motion from tagged MR images. Lecture Notes in Computer Science, 1998, , 92-101.	1.0	10
182	Deformable models with parameter functions for cardiac motion analysis from tagged MRI data. IEEE Transactions on Medical Imaging, 1996, 15, 278-289.	5.4	131
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