

Pierre Croisille

List of Publications by Citations

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178
papers

5,893
citations

36
h-index

73
g-index

199
ext. papers

6,995
ext. citations

5.9
avg, IF

5.25
L-index

#	Paper	IF	Citations
178	Effect of cyclosporine on reperfusion injury in acute myocardial infarction. <i>New England Journal of Medicine</i> , 2008 , 359, 473-81	59.2	1026
177	Assessment of myocardial fibrosis with cardiovascular magnetic resonance. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 891-903	15.1	619
176	Physiological basis of myocardial contrast enhancement in fast magnetic resonance images of 2-day-old reperfused canine infarcts. <i>Circulation</i> , 1995 , 92, 1902-10	16.7	322
175	Post-conditioning reduces infarct size and edema in patients with ST-segment elevation myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2012 , 59, 2175-81	15.1	171
174	Effect of cyclosporine on left ventricular remodeling after reperfused myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2010 , 55, 1200-1205	15.1	155
173	Diastolic dysfunction in patients with type 2 diabetes mellitus: is it really the first marker of diabetic cardiomyopathy?. <i>Journal of the American Society of Echocardiography</i> , 2011 , 24, 1268-1275.e1	5.8	149
172	Human atlas of the cardiac fiber architecture: study on a healthy population. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1436-47	11.7	144
171	Intracoronary autologous mononucleated bone marrow cell infusion for acute myocardial infarction: results of the randomized multicenter BONAMI trial. <i>European Heart Journal</i> , 2011 , 32, 1748-975	9.5	132
170	Impaired myocardial radial function in asymptomatic patients with type 2 diabetes mellitus: a speckle-tracking imaging study. <i>Journal of the American Society of Echocardiography</i> , 2010 , 23, 1266-72	5.8	117
169	Cardiac MRI Endpoints in Myocardial Infarction Experimental and Clinical Trials: JACC Scientific Expert Panel. <i>Journal of the American College of Cardiology</i> , 2019 , 74, 238-256	15.1	102
168	Prognostic value of routine cardiac magnetic resonance assessment of left ventricular ejection fraction and myocardial damage: an international, multicenter study. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 610-9	3.9	94
167	Cardiac and respiratory double self-gated cine MRI in the mouse at 7 T. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 506-13	4.4	80
166	Comparison of three diffusion encoding schemes for cardiac imaging under free breathing conditions.. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18,	6.9	78
165	Does T1-mapping in border-zone and/or remote regions can help to predict functional recovery after revascularization in chronic Coronary Total Occlusion (CTO) patients?. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, O45	6.9	78
164	Controversies in cardiovascular MR imaging: T2-weighted imaging should not be used to delineate the area at risk in ischemic myocardial injury. <i>Radiology</i> , 2012 , 265, 12-22	20.5	78
163	Potential of pre-contrast T1 mapping as a marker of interstitial fibrosis in severe aortic stenosis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
162	Determination of the myocardial area at risk after reperfused acute myocardial infarction with different imaging techniques: cardiac magnetic resonance imaging, multidetector computed tomography and histopathological validation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78

161	Apparent Diffusion coefficient (ADC), T1 and T2 quantitative indexes of the myocardium in athletes before, during and after extreme mountain ultra-marathon: correlation with myocardial damages and inflammation biomarkers. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, O41	6.9	78
160	Myocardial tagging with MR imaging: overview of normal and pathologic findings. <i>Radiographics</i> , 2012 , 32, 1381-98	5.4	77
159	Longitudinal myocardial strain alteration is associated with left ventricular remodeling in asymptomatic patients with type 2 diabetes mellitus. <i>Journal of the American Society of Echocardiography</i> , 2014 , 27, 479-88	5.8	74
158	Differentiation of viable and nonviable myocardium by the use of three-dimensional tagged MRI in 2-day-old reperfused canine infarcts. <i>Circulation</i> , 1999 , 99, 284-91	16.7	71
157	Postconditioning attenuates no-reflow in STEMI patients. <i>Basic Research in Cardiology</i> , 2013 , 108, 383	11.8	65
156	Automated myocardial edge detection from breath-hold cine-MR images: evaluation of left ventricular volumes and mass. <i>Magnetic Resonance Imaging</i> , 1994 , 12, 589-98	3.3	58
155	Pulmonary nodules: improved detection with vascular segmentation and extraction with spiral CT. Work in progress. <i>Radiology</i> , 1995 , 197, 397-401	20.5	57
154	Determination of the myocardial area at risk with pre- versus post-reperfusion imaging techniques in the pig model. <i>Basic Research in Cardiology</i> , 2011 , 106, 1247-57	11.8	53
153	Airway narrowing in healthy humans inhaling methacholine without deep inspirations demonstrated by HRCT. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000 , 161, 1256-63	10.2	53
152	Contrast agents and cardiac MR imaging of myocardial ischemia: from bench to bedside. <i>European Radiology</i> , 2006 , 16, 1951-63	8	50
151	Subclinical diastolic dysfunction in young adults with Type 2 diabetes mellitus: a multiparametric contrast-enhanced cardiovascular magnetic resonance pilot study assessing potential mechanisms. <i>European Heart Journal Cardiovascular Imaging</i> , 2014 , 15, 1263-9	4.1	48
150	Two-dimensional spatial and temporal displacement and deformation field fitting from cardiac magnetic resonance tagging. <i>Medical Image Analysis</i> , 2000 , 4, 253-68	15.4	46
149	Comparison of Immediate With Delayed Stenting Using the Minimalist Immediate Mechanical Intervention Approach in Acute ST-Segment-Elevation Myocardial Infarction: The MIMI Study. <i>Circulation: Cardiovascular Interventions</i> , 2016 , 9, e003388	6	45
148	In vivo cardiac diffusion-weighted magnetic resonance imaging: quantification of normal perfusion and diffusion coefficients with intravoxel incoherent motion imaging. <i>Investigative Radiology</i> , 2012 , 47, 662-70	10.1	43
147	Shear-Wave Elastography Assessments of Quadriceps Stiffness Changes prior to, during and after Prolonged Exercise: A Longitudinal Study during an Extreme Mountain Ultra-Marathon. <i>PLoS ONE</i> , 2016 , 11, e0161855	3.7	40
146	Quantification of myocardial extracellular volume fraction with cardiac MR imaging for early detection of left ventricle involvement in systemic sclerosis. <i>Radiology</i> , 2014 , 271, 373-80	20.5	39
145	Low b-value diffusion-weighted cardiac magnetic resonance imaging: initial results in humans using an optimal time-window imaging approach. <i>Investigative Radiology</i> , 2011 , 46, 751-8	10.1	39
144	No post-conditioning in the human heart with thrombolysis in myocardial infarction flow 2-3 on admission. <i>European Heart Journal</i> , 2014 , 35, 1675-82	9.5	38

143	Myocardial Extracellular Volume Estimation by CMR Predicts Functional Recovery Following Acute MI. <i>JACC: Cardiovascular Imaging</i> , 2017 , 10, 989-999	8.4	36
142	Systolic myocardial dysfunction in patients with type 2 diabetes mellitus: identification at MR imaging with cine displacement encoding with stimulated echoes. <i>Radiology</i> , 2012 , 265, 402-9	20.5	34
141	Multidetector computed tomography in reperfused acute myocardial infarction. Assessment of infarct size and no-reflow in comparison with cardiac magnetic resonance imaging. <i>Investigative Radiology</i> , 2008 , 43, 773-81	10.1	34
140	Free-breathing diffusion tensor imaging and tractography of the human heart in healthy volunteers using wavelet-based image fusion. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 306-16	11.7	32
139	Fluid- and Biomechanical Analysis of Ascending Thoracic Aorta Aneurysm with Concomitant Aortic Insufficiency. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 2921-2932	4.7	32
138	In vivo free-breathing DTI and IVIM of the whole human heart using a real-time slice-followed SE-EPI navigator-based sequence: A reproducibility study in healthy volunteers. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 70-82	4.4	30
137	Evaluation of Peak Wall Stress in an Ascending Thoracic Aortic Aneurysm Using FSI Simulations: Effects of Aortic Stiffness and Peripheral Resistance. <i>Cardiovascular Engineering and Technology</i> , 2018 , 9, 707-722	2.2	30
136	Comparison of the angiographic myocardial blush grade with delayed-enhanced cardiac magnetic resonance for the assessment of microvascular obstruction in acute myocardial infarctions. <i>Catheterization and Cardiovascular Interventions</i> , 2009 , 74, 1000-7	2.7	29
135	Comparison of regularization methods for human cardiac diffusion tensor MRI. <i>Medical Image Analysis</i> , 2009 , 13, 405-18	15.4	28
134	Statistical Analysis of the Human Cardiac Fiber Architecture from DT-MRI. <i>Lecture Notes in Computer Science</i> , 2011 , 171-179	0.9	28
133	Lung perfusion demonstrated by contrast-enhanced dynamic magnetic resonance imaging. Application to unilateral lung transplantation. <i>Investigative Radiology</i> , 1997 , 32, 351-6	10.1	28
132	Feature-based interpolation of diffusion tensor fields and application to human cardiac DT-MRI. <i>Medical Image Analysis</i> , 2012 , 16, 459-81	15.4	27
131	Churg-Strauss syndrome presenting with acute myocarditis and cardiogenic shock. <i>Heart Lung and Circulation</i> , 2012 , 21, 178-81	1.8	26
130	Head-to-head comparison of eight late gadolinium-enhanced cardiac MR (LGE CMR) sequences at 1.5 tesla: from bench to bedside. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 1374-87	5.6	26
129	Adaptive postprocessing techniques for myocardial tissue tracking with displacement-encoded MR imaging. <i>Radiology</i> , 2008 , 246, 229-40	20.5	26
128	Type 2 diabetes mellitus and obesity in young adults: the extreme phenotype with early cardiovascular dysfunction. <i>Diabetic Medicine</i> , 2014 , 31, 794-8	3.5	25
127	Magnetic resonance imaging assessment of intraventricular dyssynchrony and delayed enhancement as predictors of response to cardiac resynchronization therapy in patients with heart failure of ischaemic and non-ischaemic etiologies. <i>European Journal of Radiology</i> , 2012 , 81, 2639-47	4.7	24
126	Comparison of visual scoring and quantitative planimetry methods for estimation of global infarct size on delayed enhanced cardiac MRI and validation with myocardial enzymes. <i>European Journal of Radiology</i> , 2011 , 78, 87-92	4.7	24

125	Presence and extent of cardiac magnetic resonance microvascular obstruction in reperfused non-ST-elevated myocardial infarction and correlation with infarct size and myocardial enzyme release. <i>Cardiology</i> , 2009 , 113, 50-8	1.6	24
124	Exploratory analysis of the spatio-temporal deformation of the myocardium during systole from tagged MRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2002 , 49, 1328-39	5	23
123	Comparison of local sine wave modeling with harmonic phase analysis for the assessment of myocardial strain. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 38, 320-8	5.6	22
122	PCATMIP: enhancing signal intensity in diffusion-weighted magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 1611-9	4.4	22
121	Muscarinic receptor upregulation in patients with myocardial infarction: a new paradigm. <i>Circulation: Cardiovascular Imaging</i> , 2009 , 2, 365-72	3.9	22
120	Cine and tagged cardiovascular magnetic resonance imaging in normal rat at 1.5 T: a rest and stress study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008 , 10, 48	6.9	22
119	Comparison of strain imaging techniques in CRT candidates: CMR tagging, CMR feature tracking and speckle tracking echocardiography. <i>International Journal of Cardiovascular Imaging</i> , 2018 , 34, 443-456	2.5	21
118	Myocardial biomarkers and delayed enhanced cardiac magnetic resonance relationship in clinically suspected myocarditis and insight on clinical outcome. <i>Journal of Cardiovascular Medicine</i> , 2015 , 16, 696-703	1.8	21
117	Assessment of complicated arterial bypass grafts: value of contrast-enhanced subtraction magnetic resonance angiography. <i>Journal of Vascular Surgery</i> , 1997 , 26, 1036-42	3.5	21
116	Precision of myocardial contour estimation from tagged MR images with a "black-blood" technique. <i>Academic Radiology</i> , 1998 , 5, 93-100	4.3	20
115	Left ventricular postmyocardial infarction remodeling studied by combining MR-tagging with delayed MR contrast enhancement. <i>Investigative Radiology</i> , 2008 , 43, 219-28	10.1	20
114	T2-weighted cardiac MR assessment of the myocardial area-at-risk and salvage area in acute reperfused myocardial infarction: comparison of state-of-the-art dark blood and bright blood T2-weighted sequences. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 328-39	5.6	19
113	Assessment of cardiac motion effects on the fiber architecture of the human heart in vivo. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1928-38	11.7	19
112	Mechanisms leading to reversible mechanical dysfunction in severe CAD: alternatives to myocardial stunning. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H2570-82	5.2	19
111	Effect of Colchicine on Myocardial Injury in Acute Myocardial Infarction. <i>Circulation</i> , 2021 , 144, 859-869	16.7	18
110	Characterization of normal regional myocardial function by MRI cardiac tagging. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 83-92	5.6	17
109	Influence of microvascular obstruction on regional myocardial deformation in the acute phase of myocardial infarction: a speckle-tracking echocardiography study. <i>Journal of the American Society of Echocardiography</i> , 2014 , 27, 93-100	5.8	16
108	A FEM-based deformable model for the 3D segmentation and tracking of the heart in cardiac MRI		16

107	Denosing human cardiac diffusion tensor magnetic resonance images using sparse representation combined with segmentation. <i>Physics in Medicine and Biology</i> , 2009 , 54, 1435-56	3.8	15
106	A graph-based approach for automatic cardiac tractography. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1215-29	4.4	15
105	Image-Based Investigation of Human in Vivo Myofibre Strain. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2486-2496	11.7	14
104	A new look at left ventricular remodeling definition by cardiac imaging. <i>International Journal of Cardiology</i> , 2016 , 209, 17-9	3.2	14
103	Comparison between qualitative and quantitative wall motion analyses using dipyridamole stress breath-hold cine magnetic resonance imaging in patients with severe coronary artery stenosis. <i>Magnetic Resonance Imaging</i> , 1997 , 15, 891-8	3.3	14
102	Giant coronary artery aneurysm mimicking a compressive cardiac tumor Imaging features and operative strategy. <i>Cardiovascular Pathology</i> , 2005 , 14, 272-5	3.8	13
101	Gadobutrol-Enhanced Cardiac Magnetic Resonance Imaging for Detection of Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , 2020 , 76, 1536-1547	15.1	13
100	Strain analysis is superior to wall thickening in discriminating between infarcted myocardium with and without microvascular obstruction. <i>European Radiology</i> , 2018 , 28, 5171-5181	8	12
99	Strain imaging to predict response to cardiac resynchronization therapy: a systematic comparison of strain parameters using multiple imaging techniques. <i>ESC Heart Failure</i> , 2018 , 5, 1130-1140	3.7	12
98	Simulation based evaluation of cardiac motion estimation methods in tagged-MR Image sequences. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	12
97	Cardioprotection in the clinical setting. <i>Cardiovascular Drugs and Therapy</i> , 2010 , 24, 281-7	3.9	12
96	Ascending thoracic aorta aneurysm repair induces positive hemodynamic outcomes in a patient with unchanged bicuspid aortic valve. <i>Journal of Biomechanics</i> , 2018 , 81, 145-148	2.9	12
95	Expanding the cardiac spectrum of Noonan syndrome with RIT1 variant: Left main coronary artery atresia causing sudden death. <i>European Journal of Medical Genetics</i> , 2017 , 60, 299-302	2.6	11
94	Extreme Mountain Ultra-Marathon Leads to Acute but Transient Increase in Cerebral Water Diffusivity and Plasma Biomarkers Levels Changes. <i>Frontiers in Physiology</i> , 2016 , 7, 664	4.6	11
93	Factor analysis of medical image sequences improves evaluation of first-pass MR imaging acquisitions for myocardial perfusion. <i>Academic Radiology</i> , 2002 , 9, 26-39	4.3	11
92	T mapping performance and measurement repeatability: results from the multi-national T mapping standardization phantom program (T1MES). <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 31	6.9	10
91	Interpolation of vector fields from human cardiac DT-MRI. <i>Physics in Medicine and Biology</i> , 2011 , 56, 1415-30	3.3	10
90	Analytic signal phase-based myocardial motion estimation in tagged MRI sequences by a bilinear model and motion compensation. <i>Medical Image Analysis</i> , 2015 , 24, 149-162	15.4	9

89	Pre-PCI angiographic TIMI flow in the culprit coronary artery influences infarct size and microvascular obstruction in STEMI patients. <i>Journal of Cardiology</i> , 2016 , 67, 248-53	3	9
88	Cardiovascular magnetic resonance tagging imaging correlates with myocardial dysfunction and T2 mapping in idiopathic dilated cardiomyopathy. <i>International Journal of Cardiovascular Imaging</i> , 2014 , 30 Suppl 2, 145-52	2.5	9
87	Quantification of Right and Left Ventricular Function in Cardiac MR Imaging: Comparison of Semiautomatic and Manual Segmentation Algorithms. <i>Diagnostics</i> , 2013 , 3, 271-82	3.8	9
86	Dobutamine-tagged MRI for inotropic reserve assessment in severe CAD: relationship with PET findings. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H1946-53	5.2	9
85	Statistical Atlas of Human Cardiac Fibers: Comparison with Abnormal Hearts. <i>Lecture Notes in Computer Science</i> , 2012 , 207-213	0.9	9
84	Role of upfront CT pulmonary angiography at admission in COVID-19 patients. <i>Thrombosis Research</i> , 2020 , 196, 138-140	8.2	9
83	Imaging Interstitial Fibrosis, Left Ventricular Remodeling, and Function in Stage A and B Heart Failure. <i>JACC: Cardiovascular Imaging</i> , 2021 , 14, 1038-1052	8.4	9
82	A comparative study of different level interpolations for improving spatial resolution in diffusion tensor imaging. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1317-27	7.2	8
81	Quantification of left ventricular dyssynchrony in patients with systolic dysfunction: a comparison of circumferential strain MR-tagging metrics. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 1238-46	5.6	8
80	Reliability of standardized ultrasound measurements of quadriceps muscle thickness in neurological critically ill patients: a comparison to computed tomography measures. <i>Journal of Rehabilitation Medicine</i> , 2020 , 52, jrm00032	3.4	7
79	Estimation of cardiac motion in cine-MRI sequences by correlation transform optical flow of monogenic features distance. <i>Physics in Medicine and Biology</i> , 2016 , 61, 8640-8663	3.8	7
78	Effects of glycaemic variability on cardiac remodelling after reperfused myocardial infarction: Evaluation of streptozotocin-induced diabetic Wistar rats using cardiac magnetic resonance imaging. <i>Diabetes and Metabolism</i> , 2016 , 42, 342-350	5.4	7
77	A gradient-based optical-flow cardiac motion estimation method for cine and tagged MR images. <i>Medical Image Analysis</i> , 2019 , 57, 136-148	15.4	7
76	MRI reconstruction from 2D truncated k-space. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 1196-2006	2.6	7
75	Towards in vivo diffusion tensor MRI on human heart using edge-preserving regularization. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6008-11		7
74	MR imaging of the heart: functional imaging. <i>European Radiology</i> , 2000 , 10, 7-11	8	7
73	Nepriylsin levels at the acute phase of ST-elevation myocardial infarction. <i>Clinical Cardiology</i> , 2019 , 42, 32-38	3.3	7
72	Simultaneous strain-volume analysis by three-dimensional echocardiography: validation in normal subjects with tagging cardiac magnetic resonance. <i>Journal of Cardiovascular Medicine</i> , 2017 , 18, 223-229	1.9	6

71	Chemical-Shift-Encoded Magnetic Resonance Imaging and Spectroscopy to Reveal Immediate and Long-Term Multi-Organs Composition Changes of a 14-Days Periodic Fasting Intervention: A Technological and Case Report. <i>Frontiers in Nutrition</i> , 2019 , 6, 5	6.2	6
70	In vivo estimation of normal left ventricular stiffness and contractility based on routine cine MR acquisition. <i>Medical Engineering and Physics</i> , 2020 , 85, 16-26	2.4	6
69	Simultaneous myocardial strain and dark-blood perfusion imaging using a displacement-encoded MRI pulse sequence. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 787-98	4.4	6
68	Gender and strain variations in left ventricular cardiac function and mass determined with magnetic resonance imaging at 7 tesla in adult mice. <i>Investigative Radiology</i> , 2007 , 42, 1-7	10.1	6
67	Quantifying the effect of tissue deformation on diffusion-weighted MRI: a mathematical model and an efficient simulation framework applied to cardiac diffusion imaging. <i>Physics in Medicine and Biology</i> , 2016 , 61, 5662-86	3.8	6
66	Relationship Between Ascending Thoracic Aortic Aneurysms Hemodynamics and Biomechanical Properties. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 949-956	5	6
65	Colchicine for Left Ventricular Infarct Size Reduction in Acute Myocardial Infarction: A Phase II, Multicenter, Randomized, Double-Blinded, Placebo-Controlled Study Protocol - The COVERT-MI Study. <i>Cardiology</i> , 2021 , 146, 151-160	1.6	6
64	Automatic Registration of MR First-Pass Myocardial Perfusion Images. <i>Lecture Notes in Computer Science</i> , 2003 , 215-223	0.9	6
63	MRI of Reperfused Acute Myocardial Infarction Edema: ADC Quantification versus T1 and T2 Mapping. <i>Radiology</i> , 2020 , 295, 542-549	20.5	5
62	CMRSegTools: an Osirix plugin for myocardial infarct sizing on DE-CMR images. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	5
61	Ventricular muscarinic receptor remodeling in patients with and without primary ventricular fibrillation. An imaging study. <i>Journal of Nuclear Cardiology</i> , 2012 , 19, 1017-25	2.1	5
60	Hemodynamics alteration in patient-specific dilated ascending thoracic aortas with tricuspid and bicuspid aortic valves. <i>Journal of Biomechanics</i> , 2020 , 110, 109954	2.9	5
59	Coupling hemodynamics with mechanobiology in patient-specific computational models of ascending thoracic aortic aneurysms. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 205, 106107	6.9	5
58	Computational prediction of hemodynamical and biomechanical alterations induced by aneurysm dilatation in patient-specific ascending thoracic aortas. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020 , 36, e3326	2.6	4
57	Strain analysis in CRT candidates using the novel segment length in cine (SLICE) post-processing technique on standard CMR cine images. <i>European Radiology</i> , 2017 , 27, 5158-5168	8	4
56	The role of imaging and molecular imaging in the early detection of metabolic and cardiovascular dysfunctions. <i>International Journal of Obesity</i> , 2010 , 34 Suppl 2, S67-81	5.5	4
55	Improved image reconstruction incorporating non-rigid motion correction for cardiac MRI using BLADE acquisition. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	4
54	A Strategy to Quantitatively Evaluate MRI/PET Cardiac Rigid Registration Methods Using a Monte Carlo Simulator. <i>Lecture Notes in Computer Science</i> , 2003 , 194-204	0.9	4

53	Quantitative comparison of human myocardial fiber orientations derived from DTI and polarized light imaging. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215003	3.8	4
52	Regional cardiac function analysis from tagged MRI images. Comparison of techniques: Harmonic-Phase (HARP) versus Sinusoidal-Modeling (SinMod) analysis. <i>Magnetic Resonance Imaging</i> , 2018 , 54, 271-282	3.3	4
51	A novel contribution towards coherent and reproducible intravalvular measurement of the aortic annulus by multidetector computed tomography ahead of transcatheter aortic valve implantation. <i>Archives of Cardiovascular Diseases</i> , 2015 , 108, 281-92	2.7	3
50	Myocardial perfusion and glucose uptake coupling in CAD patients. <i>International Journal of Cardiovascular Imaging</i> , 2003 , 19, 389-99		3
49	Interactive drawing of the left ventricular borders from cine magnetic resonance images. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1994 , 2, 13-20	2.8	3
48	Hubless 3D Medical Image Bundle Registration 2016 ,		3
47	Incorporating Low-Level Constraints for the Retrieval of Personalised Heart Models from Dynamic MRI. <i>Lecture Notes in Computer Science</i> , 2010 , 174-183	0.9	3
46	Variability of the Human Cardiac Lamina Structure. <i>Lecture Notes in Computer Science</i> , 2012 , 160-167	0.9	3
45	Accuracy of right ventricular volume and function assessed with cardiovascular magnetic resonance: comparison with echocardiographic parameters. <i>Clinical Imaging</i> , 2020 , 59, 61-67	2.7	3
44	Motion-Induced Signal Loss in In Vivo Cardiac Diffusion-Weighted Imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 51, 319-320	5.6	3
43	Association of myocardial hemorrhage and persistent microvascular obstruction with circulating inflammatory biomarkers in STEMI patients. <i>PLoS ONE</i> , 2021 , 16, e0245684	3.7	3
42	Myocardial adaptation after surgical therapy differs for aortic valve stenosis and hypertrophic obstructive cardiomyopathy. <i>International Journal of Cardiovascular Imaging</i> , 2019 , 35, 1089-1100	2.5	2
41	Reply: Myocardial Salvage, Area at Risk by T2w CMR: The Resolution of the Retrospective Radio Wave Paradigm?. <i>Journal of the American College of Cardiology</i> , 2015 , 65, 2358-9	15.1	2
40	In vivo free-breathing DTI & IVIM of the whole human heart using a real-time slice-followed SE-EPI navigator-based sequence: a reproducibility study in healthy volunteers. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	2
39	Assessment of myocardial partition coefficient of gadolinium (D) in dilated cardiomyopathy and its impact on segmental and global systolic function. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 1336-41	5.6	2
38	Usefulness of MRI to demonstrate the mechanisms of myocardial ischemia in hypertrophic cardiomyopathy with myocardial bridge. <i>Cardiology</i> , 2007 , 107, 159-64	1.6	2
37	Quantitative Magnetic Resonance Imaging Assessment of the Quadriceps Changes during an Extreme Mountain Ultramarathon. <i>Medicine and Science in Sports and Exercise</i> , 2021 , 53, 869-881	1.2	2
36	A Realistic Anthropomorphic Numerical Model of the Beating Heart. <i>Lecture Notes in Computer Science</i> , 2005 , 384-393	0.9	2

35	Strain-Based Parameters for Infarct Localization: Evaluation via a Learning Algorithm on a Synthetic Database of Pathological Hearts. <i>Lecture Notes in Computer Science</i> , 2017 , 106-114	0.9	2
34	Subacute coronary artery thrombosis: MRI findings. <i>Journal of Computer Assisted Tomography</i> , 1997 , 21, 962-4	2.2	2
33	Noise-Reduced TPS Interpolation of Primary Vector Fields for Fiber Tracking in Human Cardiac DT-MRI. <i>Lecture Notes in Computer Science</i> , 2009 , 78-86	0.9	2
32	Estimation of In Vivo Myocardial Fibre Strain Using an Architectural Atlas of the Human Heart. <i>Lecture Notes in Computer Science</i> , 2013 , 208-215	0.9	2
31	Predictive value of early cardiac magnetic resonance imaging functional and geometric indexes for adverse left ventricular remodelling in patients with anterior ST-segment elevation myocardial infarction: A report from the CIRCUS study. <i>Archives of Cardiovascular Diseases</i> , 2020 , 113, 710-720	2.7	2
30	Automatic myocardial ischemic lesion detection on magnetic resonance perfusion weighted imaging prior perfusion quantification: A pre-modeling strategy. <i>Computers in Biology and Medicine</i> , 2019 , 110, 108-119	7	1
29	Cardiac imaging research group. Results and future works. <i>Irbm</i> , 2013 , 34, 21-23	4.8	1
28	Multimodal quantification and validation of 3D regional myocardial function. <i>Irbm</i> , 2015 , 36, 70-79	4.8	1
27	DT-MRI interpolation: At what level? 2012 ,		1
26	T(2)-weighted CMR: but where is Elvis in the end?. <i>JACC: Cardiovascular Imaging</i> , 2012 , 5, 233-4; author reply 234-6	8.4	1
25	Why delay intervention in STEMI?. <i>JACC: Cardiovascular Imaging</i> , 2011 , 4, 921-2; discussion 922-3	8.4	1
24	Multiple myocardial infarctions in a 35 year-old woman with POEMS syndrome. <i>European Heart Journal</i> , 2010 , 31, 1097	9.5	1
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