

Johan H C Reiber

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.

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	Editor's choice to the May 2022 issue. <i>International Journal of Cardiovascular Imaging</i> , 2022 , 38, 915		
285	Angiography-Based 4-Dimensional Superficial Wall Strain and Stress: A New Diagnostic Tool in the Catheterization Laboratory. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 667310	5.4	1
284	Comparative effectiveness of coronary artery stenosis and atherosclerotic plaque burden assessment for predicting 30-day revascularization and 2-year major adverse cardiac events. <i>International Journal of Cardiovascular Imaging</i> , 2020 , 36, 2365-2375	2.5	0
283	The Aging Imageomics Study: rationale, design and baseline characteristics of the study population. <i>Mechanisms of Ageing and Development</i> , 2020 , 189, 111257	5.6	6
282	Predictive value of the QFR in detecting vulnerable plaques in non-flow limiting lesions: a combined analysis of the PROSPECT and IBIS-4 study. <i>International Journal of Cardiovascular Imaging</i> , 2020 , 36, 993-1002	2.5	3
281	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
280	Prognostic Influence of Feature Tracking Multidetector Row Computed Tomography-Derived Left Ventricular Global Longitudinal Strain in Patients with Aortic Stenosis Treated With Transcatheter Aortic Valve Implantation. <i>American Journal of Cardiology</i> , 2020 , 125, 948-955	3	2
279	Feature tracking computed tomography-derived left ventricular global longitudinal strain in patients with aortic stenosis: a comparative analysis with echocardiographic measurements. <i>Journal of Cardiovascular Computed Tomography</i> , 2020 , 14, 240-245	2.8	4
278	Endothelial shear stress and vascular remodeling in bioresorbable scaffold and metallic stent. <i>Atherosclerosis</i> , 2020 , 312, 79-89	3.1	
277	Cardiovascular imaging of women and men visiting the outpatient clinic with chest pain or discomfort: design and rationale of the ARGUS Study. <i>BMJ Open</i> , 2020 , 10, e040712	3	1
276	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
275	Comparison of Diagnostic Performance of Quantitative Flow Ratio in Patients With Versus Without Diabetes Mellitus. <i>American Journal of Cardiology</i> , 2019 , 123, 1722-1728	3	6
274	A novel software tool for semi-automatic quantification of thoracic aorta dilatation on baseline and follow-up computed tomography angiography. <i>International Journal of Cardiovascular Imaging</i> , 2019 , 35, 711-723	2.5	10
273	Post-implantation shear stress assessment: an emerging tool for differentiation of bioresorbable scaffolds. <i>International Journal of Cardiovascular Imaging</i> , 2019 , 35, 409-418	2.5	4
272	Quantification of disturbed coronary flow by disturbed vorticity index and relation with fractional flow reserve. <i>Atherosclerosis</i> , 2018 , 273, 136-144	3.1	12
271	Local Flow Patterns After Implantation of Bioresorbable Vascular Scaffold in Coronary Bifurcations - Novel Findings by Computational Fluid Dynamics. <i>Circulation Journal</i> , 2018 , 82, 1575-1583	2.9	5
270	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

269	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
268	Analyses of aerodynamic characteristics of the oropharynx applying CBCT: obstructive sleep apnea patients versus control subjects. <i>Dentomaxillofacial Radiology</i> , 2018 , 47, 20170238	3.9	10
267	In-stent fractional flow reserve variations and related optical coherence tomography findings: the FFR-OCT co-registration study. <i>International Journal of Cardiovascular Imaging</i> , 2018 , 34, 495-502	2.5	3
266	Invasive assessment of coronary artery disease. <i>Journal of Nuclear Cardiology</i> , 2018 , 25, 860-871	2.1	4
265	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
264	Quantification of aortic annulus in computed tomography angiography: Validation of a fully automatic methodology. <i>European Journal of Radiology</i> , 2017 , 93, 1-8	4.7	6
263	Cardiovascular imaging 2016 in the International Journal of Cardiovascular Imaging. <i>International Journal of Cardiovascular Imaging</i> , 2017 , 33, 761-770	2.5	0
262	Automatic identification of coronary tree anatomy in coronary computed tomography angiography. <i>International Journal of Cardiovascular Imaging</i> , 2017 , 33, 1809-1819	2.5	14
261	Assessment of endothelial shear stress in patients with mild or intermediate coronary stenoses using coronary computed tomography angiography: comparison with invasive coronary angiography. <i>International Journal of Cardiovascular Imaging</i> , 2017 , 33, 1101-1110	2.5	4
260	Anatomical and functional assessment of Tryton bifurcation stent before and after final kissing balloon dilatation: Evaluations by three-dimensional coronary angiography, optical coherence tomography imaging and fractional flow reserve. <i>Catheterization and Cardiovascular Interventions</i> , 2017 , 90, E1-E10	2.7	3
259	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
258	A novel four-dimensional angiographic approach to assess dynamic superficial wall stress of coronary arteries in vivo: initial experience in evaluating vessel sites with subsequent plaque rupture. <i>EuroIntervention</i> , 2017 , 13, e1099-e1103	3.1	6
257	Noninvasive Prediction of Atherosclerotic Progression: The PROSPECT-MSCT Study. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 1009-11	8.4	22
256	Automatic detection of aorto-femoral vessel trajectory from whole-body computed tomography angiography data sets. <i>International Journal of Cardiovascular Imaging</i> , 2016 , 32, 1311-22	2.5	4
255	Enhanced characterization of calcified areas in intravascular ultrasound virtual histology images by quantification of the acoustic shadow: validation against computed tomography coronary angiography. <i>International Journal of Cardiovascular Imaging</i> , 2016 , 32, 543-52	2.5	9
254	Total coronary atherosclerotic plaque burden assessment by CT angiography for detecting obstructive coronary artery disease associated with myocardial perfusion abnormalities. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 121-7	2.8	14
253	The impact of image resolution on computation of fractional flow reserve: coronary computed tomography angiography versus 3-dimensional quantitative coronary angiography. <i>International Journal of Cardiovascular Imaging</i> , 2016 , 32, 513-23	2.5	11
252	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

251	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
250	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
249	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
248	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
247	Non-culprit coronary lesions in young patients have higher rates of atherosclerotic progression. <i>International Journal of Cardiovascular Imaging</i> , 2015 , 31, 889-97	2.5	5
246	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
245	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting: Expert Review Document on Techniques and Clinical Implementation. <i>JACC: Cardiovascular Interventions</i> , 2015 , 8, 1281-5	296	65
244	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
243	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
242	Is it safe to implant bioresorbable scaffolds in ostial side-branch lesions? Impact of 'neo-carina' formation on main-branch flow pattern. Longitudinal clinical observations. <i>Atherosclerosis</i> , 2015 , 238, 22-5	3.1	8
241	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
240	An automated tool for cortical feature analysis: Application to differences on 7 Tesla T ₂ -weighted images between young and older healthy subjects. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 240-248	4.4	3
239	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
238	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
237	Cardiovascular imaging 2013 in the International Journal of Cardiovascular Imaging. <i>International Journal of Cardiovascular Imaging</i> , 2014 , 30, 683-95	2.5	2
236	3D assessment of stent cell size and side branch access in intravascular optical coherence tomographic pullback runs. <i>Computerized Medical Imaging and Graphics</i> , 2014 , 38, 113-22	7.6	17
235	Feasibility of an automated quantitative computed tomography angiography-derived risk score for risk stratification of patients with suspected coronary artery disease. <i>American Journal of Cardiology</i> , 2014 , 113, 1947-55	3	19
234	Myocardial stress perfusion-fibrosis imaging pattern in sarcoidosis, assessed by cardiovascular magnetic resonance imaging. <i>International Journal of Cardiology</i> , 2014 , 172, 501-3	3.2	10

233	Hippocampal atrophy in people with memory deficits: results from the population-based IPREA study. <i>International Psychogeriatrics</i> , 2014 , 26, 1067-81	3.4	16
232	Fully automated side branch detection in intravascular optical coherence tomography pullback runs. <i>Biomedical Optics Express</i> , 2014 , 5, 3160-73	3.5	8
231	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
230	Texture analysis of ultrahigh field T2*-weighted MR images of the brain: application to Huntington's disease. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 39, 633-40	5.6	7
229	THE FUSION OF THREE-DIMENSIONAL QUANTITATIVE CORONARY ANGIOGRAPHY AND INTRACORONARY IMAGING FOR CORONARY INTERVENTIONS. <i>Series in Computer Vision</i> , 2014 , 151-173		
228	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
227	The maximum necrotic core area is most often located proximally to the site of most severe narrowing: a virtual histology intravascular ultrasound study. <i>Heart and Vessels</i> , 2013 , 28, 166-72	2.1	13
226	Cardiovascular imaging 2012 in the International Journal of Cardiovascular Imaging. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 725-36	2.5	
225	Detection of coronary plaques using MR coronary vessel wall imaging: validation of findings with intravascular ultrasound. <i>European Radiology</i> , 2013 , 23, 115-24	8	19
224	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
223	Stress cardiac magnetic resonance reveals myocardial perfusion impairment in asymptomatic diabetes mellitus type I, missed by the routine non-invasive evaluation. <i>International Journal of Cardiology</i> , 2013 , 167, e167-9	3.2	3
222	Stress perfusion-fibrosis cardiac magnetic resonance detects early heart involvement in young asymptomatic, homozygous familial hyperlipidemia with normal routine non-invasive evaluation. <i>International Journal of Cardiology</i> , 2013 , 168, 4570-2	3.2	1
221	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
220	Optimization of Tryton dedicated coronary bifurcation system with coregistration of optical coherence tomography and fractional flow reserve. <i>JACC: Cardiovascular Interventions</i> , 2013 , 6, e39-40	5	5
219	The reproducibility of cardiac and liver T2* measurement in thalassemia major using two different software packages. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 1511	2.5	14
218	Response to letters regarding article, "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 , 128, e463-4	16.7	1
217	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
216	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

215	Clinical validation of the new T- and Y-shape models for the quantitative analysis of coronary bifurcations: an interobserver variability study. <i>Catheterization and Cardiovascular Interventions</i> , 2013 , 81, E225-36	2.7	9
214	Associations between magnetic resonance imaging measures and neuropsychological impairment in early and late onset alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2013 , 35, 169-78	4.3	18
213	An objective method to optimize the MR sequence set for plaque classification in carotid vessel wall images using automated image segmentation. <i>PLoS ONE</i> , 2013 , 8, e78492	3.7	1
212	Co-registration of fractional flow reserve and optical coherence tomography with the use of a three-dimensional angiographic roadmap: an opportunity for optimisation of complex percutaneous coronary interventions. <i>EuroIntervention</i> , 2013 , 9, 889	3.1	6
211	Cardiac MR perfusion image processing techniques: a survey. <i>Medical Image Analysis</i> , 2012 , 16, 767-85	15.4	28
210	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
209	Automatic radiographic quantification of hand osteoarthritis; accuracy and sensitivity to change in joint space width in a phantom and cadaver study. <i>Skeletal Radiology</i> , 2012 , 41, 41-9	2.7	8
208	Automated quantification of carotid artery stenosis on contrast-enhanced MRA data using a deformable vascular tube model. <i>International Journal of Cardiovascular Imaging</i> , 2012 , 28, 1513-24	2.5	9
207	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
206	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
205	First presentation of 3-dimensional reconstruction and centerline-guided assessment of coronary bifurcation by fusion of X-ray angiography and optical coherence tomography. <i>JACC: Cardiovascular Interventions</i> , 2012 , 5, 884-5	5	10
204	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
203	Combined magnitude and phase-based segmentation of the cerebral cortex in 7T MR images of the elderly. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 99-109	5.6	5
202	Evaluation of sampling density on the accuracy of aortic pulse wave velocity from velocity-encoded MRI in patients with Marfan syndrome. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 1470-6	5.6	11
201	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
200	Cardiovascular imaging 2011 in the International Journal of Cardiovascular Imaging. <i>International Journal of Cardiovascular Imaging</i> , 2012 , 28, 439-51	2.5	
199	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
198	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

197	Carina shift as a mechanism for side-branch compromise following main vessel intervention: insights from three-dimensional optical coherence tomography. <i>Cardiovascular Diagnosis and Therapy</i> , 2012 , 2, 173-7	2.6	5
196	Evaluating Visualisations and Automatic Warning Cues for Visual Search in Vascular Images 2012 , 68-83		
195	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
194	Non-parametric model selection for subject-specific topological organization of resting-state functional connectivity. <i>NeuroImage</i> , 2011 , 56, 1453-62	7.9	7
193	Recent Advances in MRI Based Volumetry and Morphometry for AD Diagnosis in Human. <i>Current Medical Imaging</i> , 2011 , 7, 34-42	1.2	1
192	Shape abnormalities of the striatum in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2011 , 23, 49-53	4.3	35
191	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
190	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
189	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
188	Dedicated bifurcation analysis: basic principles. <i>International Journal of Cardiovascular Imaging</i> , 2011 , 27, 167-74	2.5	18
187	Fusion of 3D QCA and IVUS/OCT. <i>International Journal of Cardiovascular Imaging</i> , 2011 , 27, 197-207	2.5	59
186	Cardiovascular imaging 2010 in the International Journal of Cardiovascular Imaging. <i>International Journal of Cardiovascular Imaging</i> , 2011 , 27, 309-19	2.5	2
185	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
184	Automated regional wall motion abnormality detection by combining rest and stress cardiac MRI: correlation with contrast-enhanced MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 270-8	5.6	7
183	Gastric volume changes in response to a meal: validation of magnetic resonance imaging versus the barostat. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 685-90	5.6	6
182	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
181	The impact of acquisition angle differences on three-dimensional quantitative coronary angiography. <i>Catheterization and Cardiovascular Interventions</i> , 2011 , 78, 214-22	2.7	18
180	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

179	Diastolic carotid artery wall shear stress is associated with cerebral infarcts and periventricular white matter lesions. <i>Stroke</i> , 2011 , 42, 3497-501	6.7	19
178	Eureka?. <i>Radiology</i> , 2011 , 259, 610-1; author reply 611-2	20.5	
177	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
176	QCA, IVUS and OCT in interventional cardiology in 2011. <i>Cardiovascular Diagnosis and Therapy</i> , 2011 , 1, 57-70	2.6	16
175	Use of three-dimensional optical coherence tomography to verify correct wire position in a jailed side branch after main vessel stent implantation. <i>EuroIntervention</i> , 2011 , 7, 528-9	3.1	9
174	Quantitative evaluation of Compressed Sensing in MRI: Application to 7T time-of-flight angiography 2010 ,		6
173	Improved viscosity modeling in patients with type 2 diabetes mellitus by accounting for enhanced red blood cell aggregation tendency. <i>Clinical Hemorheology and Microcirculation</i> , 2010 , 44, 303-13	2.5	3
172	Fully automatic registration and segmentation of first-pass myocardial perfusion MR image sequences. <i>Academic Radiology</i> , 2010 , 17, 1375-85	4.3	18
171	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
170	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
169	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
168	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
167	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
166	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
165	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	39
164	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
163	Model driven quantification of left ventricular function from sparse single-beat 3D echocardiography. <i>Medical Image Analysis</i> , 2010 , 14, 582-93	15.4	14
162	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

161	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
160	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
159	Effect of caldaret on the incidence of severe left ventricular dysfunction in patients with ST-elevation myocardial infarction undergoing primary coronary intervention. <i>American Journal of Cardiology</i> , 2009 , 103, 1-4	3	11
158	Hierarchical functional modularity in the resting-state human brain. <i>Human Brain Mapping</i> , 2009 , 30, 2220-31	5.9	147
157	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
156	Coronary angiography enhancement for visualization. <i>International Journal of Cardiovascular Imaging</i> , 2009 , 25, 657-67	2.5	5
155	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
154	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
153	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
152	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
151	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
150	Sparse registration for three-dimensional stress echocardiography. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1568-79	11.7	16
149	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
148	Autonomous virtual mobile robot for three-dimensional medical image exploration: application to micro-CT cochlear images. <i>Artificial Intelligence in Medicine</i> , 2008 , 43, 1-15	7.4	6
147	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
146	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
145	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
144	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

143	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
142	Metamodel-assisted mixed integer evolution strategies and their application to intravascular ultrasound image analysis 2008 ,		4
141	Ventricular shape biomarkers for Alzheimer's disease in clinical MR images. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 260-7	4.4	43
140	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
139	GAMES: growing and adaptive meshes for fully automatic shape modeling and analysis. <i>Medical Image Analysis</i> , 2007 , 11, 302-14	15.4	33
138	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
137	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
136	Automated contour detection in cardiac MRI using active appearance models: the effect of the composition of the training set. <i>Investigative Radiology</i> , 2007 , 42, 697-703	10.1	10
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