

Ren M Botnar

List of Publications by Citations

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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.

348
papers

12,052
citations

55
h-index

96
g-index

378
ext. papers

13,831
ext. citations

6.8
avg, IF

6.11
L-index

#	Paper	IF	Citations
348	Coronary magnetic resonance angiography for the detection of coronary stenoses. <i>New England Journal of Medicine</i> , 2001 , 345, 1863-9	59.2	1136
347	Double-oblique free-breathing high resolution three-dimensional coronary magnetic resonance angiography. <i>Journal of the American College of Cardiology</i> , 1999 , 34, 524-31	15.1	303
346	Detection of pulmonary vein and left atrial scar after catheter ablation with three-dimensional navigator-gated delayed enhancement MR imaging: initial experience. <i>Radiology</i> , 2007 , 243, 690-5	20.5	264
345	Three-dimensional black-blood cardiac magnetic resonance coronary vessel wall imaging detects positive arterial remodeling in patients with nonsignificant coronary artery disease. <i>Circulation</i> , 2002 , 106, 296-9	16.7	247
344	In vivo molecular imaging of acute and subacute thrombosis using a fibrin-binding magnetic resonance imaging contrast agent. <i>Circulation</i> , 2004 , 109, 2023-9	16.7	240
343	"Soap-Bubble" visualization and quantitative analysis of 3D coronary magnetic resonance angiograms. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 658-66	4.4	225
342	Bisphosphonate-anchored PEGylation and radiolabeling of superparamagnetic iron oxide: long-circulating nanoparticles for in vivo multimodal (T1 MRI-SPECT) imaging. <i>ACS Nano</i> , 2013 , 7, 500-12	16.7	221
341	Submillimeter three-dimensional coronary MR angiography with real-time navigator correction: comparison of navigator locations. <i>Radiology</i> , 1999 , 212, 579-87	20.5	220
340	Preliminary report on in vivo coronary MRA at 3 Tesla in humans. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 425-9	4.4	193
339	In vivo magnetic resonance imaging of coronary thrombosis using a fibrin-binding molecular magnetic resonance contrast agent. <i>Circulation</i> , 2004 , 110, 1463-6	16.7	179
338	Coronary magnetic resonance angiography in adolescents and young adults with kawasaki disease. <i>Circulation</i> , 2002 , 105, 908-11	16.7	172
337	Age and sex distribution of subclinical aortic atherosclerosis: a magnetic resonance imaging examination of the Framingham Heart Study. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002 , 22, 849-54	9.4	168
336	MR imaging of thrombi using EP-2104R, a fibrin-specific contrast agent: initial results in patients. <i>European Radiology</i> , 2008 , 18, 1995-2005	8	157
335	Magnetic conjugated polymer nanoparticles as bimodal imaging agents. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9833-42	16.4	152
334	Assessment of atherosclerotic plaque burden with an elastin-specific magnetic resonance contrast agent. <i>Nature Medicine</i> , 2011 , 17, 383-8	50.5	147
333	Molecular magnetic resonance imaging of atrial clots in a swine model. <i>Circulation</i> , 2005 , 112, 396-9	16.7	147
332	Contrast agent-enhanced, free-breathing, three-dimensional coronary magnetic resonance angiography. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 10, 790-9	5.6	140

331	Cardiovascular magnetic resonance phase contrast imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 71	6.9	135
330	Hemodynamics in the carotid artery bifurcation: a comparison between numerical simulations and in vitro MRI measurements. <i>Journal of Biomechanics</i> , 2000 , 33, 137-44	2.9	133
329	Molecular magnetic resonance imaging of coronary thrombosis and pulmonary emboli with a novel fibrin-targeted contrast agent. <i>Circulation</i> , 2005 , 111, 1377-82	16.7	129
328	Whole-heart coronary MR angiography with 2D self-navigated image reconstruction. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 437-45	4.4	115
327	Dual cardiac-respiratory gated PET: implementation and results from a feasibility study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007 , 34, 1447-54	8.8	113
326	3D coronary vessel wall imaging utilizing a local inversion technique with spiral image acquisition. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 848-54	4.4	113
325	Impact of bulk cardiac motion on right coronary MR angiography and vessel wall imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 14, 383-90	5.6	112
324	Inherently self-calibrating non-Cartesian parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1-8	4.4	110
323	Noninvasive magnetic resonance imaging evaluation of endothelial permeability in murine atherosclerosis using an albumin-binding contrast agent. <i>Circulation</i> , 2012 , 126, 707-19	16.7	100
322	Highly efficient respiratory motion compensated free-breathing coronary MRA using golden-step Cartesian acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 738-46	5.6	99
321	Combined reporter gene PET and iron oxide MRI for monitoring survival and localization of transplanted cells in the rat heart. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 1088-94	8.9	99
320	Subclinical coronary and aortic atherosclerosis detected by magnetic resonance imaging in type 1 diabetes with and without diabetic nephropathy. <i>Circulation</i> , 2007 , 115, 228-35	16.7	98
319	Serial contrast-enhanced cardiac magnetic resonance imaging demonstrates regression of hyperenhancement within the coronary artery wall in patients after acute myocardial infarction. <i>JACC: Cardiovascular Imaging</i> , 2009 , 2, 580-8	8.4	90
318	Delayed-enhancement cardiovascular magnetic resonance coronary artery wall imaging: comparison with multislice computed tomography and quantitative coronary angiography. <i>Journal of the American College of Cardiology</i> , 2007 , 50, 441-7	15.1	89
317	Selective coronary artery plaque visualization and differentiation by contrast-enhanced inversion prepared MRI. <i>European Heart Journal</i> , 2006 , 27, 1732-6	9.5	84
316	Role of miR-195 in aortic aneurysmal disease. <i>Circulation Research</i> , 2014 , 115, 857-66	15.7	82
315	Comparison of aortic elasticity determined by cardiovascular magnetic resonance imaging in obese versus lean adults. <i>American Journal of Cardiology</i> , 2003 , 91, 195-9	3	80
314	A Digital Preclinical PET/MRI Insert and Initial Results. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 2258-70	11.7	79

313	Automatic scar segmentation in dual inversion recovery images is more consistent with manual outlining than in conventional inversion recovery images. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
312	Whole-heart contrast enhanced coronary magnetic resonance angiography using respiratory image based navigation in patients with congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
311	Multi-sequence non-contrast MRI characterization of deep vein thrombosis in man. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
310	Coronary MR Angiography in patients with coronary artery disease using image-based respiratory motion compensation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
309	First pass vasodilator-stress myocardial perfusion CMR in mice on a whole-body 3Tesla scanner: validation against microspheres. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
308	Coronary MR angiography in children during systole and diastole using a dual cardiac phase scan of the whole heart. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
307	Contrast-enhanced MR imaging of pulmonary arteries: new imaging strategies using different contrast agents. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
306	Imaging of aortic coarctation using Gd-DTPA and Gadofosveset: a comparative study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
305	Navigator-gated free-breathing three-dimensional balanced fast field echo (TrueFISP) coronary magnetic resonance angiography. <i>Investigative Radiology</i> , 2002 , 37, 637-42	10.1	77
304	High-frequency speckle tracking echocardiography in the assessment of left ventricular function and remodeling after murine myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H1371-83	5.2	72
303	Free-breathing 3D steady-state free precession coronary MR angiography with radial k-space sampling: comparison with cartesian k-space sampling and cartesian gradient-echo coronary MR angiography--pilot study. <i>Radiology</i> , 2004 , 231, 581-6	20.5	72
302	Highly efficient nonrigid motion-corrected 3D whole-heart coronary vessel wall imaging. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1894-1908	4.4	66
301	Three-dimensional high-resolution fast spin-echo coronary magnetic resonance angiography. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 206-11	4.4	65
300	Free-breathing black-blood coronary MR angiography: initial results. <i>Radiology</i> , 2001 , 219, 278-83	20.5	65
299	Magnetic resonance T1 relaxation time of venous thrombus is determined by iron processing and predicts susceptibility to lysis. <i>Circulation</i> , 2013 , 128, 729-736	16.7	64
298	Differential impact of age, sex, and hypertension on aortic atherosclerosis: the Framingham Heart Study. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 155-9	9.4	63
297	Detection of coronary artery anomalies in infants and young children with congenital heart disease by using MR imaging. <i>Radiology</i> , 2011 , 259, 240-7	20.5	62
296	MRI of coronary wall remodeling in a swine model of coronary injury using an elastin-binding contrast agent. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 147-55	3.9	61

295	Direct comparison of 3D spiral vs. Cartesian gradient-echo coronary magnetic resonance angiography. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 789-94	4.4	59
294	Coronary magnetic resonance angiography and vessel wall imaging in children with Kawasaki disease. <i>Pediatric Radiology</i> , 2007 , 37, 666-73	2.8	58
293	Molecular imaging of cardiac remodelling after myocardial infarction. <i>Basic Research in Cardiology</i> , 2018 , 113, 10	11.8	55
292	Free-breathing 3D coronary MRA: the impact of "isotropic" image resolution. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 11, 389-93	5.6	55
291	Renal arteries: navigator-gated balanced fast field-echo projection MR angiography with aortic spin labeling: initial experience. <i>Radiology</i> , 2002 , 225, 589-96	20.5	54
290	Molecular imaging of early $\alpha\beta$ integrin expression predicts long-term left-ventricle remodeling after myocardial infarction in rats. <i>Journal of Nuclear Medicine</i> , 2012 , 53, 318-23	8.9	53
289	A new ¹⁸ F-labeled myocardial PET tracer: myocardial uptake after permanent and transient coronary occlusion in rats. <i>Journal of Nuclear Medicine</i> , 2008 , 49, 1715-22	8.9	52
288	Molecular magnetic resonance imaging of pulmonary emboli with a fibrin-specific contrast agent. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 172, 494-500	10.2	52
287	Molecular magnetic resonance imaging of myocardial perfusion with EP-3600, a collagen-specific contrast agent: initial feasibility study in a swine model. <i>Circulation</i> , 2009 , 119, 1768-75	16.7	50
286	Coronary MR angiography: comparison of quantitative and qualitative data from four techniques. <i>American Journal of Roentgenology</i> , 2004 , 182, 515-21	5.4	50
285	Molecular MR imaging of human thrombi in a swine model of pulmonary embolism using a fibrin-specific contrast agent. <i>Investigative Radiology</i> , 2007 , 42, 586-95	10.1	49
284	Scan reproducibility of magnetic resonance imaging assessment of aortic atherosclerosis burden. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2001 , 3, 331-8	6.9	49
283	Five-minute whole-heart coronary MRA with sub-millimeter isotropic resolution, 100% respiratory scan efficiency, and 3D-PROST reconstruction. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 102-115	4.4	48
282	Magnetic resonance imaging of myocardial injury and ventricular torsion after marathon running. <i>Clinical Science</i> , 2011 , 120, 143-52	6.5	48
281	Initial experiences with in vivo right coronary artery human MR vessel wall imaging at 3 tesla. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2003 , 5, 589-94	6.9	48
280	CINENet: deep learning-based 3D cardiac CINE MRI reconstruction with multi-coil complex-valued 4D spatio-temporal convolutions. <i>Scientific Reports</i> , 2020 , 10, 13710	4.9	48
279	Fibrin-targeted magnetic resonance imaging allows in vivo quantification of thrombus fibrin content and identifies thrombi amenable for thrombolysis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1193-1198	9.4	47
278	Late gadolinium enhancement of acute myocardial infarction in mice at 7T: cine-FLASH versus inversion recovery. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 878-86	5.6	45

277	Impact of navigator timing on free-breathing submillimeter 3D coronary magnetic resonance angiography. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 196-201	4.4	45
276	First-pass contrast-enhanced myocardial perfusion MRI in mice on a 3-T clinical MR scanner. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1592-8	4.4	44
275	Temperature quantification using the proton frequency shift technique: In vitro and in vivo validation in an open 0.5 tesla interventional MR scanner during RF ablation. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 13, 437-44	5.6	44
274	A fast 3D approach for coronary MRA. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 10, 821-5	5.6	44
273	Flow quantitation with echo-planar phase-contrast velocity mapping: in vitro and in vivo evaluation. <i>Journal of Magnetic Resonance Imaging</i> , 1995 , 5, 656-62	5.6	44
272	High-dimensionality undersampled patch-based reconstruction (HD-PROST) for accelerated multi-contrast MRI. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 3705-3719	4.4	43
271	Noninvasive assessment of atherosclerotic plaque progression in ApoE ^{-/-} mice using susceptibility gradient mapping. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 295-303	3.9	41
270	Gd-containing conjugated polymer nanoparticles: bimodal nanoparticles for fluorescence and MRI imaging. <i>Nanoscale</i> , 2014 , 6, 8376-86	7.7	40
269	Coronary vessel wall contrast enhancement imaging as a potential direct marker of coronary involvement: integration of findings from CAD and SLE patients. <i>JACC: Cardiovascular Imaging</i> , 2014 , 7, 762-70	8.4	40
268	Whole-heart coronary MRA with 3D affine motion correction using 3D image-based navigation. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 173-81	4.4	40
267	In vivo magnetization transfer and diffusion-weighted magnetic resonance imaging detects thrombus composition in a mouse model of deep vein thrombosis. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 433-440	3.9	40
266	Selective three-dimensional visualization of the coronary arterial lumen using arterial spin tagging. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 322-9	4.4	40
265	In vivo assessment of aortic aneurysm wall integrity using elastin-specific molecular magnetic resonance imaging. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 679-89	3.9	39
264	Prospective respiratory motion correction for coronary MR angiography using a 2D image navigator. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 486-94	4.4	39
263	The impact of spatial resolution and respiratory motion on MR imaging of atherosclerotic plaque. <i>Journal of Magnetic Resonance Imaging</i> , 2003 , 17, 538-44	5.6	39
262	Protein kinase G oxidation is a major cause of injury during sepsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9909-13	11.5	38
261	Monitoring of radio frequency tissue ablation in an interventional magnetic resonance environment. Preliminary ex vivo and in vivo results. <i>Investigative Radiology</i> , 1997 , 32, 671-8	10.1	38
260	Congenital heart disease: cardiovascular MR imaging by using an intravascular blood pool contrast agent. <i>Radiology</i> , 2011 , 260, 680-8	20.5	37

259	3D myocardial T mapping using saturation recovery. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 218-227	5.6	36
258	In vivo assessment of intraplaque and endothelial fibrin in ApoE(-/-) mice by molecular MRI. <i>Atherosclerosis</i> , 2012 , 222, 43-9	3.1	36
257	100% Efficient three-dimensional coronary MR angiography with two-dimensional beat-to-beat translational and bin-to-bin affine motion correction. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 756-64	4.4	35
256	Correction for heart rate variability improves coronary magnetic resonance angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 22, 577-82	5.6	35
255	Elastin imaging enables noninvasive staging and treatment monitoring of kidney fibrosis. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	34
254	Motion-corrected simultaneous cardiac positron emission tomography and coronary MR angiography with high acquisition efficiency. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 339-350	4.4	34
253	Assessment of myocardial infarction and postinfarction scar remodeling with an elastin-specific magnetic resonance agent. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 321-9	3.9	34
252	Breathhold three-dimensional coronary magnetic resonance angiography using real-time navigator technology. <i>Journal of Cardiovascular Magnetic Resonance</i> , 1999 , 1, 233-8	6.9	34
251	Coronary magnetic resonance imaging: visualization of the vessel lumen and the vessel wall and molecular imaging of arteriothrombosis. <i>European Radiology</i> , 2006 , 16, 1-14	8	33
250	From Compressed-Sensing to Artificial Intelligence-Based Cardiac MRI Reconstruction. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 17	5.4	32
249	Aspirin-induced histone acetylation in endothelial cells enhances synthesis of the secreted isoform of netrin-1 thus inhibiting monocyte vascular infiltration. <i>British Journal of Pharmacology</i> , 2015 , 172, 3548-64	8.6	32
248	MR imaging of the arterial vessel wall: molecular imaging from bench to bedside. <i>Radiology</i> , 2013 , 269, 34-51	20.5	32
247	Multimodality imaging of subclinical aortic atherosclerosis: relation of aortic stiffness to calcification and plaque in female twins. <i>Hypertension</i> , 2013 , 61, 609-14	8.5	32
246	Characterization of carotid artery plaques with USPIO-enhanced MRI: assessment of inflammation and vascularity as in vivo imaging biomarkers for plaque vulnerability. <i>International Journal of Cardiovascular Imaging</i> , 2011 , 27, 901-12	2.5	32
245	Advanced respiratory motion compensation for coronary MR angiography. <i>Sensors</i> , 2013 , 13, 6882-99	3.8	31
244	Elastin-based molecular MRI of liver fibrosis. <i>Hepatology</i> , 2013 , 58, 1517-8	11.2	31
243	Three-dimensional imaging of the aortic vessel wall using an elastin-specific magnetic resonance contrast agent. <i>Investigative Radiology</i> , 2012 , 47, 438-44	10.1	31
242	Coronary magnetic resonance angiography for assessment of the stent lumen: a phantom study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2002 , 4, 359-67	6.9	31

241	Dark-blood late gadolinium enhancement without additional magnetization preparation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 64	6.9	30
240	Clinical value of dark-blood late gadolinium enhancement cardiovascular magnetic resonance without additional magnetization preparation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 44	6.9	29
239	Flow-independent 3D whole-heart vessel wall imaging using an interleaved T2-preparation acquisition. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 150-7	4.4	29
238	Quantitative assessment of left ventricular function with interactive real-time spiral and radial MR imaging. <i>Radiology</i> , 2003 , 227, 870-6	20.5	29
237	Coronary MR angiography clinical applications and potential for imaging coronary artery disease. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2003 , 11, 81-99	1.6	29
236	Assessment of Myocardial Remodeling Using an Elastin/Tropoelastin Specific Agent with High Field Magnetic Resonance Imaging (MRI). <i>Journal of the American Heart Association</i> , 2015 , 4, e001851	6	28
235	Vascular remodeling and plaque vulnerability in a rabbit model of atherosclerosis: comparison of delayed-enhancement MR imaging with an elastin-specific contrast agent and unenhanced black-blood MR imaging. <i>Radiology</i> , 2014 , 271, 390-9	20.5	28
234	Cardiac MRI to investigate myocardial scar and coronary venous anatomy using a slow infusion of dimeglumine gadobenate in patients undergoing assessment for cardiac resynchronization therapy. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 87-95	5.6	28
233	MR coronary vessel wall imaging: comparison between radial and spiral k-space sampling. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 23, 757-62	5.6	28
232	Navigator-gated coronary magnetic resonance angiography using steady-state-free-precession: comparison to standard T2-prepared gradient-echo and spiral imaging. <i>Investigative Radiology</i> , 2003 , 38, 263-8	10.1	28
231	Motion artifact reduction and vessel enhancement for free-breathing navigator-gated coronary MRA using 3D k-space reordering. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 645-52	4.4	28
230	Molecular imaging of myocardial infarction. <i>Basic Research in Cardiology</i> , 2014 , 109, 397	11.8	26
229	Characterizing radial undersampling artifacts for cardiac applications. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 396-403	4.4	26
228	Initial experiences with in vivo intravascular coronary vessel wall imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2003 , 17, 615-9	5.6	26
227	Characterization of coronary atherosclerosis by magnetic resonance imaging. <i>Circulation</i> , 2013 , 128, 1244-55	16.7	25
226	Molecular MRI of atherosclerosis. <i>Molecules</i> , 2013 , 18, 14042-69	4.8	25
225	Comparison of 3D segmented gradient-echo and steady-state free precession coronary MRI sequences in patients with coronary artery disease. <i>American Journal of Roentgenology</i> , 2005 , 185, 103-9	5.4	25
224	The impact of navigator timing parameters and navigator spatial resolution on 3D coronary magnetic resonance angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 14, 311-8	5.6	25

223	3D whole-heart phase sensitive inversion recovery CMR for simultaneous black-blood late gadolinium enhancement and bright-blood coronary CMR angiography. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 94	6.9	24
222	A new framework for interleaved scanning in cardiovascular MR: Application to image-based respiratory motion correction in coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 692-6	4.4	24
221	Noninvasive MRI monitoring of the effect of interventions on endothelial permeability in murine atherosclerosis using an albumin-binding contrast agent. <i>Journal of the American Heart Association</i> , 2013 , 2, e000402	6	24
220	Constitutive glycogen synthase kinase-3alpha/beta activity protects against chronic beta-adrenergic remodelling of the heart. <i>Cardiovascular Research</i> , 2010 , 87, 494-503	9.9	24
219	Simultaneous Assessment of Cardiac Inflammation and Extracellular Matrix Remodeling after Myocardial Infarction. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11,	3.9	24
218	The emerging role of cardiovascular magnetic resonance in the evaluation of Kawasaki disease. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 1787-98	2.5	23
217	Coronary imaging with cardiovascular magnetic resonance: current state of the art. <i>Progress in Cardiovascular Diseases</i> , 2011 , 54, 240-52	8.5	23
216	Congenital heart disease in children: coronary MR angiography during systole and diastole with dual cardiac phase whole-heart imaging. <i>Radiology</i> , 2011 , 260, 232-40	20.5	23
215	Sandwich immunoassay for soluble glycoprotein VI in patients with symptomatic coronary artery disease. <i>Clinical Chemistry</i> , 2011 , 57, 898-904	5.5	23
214	Three-dimensional dual-phase whole-heart MR imaging: clinical implications for congenital heart disease. <i>Radiology</i> , 2012 , 263, 547-54	20.5	23
213	Superiority of prone position in free-breathing 3D coronary MRA in patients with coronary disease. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 13, 185-91	5.6	23
212	Rigid motion-corrected magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 947-961	4.4	23
211	Free-running 3D whole heart myocardial T mapping with isotropic spatial resolution. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1331-1342	4.4	22
210	Concurrent Molecular Magnetic Resonance Imaging of Inflammatory Activity and Extracellular Matrix Degradation for the Prediction of Aneurysm Rupture. <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e008707	3.9	22
209	A self-normalization reconstruction technique for PET scans using the positron emission data. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 2234-40	11.7	22
208	Detection and grading of coronary allograft vasculopathy in children with contrast-enhanced magnetic resonance imaging of the coronary vessel wall. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 91-8	3.9	22
207	Single breath-hold assessment of cardiac function using an accelerated 3D single breath-hold acquisition technique--comparison of an intravascular and extravascular contrast agent. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 53	6.9	21
206	Multi-parametric liver tissue characterization using MR fingerprinting: Simultaneous T ₁ , T ₂ , T ₂ [*] , and fat fraction mapping. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2625-2635	4.4	20

205	Simultaneous bright- and black-blood whole-heart MRI for noncontrast enhanced coronary lumen and thrombus visualization. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 1460-1472	4.4	20
204	Dual inversion-recovery mr imaging sequence for reduced blood signal on late gadolinium-enhanced images of myocardial scar. <i>Radiology</i> , 2012 , 264, 242-9	20.5	20
203	Comparison of fat suppression strategies in 3D spiral coronary magnetic resonance angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 15, 462-6	5.6	20
202	Nucleic acid delivery to magnetically-labeled cells in a 2D array and at the luminal surface of cell culture tube and their detection by MRI. <i>Journal of Biomedical Nanotechnology</i> , 2009 , 5, 692-706	4	20
201	3D whole-heart isotropic sub-millimeter resolution coronary magnetic resonance angiography with non-rigid motion-compensated PROST. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 24	6.9	20
200	Motion-corrected whole-heart PET-MR for the simultaneous visualisation of coronary artery integrity and myocardial viability: an initial clinical validation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018 , 45, 1975-1986	8.8	20
199	Molecular Imaging of Abdominal Aortic Aneurysms. <i>Trends in Molecular Medicine</i> , 2017 , 23, 150-164	11.5	19
198	Image-navigated 3-dimensional late gadolinium enhancement cardiovascular magnetic resonance imaging: feasibility and initial clinical results. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 97	6.9	19
197	Optimized respiratory-resolved motion-compensated 3D Cartesian coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 2618-2629	4.4	19
196	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
195	Individualized cardiovascular risk assessment by cardiovascular magnetic resonance. <i>Future Cardiology</i> , 2014 , 10, 273-89	1.3	19
194	Visualization of coronary wall atherosclerosis in asymptomatic subjects and patients with coronary artery disease using magnetic resonance imaging. <i>PLoS ONE</i> , 2010 , 5, e12998	3.7	19
193	Low-cost MR-compatible moving heart phantom. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2000 , 2, 181-7	6.9	19
192	Water-fat Dixon cardiac magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 2107-2123	4.4	19
191	Tropoelastin: A novel marker for plaque progression and instability. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11,	3.9	19
190	Coronary MR angiography at 3T: fat suppression versus water-fat separation. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016 , 29, 733-8	2.8	18
189	Whole-heart coronary MR angiography using image-based navigation for the detection of coronary anomalies in adult patients with congenital heart disease. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 947-55	5.6	17
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