

Ren M. Botnar

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324
papers

11,286
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53
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94
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342
ext. papers

12,877
ext. citations

6.7
avg, IF

6.02
L-index

#	Paper	IF	Citations
324	Coronary magnetic resonance angiography for the detection of coronary stenoses. <i>New England Journal of Medicine</i> , 2001 , 345, 1863-9	59.2	1136
323	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
322	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
321	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
320	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
319	"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
318	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
317	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
316	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
315	Coronary magnetic resonance angiography in adolescents and young adults with kawasaki disease. <i>Circulation</i> , 2002 , 105, 908-11	16.7	172
314	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
313	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
312	Magnetic conjugated polymer nanoparticles as bimodal imaging agents. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9833-42	16.4	152
311	Assessment of atherosclerotic plaque burden with an elastin-specific magnetic resonance contrast agent. <i>Nature Medicine</i> , 2011 , 17, 383-8	50.5	147
310	Molecular magnetic resonance imaging of atrial clots in a swine model. <i>Circulation</i> , 2005 , 112, 396-9	16.7	147
309	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
308	Cardiovascular magnetic resonance phase contrast imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 71	6.9	135

307	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
306	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
305	Whole-heart coronary MR angiography with 2D self-navigated image reconstruction. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 437-45	4.4	115
304	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
303	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
302	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
301	Inherently self-calibrating non-Cartesian parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1-8	4.4	110
300	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
299	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
298	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
297	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
296	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
295	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
294	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
293	Role of miR-195 in aortic aneurysmal disease. <i>Circulation Research</i> , 2014 , 115, 857-66	15.7	82
292	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
291	A Digital Preclinical PET/MRI Insert and Initial Results. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 2258-70	11.7	79
290	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

289	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
288	Automatic vessel segmentation using active contours in cine phase contrast flow measurements. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 10, 41-51	5.6	77
287	In vivo magnetic resonance imaging of experimental thrombosis in a rabbit model. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001 , 21, 1556-60	9.4	73
286	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
285	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
284	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
283	Three-dimensional high-resolution fast spin-echo coronary magnetic resonance angiography. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 206-11	4.4	65
282	Free-breathing black-blood coronary MR angiography: initial results. <i>Radiology</i> , 2001 , 219, 278-83	20.5	65
281	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
280	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
279	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
278	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
277	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
276	Coronary magnetic resonance angiography and vessel wall imaging in children with Kawasaki disease. <i>Pediatric Radiology</i> , 2007 , 37, 666-73	2.8	58
275	Molecular imaging of cardiac remodelling after myocardial infarction. <i>Basic Research in Cardiology</i> , 2018 , 113, 10	11.8	55
274	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
273	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
272	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

271	A new 18F-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
270	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
269	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
268	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
267	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
266	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
265	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
264	Magnetic resonance imaging of myocardial injury and ventricular torsion after marathon running. <i>Clinical Science</i> , 2011 , 120, 143-52	6.5	48
263	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
262	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
261	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
260	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
259	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
258	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
257	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
256	A fast 3D approach for coronary MRA. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 10, 821-5	5.6	44
255	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
254	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

253	Automatic CNN-based detection of cardiac MR motion artefacts using k-space data augmentation and curriculum learning. <i>Medical Image Analysis</i> , 2019 , 55, 136-147	15.4	42
252	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
251	Gd-containing conjugated polymer nanoparticles: bimodal nanoparticles for fluorescence and MRI imaging. <i>Nanoscale</i> , 2014 , 6, 8376-86	7.7	40
250	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
249	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
248	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
247	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
246	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
245	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
244	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
243	Congenital heart disease: cardiovascular MR imaging by using an intravascular blood pool contrast agent. <i>Radiology</i> , 2011 , 260, 680-8	20.5	37
242	3D myocardial T mapping using saturation recovery. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 218-227	5.6	36
241	In vivo assessment of intraplaque and endothelial fibrin in ApoE ^{-/-} mice by molecular MRI. <i>Atherosclerosis</i> , 2012 , 222, 43-9	3.1	36
240	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
239	Correction for heart rate variability improves coronary magnetic resonance angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 22, 577-82	5.6	35
238	Elastin imaging enables noninvasive staging and treatment monitoring of kidney fibrosis. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	34
237	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
236	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

235	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
234	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
233	From Compressed-Sensing to Artificial Intelligence-Based Cardiac MRI Reconstruction. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 17	5.4	32
232	MR imaging of the arterial vessel wall: molecular imaging from bench to bedside. <i>Radiology</i> , 2013 , 269, 34-51	20.5	32
231	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
230	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
229	Advanced respiratory motion compensation for coronary MR angiography. <i>Sensors</i> , 2013 , 13, 6882-99	3.8	31
228	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
227	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
226	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
225	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
224	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
223	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
222	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
221	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
220	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
219	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
218	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

217	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
216	Characterizing radial undersampling artifacts for cardiac applications. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 396-403	4.4	26
215	Initial experiences with in vivo intravascular coronary vessel wall imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2003 , 17, 615-9	5.6	26
214	Characterization of coronary atherosclerosis by magnetic resonance imaging. <i>Circulation</i> , 2013 , 128, 1244-55	16.7	25
213	Molecular MRI of atherosclerosis. <i>Molecules</i> , 2013 , 18, 14042-69	4.8	25
212	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}	5.4	25
211	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
210	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
209	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
208	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
207	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
206	Simultaneous Assessment of Cardiac Inflammation and Extracellular Matrix Remodeling after Myocardial Infarction. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11,	3.9	24
205	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
204	Coronary imaging with cardiovascular magnetic resonance: current state of the art. <i>Progress in Cardiovascular Diseases</i> , 2011 , 54, 240-52	8.5	23
203	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
202	Sandwich immunoassay for soluble glycoprotein VI in patients with symptomatic coronary artery disease. <i>Clinical Chemistry</i> , 2011 , 57, 898-904	5.5	23
201	Three-dimensional dual-phase whole-heart MR imaging: clinical implications for congenital heart disease. <i>Radiology</i> , 2012 , 263, 547-54	20.5	23
200	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

199	Assessment of prosthetic aortic valve performance by magnetic resonance velocity imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2000 , 10, 18-26	2.8	23
198	Rigid motion-corrected magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 947-961	4.4	23
197	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
196	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
195	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
194	Coronary MR imaging using free-breathing 3D steady-state free precession with radial k-space sampling. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2003 , 175, 1330-4	2.3	22
193	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
192	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
191	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
190	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
189	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
188	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
187	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
186	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
185	Molecular Imaging of Abdominal Aortic Aneurysms. <i>Trends in Molecular Medicine</i> , 2017 , 23, 150-164	11.5	19
184	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
183	Optimized respiratory-resolved motion-compensated 3D Cartesian coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 2618-2629	4.4	19
182	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

181	Individualized cardiovascular risk assessment by cardiovascular magnetic resonance. <i>Future Cardiology</i> , 2014 , 10, 273-89	1.3	19
180	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
179	Molecular coronary MR imaging of human thrombi using EP-2104R, a fibrin-targeted contrast agent: experimental study in a swine model. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2007 , 179, 1166-73	2.3	19
178	Low-cost MR-compatible moving heart phantom. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2000 , 2, 181-7	6.9	19
177	Water-fat Dixon cardiac magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 2107-2123	4.4	19
176	Tropoelastin: A novel marker for plaque progression and instability. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11,	3.9	19
175	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
174	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
173	Free-running simultaneous myocardial T1/T2 mapping and cine imaging with 3D whole-heart coverage and isotropic spatial resolution. <i>Magnetic Resonance Imaging</i> , 2019 , 63, 159-169	3.3	17
172	PET/CT and MR imaging biomarker of lipid-rich plaques using [64Cu]-labeled scavenger receptor (CD68-Fc). <i>International Journal of Cardiology</i> , 2014 , 177, 287-91	3.2	17
171	Magnetic resonance coronary angiography: where are we today?. <i>Current Cardiology Reports</i> , 2013 , 15, 328	4.2	17
170	MRI of coronary vessel walls using radial k-space sampling and steady-state free precession imaging. <i>American Journal of Roentgenology</i> , 2006 , 186, S401-6	5.4	17
169	Sparsity and locally low rank regularization for MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 3530-3543	4.4	16
168	A multi-scale variational neural network for accelerating motion-compensated whole-heart 3D coronary MR angiography. <i>Magnetic Resonance Imaging</i> , 2020 , 70, 155-167	3.3	16
167	MRI-based prediction of adverse cardiac remodeling after murine myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 303, H309-14	5.2	16
166	Inversion recovery radial MRI with interleaved projection sets. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 1150-6	4.4	16
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