

Johan H C Reiber

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286
papers

11,754
citations

58
h-index

97
g-index

334
ext. papers

13,095
ext. citations

5.3
avg, IF

5.56
L-index

#	Paper	IF	Citations
286	Effects of lipid lowering by pravastatin on progression and regression of coronary artery disease in symptomatic men with normal to moderately elevated serum cholesterol levels. The Regression Growth Evaluation Statin Study (REGRESS). <i>Circulation</i> , 1995 , 91, 2528-40	16.7	554
285	Diet, lipoproteins, and the progression of coronary atherosclerosis. The Leiden Intervention Trial. <i>New England Journal of Medicine</i> , 1985 , 312, 805-11	59.2	461
284	Infarct tissue heterogeneity assessed with contrast-enhanced MRI predicts spontaneous ventricular arrhythmia in patients with ischemic cardiomyopathy and implantable cardioverter-defibrillator. <i>Circulation: Cardiovascular Imaging</i> , 2009 , 2, 183-90	3.9	329
283	3-D active appearance models: segmentation of cardiac MR and ultrasound images. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 1167-78	11.7	275
282	Assessment of percutaneous transluminal coronary angioplasty by quantitative coronary angiography: diameter versus densitometric area measurements. <i>American Journal of Cardiology</i> , 1984 , 54, 482-8	3	257
281	Comparison of echocardiographic methods with magnetic resonance imaging for assessment of right ventricular function in children. <i>American Journal of Cardiology</i> , 1995 , 76, 589-94	3	225
280	Diagnostic Accuracy of Fast Computational Approaches to Derive Fractional Flow Reserve From Diagnostic Coronary Angiography: The International Multicenter FAVOR Pilot Study. <i>JACC: Cardiovascular Interventions</i> , 2016 , 9, 2024-2035	5	224
279	Coronary artery dimensions from cineangiograms methodology and validation of a computer-assisted analysis procedure. <i>IEEE Transactions on Medical Imaging</i> , 1984 , 3, 131-41	11.7	213
278	Fractional flow reserve calculation from 3-dimensional quantitative coronary angiography and TIMI frame count: a fast computer model to quantify the functional significance of moderately obstructed coronary arteries. <i>JACC: Cardiovascular Interventions</i> , 2014 , 7, 768-77	5	205
277	Automatic segmentation of echocardiographic sequences by active appearance motion models. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 1374-83	11.7	203
276	LDL-Apheresis Atherosclerosis Regression Study (LAARS). Effect of aggressive versus conventional lipid lowering treatment on coronary atherosclerosis. <i>Circulation</i> , 1996 , 93, 1826-35	16.7	200
275	Evaluation of plaque characteristics in acute coronary syndromes: non-invasive assessment with multi-slice computed tomography and invasive evaluation with intravascular ultrasound radiofrequency data analysis. <i>European Heart Journal</i> , 2008 , 29, 2373-81	9.5	185
274	A new approach for the quantification of complex lesion morphology: the gradient field transform; basic principles and validation results. <i>Journal of the American College of Cardiology</i> , 1994 , 24, 216-24	15.1	175
273	Comparison between manual and semiautomated analysis of left ventricular volume parameters from short-axis MR images. <i>Journal of Computer Assisted Tomography</i> , 1997 , 21, 756-65	2.2	167
272	SPASM: a 3D-ASM for segmentation of sparse and arbitrarily oriented cardiac MRI data. <i>Medical Image Analysis</i> , 2006 , 10, 286-303	15.4	160
271	Automated quantification of coronary plaque with computed tomography: comparison with intravascular ultrasound using a dedicated registration algorithm for fusion-based quantification. <i>European Heart Journal</i> , 2012 , 33, 1007-16	9.5	157
270	Quantification of right ventricular function with magnetic resonance imaging in children with normal hearts and with congenital heart disease. <i>American Heart Journal</i> , 1995 , 130, 828-37	4.9	153

269	Head-to-head comparison of contrast-enhanced magnetic resonance imaging and electroanatomical voltage mapping to assess post-infarct scar characteristics in patients with ventricular tachycardias: real-time image integration and reversed registration. <i>European Heart Journal</i> , 2011 , 32, 104-14	9.5	152
268	Hierarchical functional modularity in the resting-state human brain. <i>Human Brain Mapping</i> , 2009 , 30, 2220-31	5.9	147
267	Mitral valve and tricuspid valve blood flow: accurate quantification with 3D velocity-encoded MR imaging with retrospective valve tracking. <i>Radiology</i> , 2008 , 249, 792-800	20.5	138
266	Automatic quantification and characterization of coronary atherosclerosis with computed tomography coronary angiography: cross-correlation with intravascular ultrasound virtual histology. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 1177-90	2.5	135
265	Accuracy and precision of quantitative digital coronary arteriography: observer-, short-, and medium-term variabilities. <i>Catheterization and Cardiovascular Diagnosis</i> , 1993 , 28, 187-98		132
264	Early detection of restenosis after successful percutaneous transluminal coronary angioplasty by exercise-redistribution thallium scintigraphy. <i>American Journal of Cardiology</i> , 1985 , 55, 357-61	3	130
263	Reproducibility of total cerebral blood flow measurements using phase contrast magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 16, 1-5	5.6	122
262	Quantitative assessment of regional left ventricular motion using endocardial landmarks. <i>Journal of the American College of Cardiology</i> , 1986 , 7, 317-26	15.1	113
261	Assessment of left ventricular dyssynchrony in patients with conduction delay and idiopathic dilated cardiomyopathy: head-to-head comparison between tissue doppler imaging and velocity-encoded magnetic resonance imaging. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 2042-8	15.1	112
260	Detection and quantification of dysfunctional myocardium by magnetic resonance imaging. A new three-dimensional method for quantitative wall-thickening analysis. <i>Circulation</i> , 1997 , 95, 924-31	16.7	111
259	Flow assessment through four heart valves simultaneously using 3-dimensional 3-directional velocity-encoded magnetic resonance imaging with retrospective valve tracking in healthy volunteers and patients with valvular regurgitation. <i>Investigative Radiology</i> , 2009 , 44, 669-75	10.1	106
258	Impact of simultaneous pancreas and kidney transplantation on progression of coronary atherosclerosis in patients with end-stage renal failure due to type 1 diabetes. <i>Diabetes Care</i> , 2002 , 25, 906-11	14.6	106
257	In-vivo validation of on-line and off-line geometric coronary measurements using insertion of stenosis phantoms in porcine coronary arteries. <i>Catheterization and Cardiovascular Diagnosis</i> , 1992 , 27, 16-27		100
256	Automatic centerline extraction of coronary arteries in coronary computed tomographic angiography. <i>International Journal of Cardiovascular Imaging</i> , 2012 , 28, 921-33	2.5	98
255	Evaluation of Coronary Artery Stenosis by Quantitative Flow Ratio During Invasive Coronary Angiography: The WIFI II Study (Wire-Free Functional Imaging II). <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11, e007107	3.9	92
254	Comparison of clinical interpretation with visual assessment and quantitative coronary angiography in patients undergoing percutaneous coronary intervention in contemporary practice: the Assessing Angiography (A2) project. <i>Circulation</i> , 2013 , 127, 1793-800	16.7	90
253	Heparin-coated Wiktor stents in human coronary arteries (MENTOR trial). MENTOR Trial Investigators. <i>American Journal of Cardiology</i> , 2000 , 86, 385-9	3	89
252	Fast and accurate automated measurements in digitized stereophotogrammetric radiographs. <i>Journal of Biomechanics</i> , 1998 , 31, 491-8	2.9	88

251	Assessment of dimensions and image quality of coronary contrast catheters from cineangiograms. <i>Catheterization and Cardiovascular Diagnosis</i> , 1985 , 11, 521-31		85
250	Automated measurement of volume flow in the ascending aorta using MR velocity maps: evaluation of inter- and intraobserver variability in healthy volunteers. <i>Journal of Computer Assisted Tomography</i> , 1998 , 22, 904-11	2.2	84
249	In vivo comparison of arterial lumen dimensions assessed by co-registered three-dimensional (3D) quantitative coronary angiography, intravascular ultrasound and optical coherence tomography. <i>International Journal of Cardiovascular Imaging</i> , 2012 , 28, 1315-27	2.5	82
248	The Asp9 Asn mutation in the lipoprotein lipase gene is associated with increased progression of coronary atherosclerosis. REGRESS Study Group, Interuniversity Cardiology Institute, Utrecht, The Netherlands. Regression Growth Evaluation Statin Study. <i>Circulation</i> , 1996 , 94, 1913-8	16.7	78
247	Which cineangiographically assessed anatomic variable correlates best with functional measurements of stenosis severity? A comparison of quantitative analysis of the coronary cineangiogram with measured coronary flow reserve and exercise/redistribution thallium-201 scintigraphy. <i>Journal of the American College of Cardiology</i> , 1988 , 12, 686-91	15.1	77
246	Shape differences of the brain ventricles in Alzheimer's disease. <i>NeuroImage</i> , 2006 , 32, 1060-9	7.9	76
245	Change in diameter of coronary artery segments adjacent to stenosis after percutaneous transluminal coronary angioplasty: failure of percent diameter stenosis measurement to reflect morphologic changes induced by balloon dilation. <i>Journal of the American College of Cardiology</i> , 1988 , 12, 315-23	15.1	76
244	Atlas-based whole-body segmentation of mice from low-contrast Micro-CT data. <i>Medical Image Analysis</i> , 2010 , 14, 723-37	15.4	75
243	Effect of pravastatin on progression and regression of coronary atherosclerosis and vessel wall changes in carotid and femoral arteries: a report from the Regression Growth Evaluation Statin Study. <i>American Journal of Cardiology</i> , 1995 , 76, 40C-46C	3	73
242	Echo planar MRI of the heart on a standard system: validation of measurements of left ventricular function and mass. <i>Journal of Computer Assisted Tomography</i> , 1996 , 20, 942-9	2.2	72
241	Fully automated motion correction in first-pass myocardial perfusion MR image sequences. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1611-21	11.7	69
240	Diagnostic performance of angiography-derived fractional flow reserve: a systematic review and Bayesian meta-analysis. <i>European Heart Journal</i> , 2018 , 39, 3314-3321	9.5	68
239	Evidence for a synergistic effect of calcium channel blockers with lipid-lowering therapy in retarding progression of coronary atherosclerosis in symptomatic patients with normal to moderately raised cholesterol levels. The REGRESS Study Group. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1996 , 16, 425-30	9.4	67
238	Comprehensive assessment of spotty calcifications on computed tomography angiography: comparison to plaque characteristics on intravascular ultrasound with radiofrequency backscatter analysis. <i>Journal of Nuclear Cardiology</i> , 2011 , 18, 893-903	2.1	66
237	Automated detection of regional wall motion abnormalities based on a statistical model applied to multislice short-axis cardiac MR images. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 595-607	11.7	66
236	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting: Expert Review Document on Techniques and Clinical Implementation. <i>JACC: Cardiovascular Interventions</i> , 2015 , 8, 1281-1296	5.296	65
235	Variability in densitometric assessment of pulmonary emphysema with computed tomography. <i>Investigative Radiology</i> , 2005 , 40, 777-83	10.1	65
234	Repeatability of lung density measurements with low-dose computed tomography in subjects with alpha-1-antitrypsin deficiency-associated emphysema. <i>Investigative Radiology</i> , 2001 , 36, 648-51	10.1	64

233	Anatomic considerations of cochlear morphology and its implications for insertion trauma in cochlear implant surgery. <i>Otology and Neurotology</i> , 2009 , 30, 471-7	2.6	61
232	Fusion of 3D QCA and IVUS/OCT. <i>International Journal of Cardiovascular Imaging</i> , 2011 , 27, 197-207	2.5	59
231	A strain energy filter for 3D vessel enhancement with application to pulmonary CT images. <i>Medical Image Analysis</i> , 2011 , 15, 112-24	15.4	59
230	A 3-D active shape model driven by fuzzy inference: application to cardiac CT and MR. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2008 , 12, 595-605		59
229	Operator induced variability in cardiovascular MR: left ventricular measurements and their reproducibility. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2005 , 7, 447-57	6.9	59
228	Automated segmentation of myocardial scar in late enhancement MRI using combined intensity and spatial information. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 586-94	4.4	58
227	Quantitative analysis of cardiovascular MR images. <i>International Journal of Cardiovascular Imaging</i> , 1997 , 13, 247-58		58
226	Positive remodeling on coronary computed tomography as a marker for plaque vulnerability on virtual histology intravascular ultrasound. <i>American Journal of Cardiology</i> , 2011 , 107, 1725-9	3	56
225	Results of the first clinical study of adjunctive CALdaret (MCC-135) in patients undergoing primary percutaneous coronary intervention for ST-Elevation Myocardial Infarction: the randomized multicentre CASTEMI study. <i>European Heart Journal</i> , 2006 , 27, 2516-23	9.5	55
224	Impact of Side Branch Modeling on Computation of Endothelial Shear Stress in Coronary Artery Disease: Coronary Tree Reconstruction by Fusion of 3D Angiography and OCT. <i>Journal of the American College of Cardiology</i> , 2015 , 66, 125-35	15.1	54
223	Edge detection versus densitometry in the quantitative assessment of stenosis phantoms: an in vivo comparison in porcine coronary arteries. <i>American Heart Journal</i> , 1992 , 124, 1181-9	4.9	52
222	Quantitative Flow Ratio Identifies Nonculprit Coronary Lesions Requiring Revascularization in Patients With ST-Segment-Elevation Myocardial Infarction and Multivessel Disease. <i>Circulation: Cardiovascular Interventions</i> , 2018 , 11, e006023	6	51
221	Automated quantification of stenosis severity on 64-slice CT: a comparison with quantitative coronary angiography. <i>JACC: Cardiovascular Imaging</i> , 2010 , 3, 699-709	8.4	51
220	Vessel diameter measurements in gadolinium contrast-enhanced three-dimensional MRA of peripheral arteries. <i>Magnetic Resonance Imaging</i> , 2000 , 18, 13-22	3.3	51
219	Advanced contour detection for three-dimensional intracoronary ultrasound: a validation--in vitro and in vivo. <i>International Journal of Cardiovascular Imaging</i> , 2002 , 18, 235-48		49
218	Quantitative analysis of regional left ventricular function after myocardial infarction in the pig assessed with cine magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 161-9	4.4	49
217	Sources of error in lung densitometry with CT. <i>Investigative Radiology</i> , 1999 , 34, 303-9	10.1	48
216	Diagnostic performance of 320-slice multidetector computed tomography coronary angiography in patients after coronary artery bypass grafting. <i>European Radiology</i> , 2011 , 21, 2285-96	8	46

215	Edge detection versus densitometry for assessing coronary stenting quantitatively. <i>American Journal of Cardiology</i> , 1991 , 67, 484-90	3	46
214	Time continuous tracking and segmentation of cardiovascular magnetic resonance images using multidimensional dynamic programming. <i>Investigative Radiology</i> , 2006 , 41, 52-62	10.1	45
213	Accurate and reproducible reconstruction of coronary arteries and endothelial shear stress calculation using 3D OCT: comparative study to 3D IVUS and 3D QCA. <i>Atherosclerosis</i> , 2015 , 240, 510-9	3.1	44
212	Automatic stent strut detection in intravascular optical coherence tomographic pullback runs. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 29-38	2.5	44
211	Ventricular shape biomarkers for Alzheimer's disease in clinical MR images. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 260-7	4.4	43
210	The use of Roentgen stereophotogrammetry to study micromotion of orthopaedic implants. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2002 , 56, 376-389	11.8	43
209	Ultrasound assessment of atherosclerotic vessel wall changes: reproducibility of intima-media thickness measurements in carotid and femoral arteries. <i>Investigative Radiology</i> , 2000 , 35, 699-706	10.1	43
208	In vivo assessment of bifurcation optimal viewing angles and bifurcation angles by three-dimensional (3D) quantitative coronary angiography. <i>International Journal of Cardiovascular Imaging</i> , 2012 , 28, 1617-25	2.5	42
207	Age-related and regional changes of aortic stiffness in the Marfan syndrome: assessment with velocity-encoded MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 526-31	5.6	42
206	Morphological hippocampal markers for automated detection of Alzheimer's disease and mild cognitive impairment converters in magnetic resonance images. <i>Journal of Alzheimer's Disease</i> , 2009 , 17, 643-59	4.3	42
205	Evaluation of a new method for automated detection of left ventricular boundaries in time series of magnetic resonance images using an Active Appearance Motion Model. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2004 , 6, 609-17	6.9	42
204	Progression and regression of human coronary atherosclerosis. The role of lipoproteins, lipases and thyroid hormones in coronary lesion growth. <i>Atherosclerosis</i> , 1987 , 68, 51-8	3.1	42
203	MMSE scores correlate with local ventricular enlargement in the spectrum from cognitively normal to Alzheimer disease. <i>NeuroImage</i> , 2008 , 39, 1832-8	7.9	41
202	Feasibility of diastolic function assessment with cardiac CT: feasibility study in comparison with tissue Doppler imaging. <i>JACC: Cardiovascular Imaging</i> , 2011 , 4, 246-56	8.4	40
201	The influence of flow, vessel diameter, and non-newtonian blood viscosity on the wall shear stress in a carotid bifurcation model for unsteady flow. <i>Investigative Radiology</i> , 2005 , 40, 277-94	10.1	40
200	Improved aortic pulse wave velocity assessment from multislice two-directional in-plane velocity-encoded magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 1086-94 ^{5,6}	5.6	39
199	Comparison of the sensitivities of 5 different computed tomography scanners for the assessment of the progression of pulmonary emphysema: a phantom study. <i>Investigative Radiology</i> , 2004 , 39, 1-7	10.1	39
198	Towards quantitative analysis of coronary CTA. <i>International Journal of Cardiovascular Imaging</i> , 2005 , 21, 73-84	2.5	37

197	Predictors of coronary in-stent restenosis: importance of angiotensin-converting enzyme gene polymorphism and treatment with angiotensin-converting enzyme inhibitors. <i>Journal of the American College of Cardiology</i> , 2001 , 38, 1434-9	15.1	37
196	Automatic lumen and outer wall segmentation of the carotid artery using deformable three-dimensional models in MR angiography and vessel wall images. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 156-65	5.6	35
195	Shape abnormalities of the striatum in Alzheimer's disease. <i>Journal of Alzheimers Disease</i> , 2011 , 23, 49-59	4.3	35
194	A novel three-dimensional quantitative coronary angiography system: In-vivo comparison with intravascular ultrasound for assessing arterial segment length. <i>Catheterization and Cardiovascular Interventions</i> , 2010 , 76, 291-8	2.7	35
193	Feasibility study on automated recognition of allergenic pollen: grass, birch and mugwort. <i>Aerobiologia</i> , 2006 , 22, 275-284	2.4	35
192	Automated observer-independent acquisition of cardiac short-axis MR images: a pilot study. <i>Radiology</i> , 2001 , 221, 537-42	20.5	35
191	A novel method to assess coronary artery bifurcations by OCT: cut-plane analysis for side-branch ostial assessment from a main-vessel pullback. <i>European Heart Journal Cardiovascular Imaging</i> , 2015 , 16, 177-89	4.1	34
190	MRI-assessed regional pulse wave velocity for predicting absence of regional aorta luminal growth in marfan syndrome. <i>International Journal of Cardiology</i> , 2013 , 167, 2977-82	3.2	34
189	Angiotensin-converting enzyme inhibitor therapy affects left ventricular mass in patients with ejection fraction > 40% after acute myocardial infarction. <i>Journal of the American College of Cardiology</i> , 1997 , 29, 49-54	15.1	34
188	Reperfusion ventricular arrhythmia 'bursts' predict larger infarct size despite TIMI 3 flow restoration with primary angioplasty for anterior ST-elevation myocardial infarction. <i>European Heart Journal</i> , 2009 , 30, 757-64	9.5	33
187	GAMES: growing and adaptive meshes for fully automatic shape modeling and analysis. <i>Medical Image Analysis</i> , 2007 , 11, 302-14	15.4	33
186	Assessment of obstruction length and optimal viewing angle from biplane X-ray angiograms. <i>International Journal of Cardiovascular Imaging</i> , 2010 , 26, 5-17	2.5	32
185	Automatic vessel wall contour detection and quantification of wall thickness in in-vivo MR images of the human aorta. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 595-602	5.6	32
184	Computer-aided diagnosis via model-based shape analysis: automated classification of wall motion abnormalities in echocardiograms. <i>Academic Radiology</i> , 2005 , 12, 358-67	4.3	32
183	7T T ₂ -weighted magnetic resonance imaging reveals cortical phase differences between early- and late-onset Alzheimer's disease. <i>Neurobiology of Aging</i> , 2015 , 36, 20-6	5.6	31
182	ST elevation acute myocardial infarction accelerates non-culprit coronary lesion atherosclerosis. <i>International Journal of Cardiovascular Imaging</i> , 2014 , 30, 253-61	2.5	31
181	Automatic detection of bioresorbable vascular scaffold struts in intravascular optical coherence tomography pullback runs. <i>Biomedical Optics Express</i> , 2014 , 5, 3589-602	3.5	31
180	Quantitative analysis of left ventricular function from equilibrium gated blood pool scintigrams: an overview of computer methods. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1985 , 10, 97-110		31

179	Co-registration of optical coherence tomography and X-ray angiography in percutaneous coronary intervention. the Does Optical Coherence Tomography Optimize Revascularization (DOCTOR) fusion study. <i>International Journal of Cardiology</i> , 2015 , 182, 272-8	3.2	30
178	An integrated automated analysis method for quantifying vessel stenosis and plaque burden from carotid MRI images: combined postprocessing of MRA and vessel wall MR. <i>Stroke</i> , 2006 , 37, 2162-4	6.7	29
177	Cardiac MR perfusion image processing techniques: a survey. <i>Medical Image Analysis</i> , 2012 , 16, 767-85	15.4	28
176	Myocardial perfusion-fibrosis pattern in systemic sclerosis assessed by cardiac magnetic resonance. <i>International Journal of Cardiology</i> , 2012 , 159, e56-8	3.2	28
175	Comparison of the relation between the calcium score and plaque characteristics in patients with acute coronary syndrome versus patients with stable coronary artery disease, assessed by computed tomography angiography and virtual histology intravascular ultrasound. <i>American Journal of Cardiology</i> , 2011 , 108, 658-64	3	28
174	Cross-sectional, prospective study of MRI reproducibility in the assessment of plaque burden of the carotid arteries and aorta. <i>Nature Reviews Cardiology</i> , 2009 , 6, 219-28	14.8	28
173	Reperfusion ventricular arrhythmia 'bursts' in TIMI 3 flow restoration with primary angioplasty for anterior ST-elevation myocardial infarction: a more precise definition of reperfusion arrhythmias. <i>Europace</i> , 2008 , 10, 988-97	3.9	28
172	Catheter sizes for quantitative coronary arteriography. <i>Catheterization and Cardiovascular Diagnosis</i> , 1994 , 33, 153-5; discussion 156		28
171	Fractional flow reserve in clinical practice: from wire-based invasive measurement to image-based computation. <i>European Heart Journal</i> , 2020 , 41, 3271-3279	9.5	28
170	Automatic detection and quantification of the Agatston coronary artery calcium score on contrast computed tomography angiography. <i>International Journal of Cardiovascular Imaging</i> , 2015 , 31, 151-61	2.5	27
169	Accurate and reproducible mitral valvular blood flow measurement with three-directional velocity-encoded magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2004 , 6, 767-76	6.9	27
168	Detection of areas with viable remnant tumor in postchemotherapy patients with Ewing's sarcoma by dynamic contrast-enhanced MRI using pharmacokinetic modeling. <i>Magnetic Resonance Imaging</i> , 2000 , 18, 525-35	3.3	27
167	Assessment of regional left ventricular wall parameters from short axis magnetic resonance imaging using a three-dimensional extension to the improved centerline method. <i>Investigative Radiology</i> , 1997 , 32, 529-39	10.1	27
166	Detection of pollen grains in multifocal optical microscopy images of air samples. <i>Microscopy Research and Technique</i> , 2009 , 72, 424-30	2.8	26
165	Quantitative angiography methods for bifurcation lesions: a consensus statement update from the European Bifurcation Club. <i>EuroIntervention</i> , 2017 , 13, 115-123	3.1	26
164	Magnetic resonance angiography of dialysis access shunts: initial results. <i>Magnetic Resonance Imaging</i> , 1996 , 14, 197-200	3.3	25
163	Fractional flow reserve and coronary bifurcation anatomy: a novel quantitative model to assess and report the stenosis severity of bifurcation lesions. <i>JACC: Cardiovascular Interventions</i> , 2015 , 8, 564-74	5	24
162	Assessment with multi-slice computed tomography and gray-scale and virtual histology intravascular ultrasound of gender-specific differences in extent and composition of coronary atherosclerotic plaques in relation to age. <i>American Journal of Cardiology</i> , 2010 , 105, 480-6	3	24

161	Accurate quantitation of regurgitant volume with MRI in patients selected for mitral valve repair. <i>European Journal of Cardio-thoracic Surgery</i> , 2005 , 27, 462-6; discussion 467	3	24
160	Assessment of the progression of emphysema by quantitative analysis of spirometrically gated computed tomography images. <i>Investigative Radiology</i> , 1996 , 31, 761-7	10.1	24
159	Clinical Implication of Quantitative Flow Ratio After Percutaneous Coronary Intervention for 3-Vessel Disease. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 2064-2075	5	23
158	Echogenicity as a surrogate for bioresorbable everolimus-eluting scaffold degradation: analysis at 1-, 3-, 6-, 12-, 18-, 24-, 30-, 36- and 42-month follow-up in a porcine model. <i>International Journal of Cardiovascular Imaging</i> , 2015 , 31, 471-82	2.5	23
157	Toward magnetic resonance-guided electroanatomical voltage mapping for catheter ablation of scar-related ventricular tachycardia: a comparison of registration methods. <i>Journal of Cardiovascular Electrophysiology</i> , 2012 , 23, 74-80	2.7	23
156	In vivo flow simulation at coronary bifurcation reconstructed by fusion of 3-dimensional X-ray angiography and optical coherence tomography. <i>Circulation: Cardiovascular Interventions</i> , 2013 , 6, e15-7 ⁶		23
155	New approach to quantitative angiographic assessment after stent implantation. <i>Catheterization and Cardiovascular Diagnosis</i> , 1997 , 40, 343-7		23
154	Automated tracking of the mitral valve annulus motion in apical echocardiographic images using multidimensional dynamic programming. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 1389-99	3.5	23
153	Scan optimization of gadolinium contrast-enhanced three-dimensional MRA of peripheral arteries with multiple bolus injections and in vitro validation of stenosis quantification. <i>Magnetic Resonance Imaging</i> , 1999 , 17, 47-57	3.3	23
152	Noninvasive Prediction of Atherosclerotic Progression: The PROSPECT-MSCT Study. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 1009-11	8.4	22
151	New approaches for the assessment of vessel sizes in quantitative (cardio-)vascular X-ray analysis. <i>International Journal of Cardiovascular Imaging</i> , 2010 , 26, 259-71	2.5	22
150	Automated contour detection in X-ray left ventricular angiograms using multiview active appearance models and dynamic programming. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 1158-71 ^{11.7}		22
149	One core laboratory at two international sites, is that feasible? An inter-core laboratory and intra-observer variability study. <i>Catheterization and Cardiovascular Interventions</i> , 2002 , 56, 333-40	2.7	22
148	Automated and accurate assessment of the distribution, magnitude, and direction of pincushion distortion in angiographic images. <i>Investigative Radiology</i> , 1995 , 30, 204-13	10.1	22
147	Quantitative analysis of computed tomography scans of the lungs for the diagnosis of pulmonary emphysema. A validation study of a semiautomated contour detection technique. <i>Investigative Radiology</i> , 1995 , 30, 552-62	10.1	22
146	Magnetic resonance imaging assessment of reverse left ventricular remodeling late after restrictive mitral annuloplasty in early stages of dilated cardiomyopathy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2008 , 135, 1247-52; discussion 1252-3	1.5	21
145	Reproducibility of wall shear stress assessment with the paraboloid method in the internal carotid artery with velocity encoded MRI in healthy young individuals. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 598-605	5.6	20
144	Pravastatin decreases wall shear stress and blood velocity in the internal carotid artery without affecting flow volume: results from the PROSPER MRI study. <i>Stroke</i> , 2007 , 38, 1374-6	6.7	20

143	A novel approach for the detection of pathlines in X-ray angiograms: the wavefront propagation algorithm. <i>International Journal of Cardiovascular Imaging</i> , 2002 , 18, 317-24		20
142	Randomized, controlled trial of secondary prevention of coronary sclerosis in normocholesterolemic patients using pravastatin: final 5-year angiographic follow-up of the Prevention of Coronary Sclerosis (PCS) study. <i>International Journal of Cardiology</i> , 2004 , 97, 107-14	3.2	20
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