

Ren M Botnar

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.

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	Efficient non-contrast enhanced 3D Cartesian cardiovascular magnetic resonance angiography of the thoracic aorta in 3min.. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022 , 24, 5	6.9	0
347	Whole-heart non-rigid motion corrected coronary MRA with autofocus virtual 3D iNAV.. <i>Magnetic Resonance Imaging</i> , 2022 , 87, 169-169	3.3	2
346	Innovations in Cardiovascular MR and PET-MR Imaging 2022 , 265-309		0
345	Self-supervised learning-based diffeomorphic non-rigid motion estimation for fast motion-compensated coronary MR angiography. <i>Magnetic Resonance Imaging</i> , 2022 , 85, 10-18	3.3	0
344	High-resolution non-contrast free-breathing coronary cardiovascular magnetic resonance angiography for detection of coronary artery disease: validation against invasive coronary angiography.. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022 , 24, 26	6.9	0
343	Artificial Intelligence in Cardiac MRI: Is Clinical Adoption Forthcoming?. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 818765	5.4	1
342	Simultaneous T ₁ , T ₂ , and T ₂ cardiac magnetic resonance fingerprinting for contrast agent-free myocardial tissue characterization. <i>Magnetic Resonance in Medicine</i> , 2021 ,	4.4	2
341	Imaging of Dysfunctional Elastogenesis in Atherosclerosis Using an Improved Gadolinium-Based Tetrameric MRI Probe Targeted to Tropoelastin. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 15250-15261	8.3	0
340	High-Spatial-Resolution 3D Whole-Heart MRI T2 Mapping for Assessment of Myocarditis. <i>Radiology</i> , 2021 , 298, 578-586	20.5	4
339	Effect of Doxycycline on Survival in Abdominal Aortic Aneurysms in a Mouse Model. <i>Contrast Media and Molecular Imaging</i> , 2021 , 2021, 9999847	3.2	
338	MR-guided motion-corrected PET image reconstruction for cardiac PET-MR. <i>Journal of Nuclear Medicine</i> , 2021 ,	8.9	3
337	3D whole-heart grey-blood late gadolinium enhancement cardiovascular magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 62	6.9	2
336	Synergistic multi-contrast cardiac magnetic resonance image reconstruction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200197	3	1
335	Visualization of elastin using cardiac magnetic resonance imaging after myocardial infarction as inflammatory response. <i>Scientific Reports</i> , 2021 , 11, 11004	4.9	2
334	Clinical comparison of sub-mm high-resolution non-contrast coronary CMR angiography against coronary CT angiography in patients with low-intermediate risk of coronary artery disease: a single center trial. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 57	6.9	6
333	Evaluation of accelerated motion-compensated 3d water/fat late gadolinium enhanced MR for atrial wall imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021 , 34, 877-887	2.8	2
332	End-to-end deep learning nonrigid motion-corrected reconstruction for highly accelerated free-breathing coronary MRA. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1983-1996	4.4	6

331	Complementary time-frequency domain networks for dynamic parallel MR image reconstruction. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 3274-3291	4.4	5
330	Deep-learning based super-resolution for 3D isotropic coronary MR angiography in less than a minute. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 2837-2852	4.4	5
329	Dark-blood late gadolinium enhancement cardiovascular magnetic resonance for improved detection of subendocardial scar: a review of current techniques. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 96	6.9	3
328	Molecular MR-Imaging in Thromboembolic Stroke Using a Fibrin-Specific Contrast Agent in Patients at 3 Tesla. <i>Clinical Neuroradiology</i> , 2021 , 31, 925-931	2.7	0
327	In vivo assessment of endothelial permeability of coronary lesions with variable degree of stenosis using an albumin-binding MR probe. <i>International Journal of Cardiovascular Imaging</i> , 2021 , 37, 3049-3055	2.5	1
326	Quantitative magnetization transfer imaging for non-contrast enhanced detection of myocardial fibrosis. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2069-2083	4.4	
325	Fully self-gated free-running 3D Cartesian cardiac CINE with isotropic whole-heart coverage in less than 2 min. <i>NMR in Biomedicine</i> , 2021 , 34, e4409	4.4	8
324	Non-Rigid Respiratory Motion Estimation of Whole-Heart Coronary MR Images Using Unsupervised Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 444-454	11.7	10
323	T1, T2, and Fat Fraction Cardiac MR Fingerprinting: Preliminary Clinical Evaluation. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 1253-1265	5.6	4
322	LAPNet: Non-Rigid Registration Derived in k-Space for Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 3686-3697	11.7	3
321	Thrombosis and Embolism 2021 , 1225-1244		
320	Coronary Magnetic Resonance Angiography in Chronic Coronary Syndromes. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 682924	5.4	1
319	Assessment of hepatic fatty acids during non-alcoholic steatohepatitis progression using magnetic resonance spectroscopy. <i>Annals of Hepatology</i> , 2021 , 25, 100358	3.1	1
318	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
317	3D whole-heart isotropic-resolution motion-compensated joint T ₁ /T ₂ mapping and water/fat imaging. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 3009-3026	4.4	7
316	Coronary Magnetic Resonance Angiography: Technical Innovations Leading Us to the Promised Land?. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 2653-2672	8.4	7
315	Gold nanomaterials functionalised with gadolinium chelates and their application in multimodal imaging and therapy. <i>Chemical Communications</i> , 2020 , 56, 4037-4046	5.8	8
314	From Compressed-Sensing to Artificial Intelligence-Based Cardiac MRI Reconstruction. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 17	5.4	32

313	Imaging the Extracellular Matrix in Prevalent Cardiovascular Diseases. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4001	2.6	1
312	Targeted Molecular Iron Oxide Contrast Agents for Imaging Atherosclerotic Plaque. <i>Nanotheranostics</i> , 2020 , 4, 184-194	5.6	12
311	Noninvasive imaging of vascular permeability to predict the risk of rupture in abdominal aortic aneurysms using an albumin-binding probe. <i>Scientific Reports</i> , 2020 , 10, 3231	4.9	10
310	Contrast-free high-resolution 3D magnetization transfer imaging for simultaneous myocardial scar and cardiac vein visualization. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020 , 33, 627-640	2.8	2
309	Combined Magnetic Resonance Imaging and Photodynamic Therapy Using Polyfunctionalised Nanoparticles Bearing Robust Gadolinium Surface Units. <i>Chemistry - A European Journal</i> , 2020 , 26, 4552-4566	4.8	6
308	Comprehensive multimodality characterization of hemodynamically significant and non-significant coronary lesions using invasive and noninvasive measures. <i>PLoS ONE</i> , 2020 , 15, e0228292	3.7	1
307	Respiratory motion-compensated high-resolution 3D whole-heart T1 mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 12	6.9	11
306	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
305	Faster 3D saturation-recovery based myocardial T1 mapping using a reduced number of saturation points and denoising. <i>PLoS ONE</i> , 2020 , 15, e0221071	3.7	2
304	Tropoelastin: an in vivo imaging marker of dysfunctional matrix turnover during abdominal aortic dilation. <i>Cardiovascular Research</i> , 2020 , 116, 995-1005	9.9	9
303	Specialized Mapping Methods in the Heart. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2020 , 1, 91-121	0.1	
302	Accelerated 4D Respiratory Motion-Resolved Cardiac MRI with a Model-Based Variational Network. <i>Lecture Notes in Computer Science</i> , 2020 , 427-435	0.9	1
301	Accelerated free-breathing whole-heart 3D T mapping with high isotropic resolution. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 988-1002	4.4	8
300	Mass Spectrometry Imaging of atherosclerosis-affine Gadofluorine following Magnetic Resonance Imaging. <i>Scientific Reports</i> , 2020 , 10, 79	4.9	5
299	3D Whole-heart free-breathing qBOOST-T2 mapping. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1673-1684	4.4	6
298	Water-fat Dixon cardiac magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 2107-2123	4.4	19
297	PET/MRI of atherosclerosis. <i>Cardiovascular Diagnosis and Therapy</i> , 2020 , 10, 1120-1139	2.6	5
296	Black-Blood Contrast in Cardiovascular MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , e27399	5.6	9

295	Motion-corrected 3D whole-heart water-fat high-resolution late gadolinium enhancement cardiovascular magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 53	6.9	10
294	Metallostar Assemblies Based on Dithiocarbamates for Use as MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2020 , 59, 10813-10823	5.1	3
293	Sustained Focal Vascular Inflammation Accelerates Atherosclerosis in Remote Arteries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 2159-2170	9.4	7
292	3D free-breathing cardiac magnetic resonance fingerprinting. <i>NMR in Biomedicine</i> , 2020 , 33, e4370	4.4	16
291	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
290	Simultaneous molecular MRI of extracellular matrix collagen and inflammatory activity to predict abdominal aortic aneurysm rupture. <i>Scientific Reports</i> , 2020 , 10, 15206	4.9	7
289	Molecular MR-Imaging for Noninvasive Quantification of the Anti-Inflammatory Effect of Targeting Interleukin-1 β in a Mouse Model of Aortic Aneurysm. <i>Molecular Imaging</i> , 2020 , 19, 1536012120961875	3.7	2
288	Accelerated high-resolution free-breathing 3D whole-heart T-prepared black-blood and bright-blood cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 88	6.9	4
287	Whole-heart T mapping using a 2D fat image navigator for respiratory motion compensation. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 178-187	4.4	5
286	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
285	Isotropic 3D Cartesian single breath-hold CINE MRI with multi-bin patch-based low-rank reconstruction. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2018-2033	4.4	10
284	Comprehensive multimodality characterization of hemodynamically significant and non-significant coronary lesions using invasive and noninvasive measures 2020 , 15, e0228292		
283	Comprehensive multimodality characterization of hemodynamically significant and non-significant coronary lesions using invasive and noninvasive measures 2020 , 15, e0228292		
282	Comprehensive multimodality characterization of hemodynamically significant and non-significant coronary lesions using invasive and noninvasive measures 2020 , 15, e0228292		
281	Comprehensive multimodality characterization of hemodynamically significant and non-significant coronary lesions using invasive and noninvasive measures 2020 , 15, e0228292		
280	Dual-probe molecular MRI for the in vivo characterization of atherosclerosis in a mouse model: Simultaneous assessment of plaque inflammation and extracellular-matrix remodeling. <i>Scientific Reports</i> , 2019 , 9, 13827	4.9	7
279	Atherosclerotic Plaque Imaging. <i>Contemporary Cardiology</i> , 2019 , 229-248	0.1	
278	Molecular Imaging in Ischemic Heart Disease. <i>Current Cardiovascular Imaging Reports</i> , 2019 , 12, 31	0.7	2

277	3D Cartesian fast interrupted steady-state (FISS) imaging. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1617-1630	4.4	5
276	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
275	Accelerated 3D T w-imaging of the prostate with 1-millimeter isotropic resolution in less than 3 minutes. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 721-731	4.4	4
274	Simultaneous 3D whole-heart bright-blood and black blood imaging for cardiovascular anatomy and wall assessment with interleaved T prep-IR. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 312-325	4.4	2
273	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
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	Motion corrected water/fat whole-heart coronary MR angiography with 100% respiratory efficiency. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 732-742	4.4	13
270	Elastin imaging enables noninvasive staging and treatment monitoring of kidney fibrosis. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	34
269	Molecular and Nonmolecular Magnetic Resonance Coronary and Carotid Imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019 , 39, 569-582	9.4	6
268	Sparsity and locally low rank regularization for MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 3530-3543	4.4	16
267	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
266	Imaging sequence for joint myocardial T mapping and fat/water separation. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 486-494	4.4	11
265	Magnetic Resonance Fingerprinting Using Recurrent Neural Networks 2019 ,		10
264	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
263	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
262	Atherosclerotic Plaque Imaging 2019 , 343-351.e3		
261	Magnetic Resonance Imaging of Coronary Arteries 2019 , 291-299.e5		
260	Non-contrast enhanced simultaneous 3D whole-heart bright-blood pulmonary veins visualization and black-blood quantification of atrial wall thickness. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1066-1079	4.4	10

259	Rigid motion-corrected magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 947-961	4.4	23
258	Respiratory- and cardiac motion-corrected simultaneous whole-heart PET and dual phase coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1671-1684	4.4	8
257	Accelerated 3D T mapping with dictionary-based matching for prostate imaging. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1795-1805	4.4	8
256	Noninvasive Imaging of Endothelial Damage in Patients With Different HbA Levels: A Proof-of-Concept Study. <i>Diabetes</i> , 2019 , 68, 387-394	0.9	3
255	Novel Approach for In Vivo Detection of Vulnerable Coronary Plaques Using Molecular 3-T CMR Imaging With an Albumin-Binding Probe. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 297-306	8.4	13
254	Optimized respiratory-resolved motion-compensated 3D Cartesian coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 2618-2629	4.4	19
253	Molecular imaging of cardiac remodelling after myocardial infarction. <i>Basic Research in Cardiology</i> , 2018 , 113, 10	11.8	55
252	Improved coronary magnetic resonance angiography using gadobenate dimeglumine in pediatric congenital heart disease. <i>Magnetic Resonance Imaging</i> , 2018 , 49, 47-54	3.3	1
251	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
250	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
249	The importance of qualitative and quantitative regional wall motion abnormality assessment at rest in pediatric coronary allograft vasculopathy. <i>Pediatric Transplantation</i> , 2018 , 22, e13208	1.8	3
248	MRI with gadofosveset: A potential marker for permeability in myocardial infarction. <i>Atherosclerosis</i> , 2018 , 275, 400-408	3.1	11
247	Accelerated magnetic resonance fingerprinting using soft-weighted key-hole (MRF-SOHO). <i>PLoS ONE</i> , 2018 , 13, e0201808	3.7	11
246	Molecular imaging of myocardial infarction with Gadofluorine P - A combined magnetic resonance and mass spectrometry imaging approach. <i>Heliyon</i> , 2018 , 4, e00606	3.6	9
245	Technical note: Accelerated nonrigid motion-compensated isotropic 3D coronary MR angiography. <i>Medical Physics</i> , 2018 , 45, 214-222	4.4	16
244	Cardiac MR Angiography 2018 , 399-432		
243	Atherosclerotic Plaque Imaging 2018 , 261-300		
242	Coronary MR angiography using image-based respiratory motion compensation with inline correction and fixed gating efficiency. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 416-422	4.4	10

241	P18 PRAVASTATIN AND MINOCYCLINE TREATMENT AFFECTS VESSEL WALL REMODELING IN A MURINE MODEL OF VASCULAR INJURY. <i>Cardiovascular Research</i> , 2018 , 114, S6-S7	9.9	
240	Contrast-Enhanced Magnetic Resonance Angiography Using a Novel Elastin-Specific Molecular Probe in an Experimental Animal Model. <i>Contrast Media and Molecular Imaging</i> , 2018 , 2018, 9217456	3.2	1
239	Simultaneous Assessment of Cardiac Inflammation and Extracellular Matrix Remodeling after Myocardial Infarction. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11,	3.9	24
238	Dual-phase whole-heart imaging using image navigation in congenital heart disease. <i>BMC Medical Imaging</i> , 2018 , 18, 36	2.9	2
237	Current and Emerging Preclinical Approaches for Imaging-Based Characterization of Atherosclerosis. <i>Molecular Imaging and Biology</i> , 2018 , 20, 869-887	3.8	14
236	Tropoelastin: A novel marker for plaque progression and instability. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11,	3.9	19
235	In Vivo Molecular Characterization of Abdominal Aortic Aneurysms Using Fibrin-Specific Magnetic Resonance Imaging. <i>Journal of the American Heart Association</i> , 2018 , 7,	6	9
234	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
233	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
232	Molecular Imaging of Abdominal Aortic Aneurysms. <i>Trends in Molecular Medicine</i> , 2017 , 23, 150-164	11.5	19
231	3D myocardial T mapping using saturation recovery. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 218-227	5.6	36
230	Aortic length measurements for pulse wave velocity calculation: manual 2D vs automated 3D centreline extraction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 32	6.9	12
229	In vivo MR-angiography for the assessment of aortic aneurysms in an experimental mouse model on a clinical MRI scanner: Comparison with high-frequency ultrasound and histology. <i>PLoS ONE</i> , 2017 , 12, e0178682	3.7	1
228	Contrast-enhanced magnetic resonance imaging for the detection of ruptured coronary plaques in patients with acute myocardial infarction. <i>PLoS ONE</i> , 2017 , 12, e0188292	3.7	9
227	Dark-blood late gadolinium enhancement without additional magnetization preparation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 64	6.9	30
226	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
225	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
224	Gadolinium and Platinum in Tandem: Real-time Multi-Modal Monitoring of Drug Delivery by MRI and Fluorescence Imaging. <i>Nanotheranostics</i> , 2017 , 1, 186-195	5.6	9

223	In Vivo High-Frequency Ultrasound for the Characterization of Thrombi Associated with Aortic Aneurysms in an Experimental Mouse Model. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2882-2890	3.5	3
222	Clinical evaluation of three-dimensional late enhancement MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 45, 1675-1683	5.6	8
221	Influence of acquired obesity on coronary vessel wall late gadolinium enhancement in discordant monozygote twins. <i>European Radiology</i> , 2017 , 27, 4612-4618	8	2
220	Molecular imaging of the extracellular matrix in the context of atherosclerosis. <i>Advanced Drug Delivery Reviews</i> , 2017 , 113, 49-60	18.5	15
219	Diagnostic performance of image navigated coronary CMR angiography in patients with coronary artery disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 68	6.9	14
218	Improved segmented modified Look-Locker inversion recovery T1 mapping sequence in mice. <i>PLoS ONE</i> , 2017 , 12, e0187621	3.7	6
217	Cardiac magnetic resonance feature tracking in Kawasaki disease convalescence. <i>Annals of Pediatric Cardiology</i> , 2017 , 10, 18-25	0.8	13
216	Evaluating Classifiers for Atherosclerotic Plaque Component Segmentation in MRI. <i>Communications in Computer and Information Science</i> , 2017 , 156-168	0.3	
215	Molecular magnetic resonance imaging of atherosclerotic vessel wall disease. <i>European Radiology</i> , 2016 , 26, 910-20	8	13
214	Coronary and Perfusion Imaging with Cardiovascular Magnetic Resonance: Current State of the Art 2016 , 1-17		
213	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
212	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
211	A bisphosphonate for F-magnetic resonance imaging. <i>Journal of Fluorine Chemistry</i> , 2016 , 184, 58-64	2.1	7
210	Bone marrow transplantation modulates tissue macrophage phenotype and enhances cardiac recovery after subsequent acute myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 90, 120-8	5.8	12
209	Increased Vascular Permeability Measured With an Albumin-Binding Magnetic Resonance Contrast Agent Is a Surrogate Marker of Rupture-Prone Atherosclerotic Plaque. <i>Circulation: Cardiovascular Imaging</i> , 2016 , 9,	3.9	16
208	Molecular Cardiovascular Magnetic Resonance: Current Status and Future Prospects. <i>Current Cardiology Reports</i> , 2016 , 18, 47	4.2	3
207	An Integrated Software Application for Non-invasive Assessment of Local Aortic Haemodynamic Parameters. <i>Procedia Computer Science</i> , 2016 , 90, 2-8	1.6	2
206	A clinical combined gadobutrol bolus and slow infusion protocol enabling angiography, inversion recovery whole heart, and late gadolinium enhancement imaging in a single study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 66	6.9	10

205	2D phase contrast blood flow velocity measurements of the thoracic vasculature: comparison of the effect of gadofosveset trisodium and gadopentetate dimeglumine. <i>International Journal of Cardiovascular Imaging</i> , 2015 , 31, 409-16	2.5	2
204	A Digital Preclinical PET/MRI Insert and Initial Results. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 2258-70	11.7	79
203	Combined coronary lumen and vessel wall magnetic resonance imaging with i-T2prep: influence of nitroglycerin. <i>International Journal of Cardiovascular Imaging</i> , 2015 , 31, 77-82	2.5	2
202	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
201	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
200	Multi-sequence non-contrast MRI characterization of deep vein thrombosis in man. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
199	A segmented modified look-locker inversion recovery (MOLLI) sequence for high heart rate T1 mapping of mice. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	1
198	Volumetric black-blood imaging of aortic dissection using T2 prepared inversion recovery. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	2
197	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
196	Increased vascular permeability is a surrogate marker of atherosclerotic plaque instability. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	3
195	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
194	Monitoring vascular permeability and remodeling after endothelial injury in a murine model using a magnetic resonance albumin-binding contrast agent. <i>Circulation: Cardiovascular Imaging</i> , 2015 , 8,	3.9	8
193	Cardiovascular magnetic resonance phase contrast imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 71	6.9	135
192	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
191	Coronary artery size and origin imaging in children: a comparative study of MRI and trans-thoracic echocardiography. <i>BMC Medical Imaging</i> , 2015 , 15, 48	2.9	11
190	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
189	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
188	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

187	Abnormal myocardial perfusion in Kawasaki disease convalescence. <i>JACC: Cardiovascular Imaging</i> , 2015 , 8, 106-108	8.4	13
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