

# 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.

324  
papers

11,286  
citations

53  
h-index

94  
g-index

342  
ext. papers

12,877  
ext. citations

6.7  
avg, IF

6.02  
L-index

#	Paper	IF	Citations
324	Efficient non-contrast enhanced 3D Cartesian cardiovascular magnetic resonance angiography of the thoracic aorta in 3min.. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2022</b> , 24, 5	6.9	0
323	Whole-heart non-rigid motion corrected coronary MRA with autofocus virtual 3D iNAV.. <i>Magnetic Resonance Imaging</i> , <b>2022</b> , 87, 169-169	3.3	2
322	Generalized low-rank nonrigid motion-corrected reconstruction for MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> , 87, 746-763	4.4	1
321	Innovations in Cardiovascular MR and PET-MR Imaging <b>2022</b> , 265-309		0
320	Self-supervised learning-based diffeomorphic non-rigid motion estimation for fast motion-compensated coronary MR angiography. <i>Magnetic Resonance Imaging</i> , <b>2022</b> , 85, 10-18	3.3	0
319	Non-rigid motion-corrected free-breathing 3D myocardial Dixon LGE imaging in a clinical setting.. <i>European Radiology</i> , <b>2022</b> , 1	8	0
318	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> , <b>2022</b> , 24, 26	6.9	0
317	Simultaneous T <sub>1</sub> , T <sub>2</sub> , and T <sub>2</sub> cardiac magnetic resonance fingerprinting for contrast agent-free myocardial tissue characterization. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> ,	4.4	2
316	Imaging of Dysfunctional Elastogenesis in Atherosclerosis Using an Improved Gadolinium-Based Tetrameric MRI Probe Targeted to Tropoelastin. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 15250-15261	8.3	0
315	High-Spatial-Resolution 3D Whole-Heart MRI T2 Mapping for Assessment of Myocarditis. <i>Radiology</i> , <b>2021</b> , 298, 578-586	20.5	4
314	Effect of Doxycycline on Survival in Abdominal Aortic Aneurysms in a Mouse Model. <i>Contrast Media and Molecular Imaging</i> , <b>2021</b> , 2021, 9999847	3.2	
313	MR-guided motion-corrected PET image reconstruction for cardiac PET-MR. <i>Journal of Nuclear Medicine</i> , <b>2021</b> ,	8.9	3
312	3D whole-heart grey-blood late gadolinium enhancement cardiovascular magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 62	6.9	2
311	Synergistic multi-contrast cardiac magnetic resonance image reconstruction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2021</b> , 379, 20200197	3	1
310	Visualization of elastin using cardiac magnetic resonance imaging after myocardial infarction as inflammatory response. <i>Scientific Reports</i> , <b>2021</b> , 11, 11004	4.9	2
309	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> , <b>2021</b> , 23, 57	6.9	6
308	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> , <b>2021</b> , 34, 877-887	2.8	2

307	End-to-end deep learning nonrigid motion-corrected reconstruction for highly accelerated free-breathing coronary MRA. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 1983-1996	4.4	6
306	Deep-learning based super-resolution for 3D isotropic coronary MR angiography in less than a minute. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 2837-2852	4.4	5
305	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> , <b>2021</b> , 23, 96	6.9	3
304	3D Dixon water-fat LGE imaging with image navigator and compressed sensing in cardiac MRI. <i>European Radiology</i> , <b>2021</b> , 31, 3951-3961	8	6
303	Quantitative magnetization transfer imaging for non-contrast enhanced detection of myocardial fibrosis. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 2069-2083	4.4	
302	Fully self-gated free-running 3D Cartesian cardiac CINE with isotropic whole-heart coverage in less than 2 min. <i>NMR in Biomedicine</i> , <b>2021</b> , 34, e4409	4.4	8
301	Non-Rigid Respiratory Motion Estimation of Whole-Heart Coronary MR Images Using Unsupervised Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 444-454	11.7	10
300	T1, T2, and Fat Fraction Cardiac MR Fingerprinting: Preliminary Clinical Evaluation. <i>Journal of Magnetic Resonance Imaging</i> , <b>2021</b> , 53, 1253-1265	5.6	4
299	LAPNet: Non-Rigid Registration Derived in k-Space for Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 3686-3697	11.7	3
298	Coronary Magnetic Resonance Angiography in Chronic Coronary Syndromes. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 682924	5.4	1
297	Multi-parametric liver tissue characterization using MR fingerprinting: Simultaneous T <sub>1</sub> , T <sub>2</sub> , T <sub>2</sub> <sup>*</sup> , and fat fraction mapping. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2625-2635	4.4	20
296	3D whole-heart isotropic-resolution motion-compensated joint T <sub>1</sub> /T <sub>2</sub> mapping and water/fat imaging. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 3009-3026	4.4	7
295	Coronary Magnetic Resonance Angiography: Technical Innovations Leading Us to the Promised Land?. <i>JACC: Cardiovascular Imaging</i> , <b>2020</b> , 13, 2653-2672	8.4	7
294	Gold nanomaterials functionalised with gadolinium chelates and their application in multimodal imaging and therapy. <i>Chemical Communications</i> , <b>2020</b> , 56, 4037-4046	5.8	8
293	From Compressed-Sensing to Artificial Intelligence-Based Cardiac MRI Reconstruction. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 17	5.4	32
292	Imaging the Extracellular Matrix in Prevalent Cardiovascular Diseases. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4001	2.6	1
291	Targeted Molecular Iron Oxide Contrast Agents for Imaging Atherosclerotic Plaque. <i>Nanotheranostics</i> , <b>2020</b> , 4, 184-194	5.6	12
290	Noninvasive imaging of vascular permeability to predict the risk of rupture in abdominal aortic aneurysms using an albumin-binding probe. <i>Scientific Reports</i> , <b>2020</b> , 10, 3231	4.9	10

289	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> , <b>2020</b> , 33, 627-640	2.8	2
288	Combined Magnetic Resonance Imaging and Photodynamic Therapy Using Polyfunctionalised Nanoparticles Bearing Robust Gadolinium Surface Units. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 4552-4566	4.8	6
287	Comprehensive multimodality characterization of hemodynamically significant and non-significant coronary lesions using invasive and noninvasive measures. <i>PLoS ONE</i> , <b>2020</b> , 15, e0228292	3.7	1
286	Respiratory motion-compensated high-resolution 3D whole-heart T1 mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2020</b> , 22, 12	6.9	11
285	A multi-scale variational neural network for accelerating motion-compensated whole-heart 3D coronary MR angiography. <i>Magnetic Resonance Imaging</i> , <b>2020</b> , 70, 155-167	3.3	16
284	Faster 3D saturation-recovery based myocardial T1 mapping using a reduced number of saturation points and denoising. <i>PLoS ONE</i> , <b>2020</b> , 15, e0221071	3.7	2
283	Tropoelastin: an in vivo imaging marker of dysfunctional matrix turnover during abdominal aortic dilation. <i>Cardiovascular Research</i> , <b>2020</b> , 116, 995-1005	9.9	9
282	Specialized Mapping Methods in the Heart. <i>Advances in Magnetic Resonance Technology and Applications</i> , <b>2020</b> , 1, 91-121	0.1	
281	Accelerated 4D Respiratory Motion-Resolved Cardiac MRI with a Model-Based Variational Network. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 427-435	0.9	1
280	Accelerated free-breathing whole-heart 3D T mapping with high isotropic resolution. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 988-1002	4.4	8
279	Mass Spectrometry Imaging of atherosclerosis-affine Gadofluorine following Magnetic Resonance Imaging. <i>Scientific Reports</i> , <b>2020</b> , 10, 79	4.9	5
278	3D Whole-heart free-breathing qBOOST-T2 mapping. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1673-1687	4.7	6
277	Water-fat Dixon cardiac magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 2107-2123	4.4	19
276	PET/MRI of atherosclerosis. <i>Cardiovascular Diagnosis and Therapy</i> , <b>2020</b> , 10, 1120-1139	2.6	5
275	Black-Blood Contrast in Cardiovascular MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2020</b> , e27399	5.6	9
274	Motion-corrected 3D whole-heart water-fat high-resolution late gadolinium enhancement cardiovascular magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2020</b> , 22, 53	6.9	10
273	Metallostar Assemblies Based on Dithiocarbamates for Use as MRI Contrast Agents. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 10813-10823	5.1	3
272	Sustained Focal Vascular Inflammation Accelerates Atherosclerosis in Remote Arteries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2020</b> , 40, 2159-2170	9.4	7

271	3D free-breathing cardiac magnetic resonance fingerprinting. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4370	4.4	16
270	CINENet: deep learning-based 3D cardiac CINE MRI reconstruction with multi-coil complex-valued 4D spatio-temporal convolutions. <i>Scientific Reports</i> , <b>2020</b> , 10, 13710	4.9	48
269	Simultaneous molecular MRI of extracellular matrix collagen and inflammatory activity to predict abdominal aortic aneurysm rupture. <i>Scientific Reports</i> , <b>2020</b> , 10, 15206	4.9	7
268	Molecular MR-Imaging for Noninvasive Quantification of the Anti-Inflammatory Effect of Targeting Interleukin-1 $\beta$ in a Mouse Model of Aortic Aneurysm. <i>Molecular Imaging</i> , <b>2020</b> , 19, 1536012120961875	3.7	2
267	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> , <b>2020</b> , 22, 88	6.9	4
266	Whole-heart T mapping using a 2D fat image navigator for respiratory motion compensation. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 178-187	4.4	5
265	3D whole-heart isotropic sub-millimeter resolution coronary magnetic resonance angiography with non-rigid motion-compensated PROST. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2020</b> , 22, 24	6.9	20
264	Isotropic 3D Cartesian single breath-hold CINE MRI with multi-bin patch-based low-rank reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2018-2033	4.4	10
263	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> , <b>2019</b> , 9, 13827	4.9	7
262	Atherosclerotic Plaque Imaging. <i>Contemporary Cardiology</i> , <b>2019</b> , 229-248	0.1	
261	Molecular Imaging in Ischemic Heart Disease. <i>Current Cardiovascular Imaging Reports</i> , <b>2019</b> , 12, 31	0.7	2
260	3D Cartesian fast interrupted steady-state (FISS) imaging. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 1617-1630	4.4	5
259	Free-running 3D whole heart myocardial T mapping with isotropic spatial resolution. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 1331-1342	4.4	22
258	Automatic CNN-based detection of cardiac MR motion artefacts using k-space data augmentation and curriculum learning. <i>Medical Image Analysis</i> , <b>2019</b> , 55, 136-147	15.4	42
257	Accelerated 3D T w-imaging of the prostate with 1-millimeter isotropic resolution in less than 3 minutes. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 721-731	4.4	4
256	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> , <b>2019</b> , 82, 312-325	4.4	2
255	Concurrent Molecular Magnetic Resonance Imaging of Inflammatory Activity and Extracellular Matrix Degradation for the Prediction of Aneurysm Rupture. <i>Circulation: Cardiovascular Imaging</i> , <b>2019</b> , 12, e008707	3.9	22
254	High-dimensionality undersampled patch-based reconstruction (HD-PROST) for accelerated multi-contrast MRI. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3705-3719	4.4	43

253	Motion corrected water/fat whole-heart coronary MR angiography with 100% respiratory efficiency. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 732-742	4.4	13
252	Elastin imaging enables noninvasive staging and treatment monitoring of kidney fibrosis. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	34
251	Molecular and Nonmolecular Magnetic Resonance Coronary and Carotid Imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2019</b> , 39, 569-582	9.4	6
250	Sparsity and locally low rank regularization for MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3530-3543	4.4	16
249	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> , <b>2019</b> , 81, 102-115	4.4	48
248	Imaging sequence for joint myocardial T mapping and fat/water separation. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 486-494	4.4	11
247	Magnetic Resonance Fingerprinting Using Recurrent Neural Networks <b>2019</b> ,		10
246	Free-running simultaneous myocardial T1/T2 mapping and cine imaging with 3D whole-heart coverage and isotropic spatial resolution. <i>Magnetic Resonance Imaging</i> , <b>2019</b> , 63, 159-169	3.3	17
245	Clinical value of dark-blood late gadolinium enhancement cardiovascular magnetic resonance without additional magnetization preparation. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2019</b> , 21, 44	6.9	29
244	Atherosclerotic Plaque Imaging <b>2019</b> , 343-351.e3		
243	Magnetic Resonance Imaging of Coronary Arteries <b>2019</b> , 291-299.e5		
242	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> , <b>2019</b> , 81, 1066-1079	4.4	10
241	Rigid motion-corrected magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 947-961	4.4	23
240	Respiratory- and cardiac motion-corrected simultaneous whole-heart PET and dual phase coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1671-1684	4.4	8
239	Accelerated 3D T mapping with dictionary-based matching for prostate imaging. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1795-1805	4.4	8
238	Noninvasive Imaging of Endothelial Damage in Patients With Different HbA Levels: A Proof-of-Concept Study. <i>Diabetes</i> , <b>2019</b> , 68, 387-394	0.9	3
237	3D SASHA myocardial T1 mapping with high accuracy and improved precision. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2019</b> , 32, 281-289	2.8	8
236	Novel Approach for InVivo Detection of Vulnerable Coronary Plaques Using Molecular 3-T CMR Imaging With an Albumin-Binding Probe. <i>JACC: Cardiovascular Imaging</i> , <b>2019</b> , 12, 297-306	8.4	13

235	Optimized respiratory-resolved motion-compensated 3D Cartesian coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 2618-2629	4.4	19
234	Molecular imaging of cardiac remodelling after myocardial infarction. <i>Basic Research in Cardiology</i> , <b>2018</b> , 113, 10	11.8	55
233	Improved coronary magnetic resonance angiography using gadobenate dimeglumine in pediatric congenital heart disease. <i>Magnetic Resonance Imaging</i> , <b>2018</b> , 49, 47-54	3.3	1
232	Motion-corrected simultaneous cardiac positron emission tomography and coronary MR angiography with high acquisition efficiency. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 339-350	4.4	34
231	Simultaneous bright- and black-blood whole-heart MRI for noncontrast enhanced coronary lumen and thrombus visualization. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 1460-1472	4.4	20
230	The importance of qualitative and quantitative regional wall motion abnormality assessment at rest in pediatric coronary allograft vasculopathy. <i>Pediatric Transplantation</i> , <b>2018</b> , 22, e13208	1.8	3
229	MRI with gadofosveset: A potential marker for permeability in myocardial infarction. <i>Atherosclerosis</i> , <b>2018</b> , 275, 400-408	3.1	11
228	Accelerated magnetic resonance fingerprinting using soft-weighted key-hole (MRF-SOHO). <i>PLoS ONE</i> , <b>2018</b> , 13, e0201808	3.7	11
227	Molecular imaging of myocardial infarction with Gadofluorine P - A combined magnetic resonance and mass spectrometry imaging approach. <i>Heliyon</i> , <b>2018</b> , 4, e00606	3.6	9
226	Technical Advances and Clinical Perspectives in Coronary MR Imaging <b>2018</b> , 321-344		
225	Technical note: Accelerated nonrigid motion-compensated isotropic 3D coronary MR angiography. <i>Medical Physics</i> , <b>2018</b> , 45, 214-222	4.4	16
224	Cardiac MR Angiography <b>2018</b> , 399-432		
223	Atherosclerotic Plaque Imaging <b>2018</b> , 261-300		
222	Coronary MR angiography using image-based respiratory motion compensation with inline correction and fixed gating efficiency. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 416-422	4.4	10
221	P18 PRAVASTATIN AND MINOCYCLINE TREATMENT AFFECTS VESSEL WALL REMODELING IN A MURINE MODEL OF VASCULAR INJURY. <i>Cardiovascular Research</i> , <b>2018</b> , 114, S6-S7	9.9	
220	P52 ESTIMATING CENTRAL BLOOD PRESSURE FROM MRI DATA USING REDUCED-ORDER COMPUTATIONAL MODELS. <i>Artery Research</i> , <b>2018</b> , 24, 93	2.2	
219	Contrast-Enhanced Magnetic Resonance Angiography Using a Novel Elastin-Specific Molecular Probe in an Experimental Animal Model. <i>Contrast Media and Molecular Imaging</i> , <b>2018</b> , 2018, 9217456	3.2	1
218	Simultaneous Assessment of Cardiac Inflammation and Extracellular Matrix Remodeling after Myocardial Infarction. <i>Circulation: Cardiovascular Imaging</i> , <b>2018</b> , 11,	3.9	24



217	Dual-phase whole-heart imaging using image navigation in congenital heart disease. <i>BMC Medical Imaging</i> , <b>2018</b> , 18, 36	2.9	2
216	Current and Emerging Preclinical Approaches for Imaging-Based Characterization of Atherosclerosis. <i>Molecular Imaging and Biology</i> , <b>2018</b> , 20, 869-887	3.8	14
215	Tropoelastin: A novel marker for plaque progression and instability. <i>Circulation: Cardiovascular Imaging</i> , <b>2018</b> , 11,	3.9	19
214	Cardiac MR Motion Artefact Correction from K-space Using Deep Learning-Based Reconstruction. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 21-29	0.9	11
213	In Vivo Molecular Characterization of Abdominal Aortic Aneurysms Using Fibrin-Specific Magnetic Resonance Imaging. <i>Journal of the American Heart Association</i> , <b>2018</b> , 7,	6	9
212	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> , <b>2018</b> , 45, 1975-1986	8.8	20
211	Highly efficient nonrigid motion-corrected 3D whole-heart coronary vessel wall imaging. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 1894-1908	4.4	66
210	Molecular Imaging of Abdominal Aortic Aneurysms. <i>Trends in Molecular Medicine</i> , <b>2017</b> , 23, 150-164	11.5	19
209	3D myocardial T mapping using saturation recovery. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 46, 218-227	5.6	36
208	Contrast-enhanced magnetic resonance imaging for the detection of ruptured coronary plaques in patients with acute myocardial infarction. <i>PLoS ONE</i> , <b>2017</b> , 12, e0188292	3.7	9
207	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> , <b>2017</b> , 19, 94	6.9	24
206	Image-navigated 3-dimensional late gadolinium enhancement cardiovascular magnetic resonance imaging: feasibility and initial clinical results. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2017</b> , 19, 97	6.9	19
205	Influence of acquired obesity on coronary vessel wall late gadolinium enhancement in discordant monozygote twins. <i>European Radiology</i> , <b>2017</b> , 27, 4612-4618	8	2
204	Molecular imaging of the extracellular matrix in the context of atherosclerosis. <i>Advanced Drug Delivery Reviews</i> , <b>2017</b> , 113, 49-60	18.5	15
203	Diagnostic performance of image navigated coronary CMR angiography in patients with coronary artery disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2017</b> , 19, 68	6.9	14
202	Improved segmented modified Look-Locker inversion recovery T1 mapping sequence in mice. <i>PLoS ONE</i> , <b>2017</b> , 12, e0187621	3.7	6
201	Molecular magnetic resonance imaging of atherosclerotic vessel wall disease. <i>European Radiology</i> , <b>2016</b> , 26, 910-20	8	13
200	Coronary and Perfusion Imaging with Cardiovascular Magnetic Resonance: Current State of the Art <b>2016</b> , 1-17		



199	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> , <b>2016</b> , 43, 947-55	5.6	17
198	Coronary MR angiography at 3T: fat suppression versus water-fat separation. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2016</b> , 29, 733-8	2.8	18
197	Bone marrow transplantation modulates tissue macrophage phenotype and enhances cardiac recovery after subsequent acute myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2016</b> , 90, 120-8	5.8	12
196	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> , <b>2016</b> , 9,	3.9	16
195	Molecular Cardiovascular Magnetic Resonance: Current Status and Future Prospects. <i>Current Cardiology Reports</i> , <b>2016</b> , 18, 47	4.2	3
194	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> , <b>2016</b> , 18, 66	6.9	10
193	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> , <b>2015</b> , 31, 409-16	2.5	2
192	A Digital Preclinical PET/MRI Insert and Initial Results. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 2258-70	11.7	79
191	Combined coronary lumen and vessel wall magnetic resonance imaging with i-T2prep: influence of nitroglycerin. <i>International Journal of Cardiovascular Imaging</i> , <b>2015</b> , 31, 77-82	2.5	2
190	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> , <b>2015</b> , 4, e001851	6	28
189	Cardiovascular magnetic resonance phase contrast imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17, 71	6.9	135
188	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> , <b>2015</b> , 74, 756-64	4.4	35
187	Coronary artery size and origin imaging in children: a comparative study of MRI and trans-thoracic echocardiography. <i>BMC Medical Imaging</i> , <b>2015</b> , 15, 48	2.9	11
186	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> , <b>2015</b> , 73, 692-6	4.4	24
185	Highly efficient respiratory motion compensated free-breathing coronary MRA using golden-step Cartesian acquisition. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 41, 738-46	5.6	99
184	CMRA with 100% navigator efficiency with 3D self navigation and interleaved scanning. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2014</b> , 16,	6.9	11
183	Current Development of Molecular Coronary Plaque Imaging using Magnetic Resonance Imaging towards Clinical Application. <i>Current Cardiovascular Imaging Reports</i> , <b>2014</b> , 7, 1	0.7	1
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