

Matthias G Friedrich

List of Publications by Citations

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170
papers

14,998
citations

53
h-index

121
g-index

217
ext. papers

18,276
ext. citations

6
avg, IF

6.32
L-index

#	Paper	IF	Citations
170	Cardiovascular magnetic resonance in myocarditis: A JACC White Paper. <i>Journal of the American College of Cardiology</i> , 2009 , 53, 1475-87	15.1	1541
169	Standardized image interpretation and post processing in cardiovascular magnetic resonance: Society for Cardiovascular Magnetic Resonance (SCMR) board of trustees task force on standardized post processing. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 35	6.9	749
168	The salvaged area at risk in reperfused acute myocardial infarction as visualized by cardiovascular magnetic resonance. <i>Journal of the American College of Cardiology</i> , 2008 , 51, 1581-7	15.1	737
167	Myocardial T1 mapping and extracellular volume quantification: a Society for Cardiovascular Magnetic Resonance (SCMR) and CMR Working Group of the European Society of Cardiology consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 92	6.9	684
166	Clinical recommendations for cardiovascular magnetic resonance mapping of T1, T2, T2* and extracellular volume: A consensus statement by the Society for Cardiovascular Magnetic Resonance (SCMR) endorsed by the European Association for Cardiovascular Imaging (EACVI). <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 77	6.9	588
165	Diagnostic performance of cardiovascular magnetic resonance in patients with suspected acute myocarditis: comparison of different approaches. <i>Journal of the American College of Cardiology</i> , 2005 , 45, 1815-22	15.1	581
164	Cardiovascular Magnetic Resonance in Nonischemic Myocardial Inflammation: Expert Recommendations. <i>Journal of the American College of Cardiology</i> , 2018 , 72, 3158-3176	15.1	555
163	Clinical characteristics and cardiovascular magnetic resonance findings in stress (takotsubo) cardiomyopathy. <i>JAMA - Journal of the American Medical Association</i> , 2011 , 306, 277-86	27.4	516
162	Effect of frequent nocturnal hemodialysis vs conventional hemodialysis on left ventricular mass and quality of life: a randomized controlled trial. <i>JAMA - Journal of the American Medical Association</i> , 2007 , 298, 1291-9	27.4	497
161	Blood oxygen level-dependent magnetic resonance imaging in patients with stress-induced angina. <i>Circulation</i> , 2003 , 108, 2219-23	16.7	466
160	ACCF/ACR/AHA/NASCI/SCMR 2010 expert consensus document on cardiovascular magnetic resonance: a report of the American College of Cardiology Foundation Task Force on Expert Consensus Documents. <i>Journal of the American College of Cardiology</i> , 2010 , 55, 2614-62	15.1	461
159	Contrast media-enhanced magnetic resonance imaging visualizes myocardial changes in the course of viral myocarditis. <i>Circulation</i> , 1998 , 97, 1802-9	16.7	421
158	Delayed enhancement and T2-weighted cardiovascular magnetic resonance imaging differentiate acute from chronic myocardial infarction. <i>Circulation</i> , 2004 , 109, 2411-6	16.7	420
157	Randomised, double-blind, placebo-controlled trial of human recombinant growth hormone in patients with chronic heart failure due to dilated cardiomyopathy. <i>Lancet, The</i> , 1998 , 351, 1233-7	4.0	319
156	Non-contrast T1-mapping detects acute myocardial edema with high diagnostic accuracy: a comparison to T2-weighted cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 42	6.9	296
155	T(1) mapping for the diagnosis of acute myocarditis using CMR: comparison to T2-weighted and late gadolinium enhanced imaging. <i>JACC: Cardiovascular Imaging</i> , 2013 , 6, 1048-1058	8.4	260
154	Myocardial T1 mapping: application to patients with acute and chronic myocardial infarction. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 34-40	4.4	259

153	Saturation recovery single-shot acquisition (SASHA) for myocardial T(1) mapping. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 2082-95	4.4	251
152	ACCF/ACR/AHA/NASCI/SCMR 2010 expert consensus document on cardiovascular magnetic resonance: a report of the American College of Cardiology Foundation Task Force on Expert Consensus Documents. <i>Circulation</i> , 2010 , 121, 2462-508	16.7	248
151	Edema as a very early marker for acute myocardial ischemia: a cardiovascular magnetic resonance study. <i>Journal of the American College of Cardiology</i> , 2009 , 53, 1194-201	15.1	175
150	Standardized image interpretation and post-processing in cardiovascular magnetic resonance - 2020 update : Society for Cardiovascular Magnetic Resonance (SCMR): Board of Trustees Task Force on Standardized Post-Processing. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 19	6.9	173
149	T2-weighted cardiovascular magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 452-9	5.6	163
148	Noninvasive imaging in myocarditis. <i>Journal of the American College of Cardiology</i> , 2006 , 48, 2085-93	15.1	149
147	T2-weighted cardiovascular magnetic resonance in acute cardiac disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13, 13	6.9	144
146	Detection of acutely impaired microvascular reperfusion after infarct angioplasty with magnetic resonance imaging. <i>Circulation</i> , 2004 , 109, 2080-5	16.7	139
145	Imaging in population science: cardiovascular magnetic resonance in 100,000 participants of UK Biobank - rationale, challenges and approaches. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 46	6.9	138
144	Society for Cardiovascular Magnetic Resonance guidelines for reporting cardiovascular magnetic resonance examinations. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11, 5	6.9	138
143	Native T1-mapping detects the location, extent and patterns of acute myocarditis without the need for gadolinium contrast agents. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 36	6.9	136
142	Prognostic value and determinants of a hypointense infarct core in T2-weighted cardiac magnetic resonance in acute reperfused ST-elevation-myocardial infarction. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 354-62	3.9	136
141	Comparative definitions for moderate-severe ischemia in stress nuclear, echocardiography, and magnetic resonance imaging. <i>JACC: Cardiovascular Imaging</i> , 2014 , 7, 593-604	8.4	127
140	T1 mapping in patients with acute myocardial infarction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2003 , 5, 353-9	6.9	122
139	Subclinical cardiotoxic effects of anthracyclines as assessed by magnetic resonance imaging-a pilot study. <i>American Heart Journal</i> , 2001 , 141, 1007-13	4.9	120
138	Cardiac magnetic resonance assessment of myocarditis. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 833-9	5.9	105
137	Quantification of LV function and mass by cardiovascular magnetic resonance: multi-center variability and consensus contours. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 63	6.9	105
136	Cardiac MRI Endpoints in Myocardial Infarction Experimental and Clinical Trials: JACC Scientific Expert Panel. <i>Journal of the American College of Cardiology</i> , 2019 , 74, 238-256	15.1	102

135	Long-term follow-up of patients paragraph sign with acute myocarditis by magnetic paragraph sign resonance imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2003 , 16, 17-20	2.8	96
134	Contrast-enhanced cardiovascular magnetic resonance imaging of right ventricular infarction. <i>Journal of the American College of Cardiology</i> , 2006 , 48, 1969-76	15.1	94
133	Myocardial edema is a feature of Tako-Tsubo cardiomyopathy and is related to the severity of systolic dysfunction: insights from T2-weighted cardiovascular magnetic resonance. <i>International Journal of Cardiology</i> , 2009 , 132, 291-3	3.2	93
132	Myocardial edema--a new clinical entity?. <i>Nature Reviews Cardiology</i> , 2010 , 7, 292-6	14.8	92
131	Management of Acute Myocarditis and Chronic Inflammatory Cardiomyopathy: An Expert Consensus Document. <i>Circulation: Heart Failure</i> , 2020 , 13, e007405	7.6	92
130	Quantification of valvular aortic stenosis by magnetic resonance imaging. <i>American Heart Journal</i> , 2002 , 144, 329-34	4.9	83
129	Hypertrophic Cardiomyopathy Registry: The rationale and design of an international, observational study of hypertrophic cardiomyopathy. <i>American Heart Journal</i> , 2015 , 170, 223-30	4.9	82
128	Comparison of long and short axis quantification of left ventricular volume parameters by cardiovascular magnetic resonance, with ex-vivo validation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13, 40	6.9	75
127	Cardiovascular magnetic resonance of acute myocardial infarction at a very early stage. <i>Journal of the American College of Cardiology</i> , 2003 , 42, 513-8	15.1	73
126	Detection and quantification of myocardial reperfusion hemorrhage using T2*-weighted CMR. <i>JACC: Cardiovascular Imaging</i> , 2011 , 4, 1274-83	8.4	69
125	Tissue characterization of acute myocardial infarction and myocarditis by cardiac magnetic resonance. <i>JACC: Cardiovascular Imaging</i> , 2008 , 1, 652-62	8.4	66
124	The value of magnetic resonance imaging of the left ventricular outflow tract in patients with hypertrophic obstructive cardiomyopathy after septal artery embolization. <i>Circulation</i> , 2000 , 101, 1764-6	16.7	65
123	Multi-Centre, Multi-Vendor and Multi-Disease Cardiac Segmentation: The M&Ms Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 3543-3554	11.7	64
122	Distinct Subgroups in Hypertrophic Cardiomyopathy in the NHLBI HCM Registry. <i>Journal of the American College of Cardiology</i> , 2019 , 74, 2333-2345	15.1	60
121	Chronic manifestation of postreperfusion intramyocardial hemorrhage as regional iron deposition: a cardiovascular magnetic resonance study with ex vivo validation. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 218-28	3.9	60
120	Oxygenation-sensitive cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 43	6.9	56
119	Impact of the revision of arrhythmogenic right ventricular cardiomyopathy/dysplasia task force criteria on its prevalence by CMR criteria. <i>JACC: Cardiovascular Imaging</i> , 2011 , 4, 282-7	8.4	56
118	T2-weighted imaging to assess post-infarct myocardium at risk. <i>JACC: Cardiovascular Imaging</i> , 2011 , 4, 1014-21	8.4	53

117	Blood oxygen level-dependent MRI of tissue oxygenation: relation to endothelium-dependent and endothelium-independent blood flow changes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 1408-13	9.4	48
116	Assessment of acute myocarditis by cardiovascular MR: diagnostic performance of shortened protocols. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 1077-83	2.5	45
115	CMR First-Pass Perfusion for Suspected Inducible Myocardial Ischemia. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 1338-1348	8.4	44
114	The PETALE study: Late adverse effects and biomarkers in childhood acute lymphoblastic leukemia survivors. <i>Pediatric Blood and Cancer</i> , 2017 , 64, e26361	3	43
113	SCMR Position Paper (2020) on clinical indications for cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 76	6.9	43
112	MRI of arrhythmogenic right ventricular cardiomyopathy/dysplasia. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2004 , 6, 557-63	6.9	42
111	Auto-threshold quantification of late gadolinium enhancement in patients with acute heart disease. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 382-90	5.6	39
110	Oxygenation-sensitive CMR for assessing vasodilator-induced changes of myocardial oxygenation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010 , 12, 20	6.9	39
109	Left ventricular outflow tract planimetry by cardiovascular magnetic resonance differentiates obstructive from non-obstructive hypertrophic cardiomyopathy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2006 , 8, 741-6	6.9	39
108	Early diagnosis of acute coronary syndrome. <i>European Heart Journal</i> , 2017 , 38, 3049-3055	9.5	38
107	Society for Cardiovascular Magnetic Resonance (SCMR) guidance for the practice of cardiovascular magnetic resonance during the COVID-19 pandemic. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 26	6.9	37
106	Comparison of different cardiovascular magnetic resonance sequences for native myocardial T1 mapping at 3T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 65	6.9	34
105	Cerebral and myocardial blood flow responses to hypercapnia and hypoxia in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H1678-86	5.2	34
104	Diagnostic and Prognostic Value of Long-Axis Strain and Myocardial Contraction Fraction Using Standard Cardiovascular MR Imaging in Patients with Nonischemic Dilated Cardiomyopathies. <i>Radiology</i> , 2017 , 283, 681-691	20.5	32
103	Predictive value of CMR criteria for LV functional improvement in patients with acute myocarditis. <i>European Heart Journal Cardiovascular Imaging</i> , 2014 , 15, 1140-4	4.1	32
102	No cardioprotective benefit of ischemic postconditioning in patients with ST-segment elevation myocardial infarction. <i>Journal of Interventional Cardiology</i> , 2013 , 26, 482-90	1.8	31
101	Lessons learned from MPI and physiologic testing in randomized trials of stable ischemic heart disease: COURAGE, BARI 2D, FAME, and ISCHEMIA. <i>Journal of Nuclear Cardiology</i> , 2013 , 20, 969-75	2.1	29
100	Breathing manoeuvre-dependent changes in myocardial oxygenation in healthy humans. <i>European Heart Journal Cardiovascular Imaging</i> , 2014 , 15, 409-14	4.1	28

99	Feasibility of cardiovascular magnetic resonance to detect oxygenation deficits in patients with multi-vessel coronary artery disease triggered by breathing maneuvers. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 31	6.9	26
98	Response of myocardial oxygenation to breathing manoeuvres and adenosine infusion. <i>European Heart Journal Cardiovascular Imaging</i> , 2015 , 16, 395-401	4.1	25
97	Rationale, design, and methods for Canadian alliance for healthy hearts and minds cohort study (CAHHM) - a Pan Canadian cohort study. <i>BMC Public Health</i> , 2016 , 16, 650	4.1	24
96	Patterns of myocardial late enhancement: typical and atypical features. <i>Archives of Cardiovascular Diseases</i> , 2012 , 105, 300-8	2.7	24
95	T2-dependent errors in MOLLI T1 values: simulations, phantoms, and in-vivo studies. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	23
94	Cardiovascular magnetic resonance imaging in myocarditis. <i>Progress in Cardiovascular Diseases</i> , 2011 , 54, 266-75	8.5	23
93	Hyperoxia Exacerbates Myocardial Ischemia in the Presence of Acute Coronary Artery Stenosis in Swine. <i>Circulation: Cardiovascular Interventions</i> , 2015 , 8, e002928	6	22
92	CMR imaging of edema in myocardial infarction using cine balanced steady-state free precession. <i>JACC: Cardiovascular Imaging</i> , 2011 , 4, 1265-73	8.4	22
91	The emerging clinical role of cardiovascular magnetic resonance imaging. <i>Canadian Journal of Cardiology</i> , 2010 , 26, 313-22	3.8	22
90	Atherosclerosis imaging and the Canadian Atherosclerosis Imaging Network. <i>Canadian Journal of Cardiology</i> , 2013 , 29, 297-303	3.8	21
89	Diagnosis of viral myocarditis by cardiac magnetic resonance and viral genome detection in peripheral blood. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 121-9	2.5	20
88	Myocardial contraction fraction derived from cardiovascular magnetic resonance cine images-reference values and performance in patients with heart failure and left ventricular hypertrophy. <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 1414-1422	4.1	19
87	Evidence of myocardial edema in patients with nonischemic dilated cardiomyopathy. <i>Clinical Cardiology</i> , 2012 , 35, 371-6	3.3	19
86	Hemorrhage in the myocardium following infarction. <i>JACC: Cardiovascular Imaging</i> , 2010 , 3, 665-8	8.4	19
85	Images in cardiovascular medicine. Partial congenital absence of the pericardium. <i>Circulation</i> , 2007 , 116, e126-9	16.7	19
84	Impact of intermittent apnea on myocardial tissue oxygenation--a study using oxygenation-sensitive cardiovascular magnetic resonance. <i>PLoS ONE</i> , 2013 , 8, e53282	3.7	19
83	Late gadolinium enhancement in cardiac transplant patients is associated with adverse ventricular functional parameters and clinical outcomes. <i>Canadian Journal of Cardiology</i> , 2013 , 29, 1076-83	3.8	18
82	Canadian Society for Cardiovascular Magnetic Resonance (CanSCMR) recommendations for cardiovascular magnetic resonance image analysis and reporting. <i>Canadian Journal of Cardiology</i> , 2013 , 29, 260-5	3.8	18

81	Relationship of vasodilator-induced changes in myocardial oxygenation with the severity of coronary artery stenosis: a study using oxygenation-sensitive cardiovascular magnetic resonance. <i>European Heart Journal Cardiovascular Imaging</i> , 2014 , 15, 1358-67	4.1	17
80	Acute oedema in the evaluation of microvascular reperfusion and myocardial salvage in reperfused myocardial infarction with cardiac magnetic resonance imaging. <i>European Journal of Radiology</i> , 2010 , 74, e12-7	4.7	17
79	Myocardial edema imaging by cardiovascular magnetic resonance: current status and future potential. <i>Current Cardiology Reports</i> , 2012 , 14, 1-6	4.2	16
78	Behaviour of implantable coronary stents during magnetic resonance imaging. <i>International Journal of Cardiovascular Interventions</i> , 1999 , 2, 217-222		16
77	Breathing Maneuvers as a Vasoactive Stimulus for Detecting Inducible Myocardial Ischemia - An Experimental Cardiovascular Magnetic Resonance Study. <i>PLoS ONE</i> , 2016 , 11, e0164524	3.7	14
76	A comprehensive analysis of cardiac valve plane displacement in healthy adults: age-stratified normal values by cardiac magnetic resonance. <i>International Journal of Cardiovascular Imaging</i> , 2017 , 33, 721-729	2.5	13
75	Reduction (TELMAR) as assessed by magnetic resonance imaging in patients with mild-to-moderate hypertension--a prospective, randomised, double-blind comparison of telmisartan with metoprolol over a period of six months rationale and study design. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2003 , 4, 234-43	3	13
74	Gadobutrol-Enhanced Cardiac Magnetic Resonance Imaging for Detection of Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , 2020 , 76, 1536-1547	15.1	13
73	Community delivery of semiautomated fractal analysis tool in cardiac mr for trabecular phenotyping. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 1082-1088	5.6	12
72	Inductive Network Model for the Radiation Analysis of Electrically Small Parallel-Plate Structures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2011 , 53, 1015-1024	2	12
71	Cardiovascular magnetic resonance of myocarditis. <i>Current Cardiology Reports</i> , 2010 , 12, 82-9	4.2	12
70	The impact of hematocrit on oxygenation-sensitive cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 42	6.9	12
69	Cardiovascular magnetic resonance of cardiac morphology and function: impact of different strategies of contour drawing and indexing. <i>Clinical Research in Cardiology</i> , 2019 , 108, 411-429	6.1	12
68	Definition of Left Ventricular Segments for Cardiac Magnetic Resonance Imaging. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 926-928	8.4	12
67	Increased left ventricular extracellular volume and enhanced twist function in type 1 diabetic individuals. <i>Journal of Applied Physiology</i> , 2017 , 123, 394-401	3.7	11
66	CV imaging: what was new in 2012?. <i>JACC: Cardiovascular Imaging</i> , 2013 , 6, 714-34	8.4	11
65	Impact of hyperventilation and apnea on myocardial oxygenation in patients with obstructive sleep apnea - An oxygenation-sensitive CMR study. <i>Journal of Cardiology</i> , 2017 , 69, 489-494	3	11
64	Myocardial oxygenation is maintained during hypoxia when combined with apnea - a cardiovascular MR study. <i>Physiological Reports</i> , 2013 , 1, e00098	2.6	11

63	MR coronary angiography using 3D-SSFP with and without contrast application. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2005 , 7, 809-14	6.9	11
62	Magnetic resonance imaging in cardiomyopathies. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2000 , 2, 67-82	6.9	11
61	Magnetic resonance imaging in patients with cardiomyopathies: when and why. <i>Herz</i> , 2000 , 25, 384-91	2.6	11
60	Indications, safety and image quality of cardiovascular magnetic resonance: experience in >5,000 North American patients. <i>International Journal of Cardiology</i> , 2013 , 168, 3807-11	3.2	10
59	A new approach towards improved visualization of myocardial edema using T2-weighted imaging: a cardiovascular magnetic resonance (CMR) study. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 286-92	5.6	10
58	Importance of Reference Muscle Selection in Quantitative Signal Intensity Analysis of T2-Weighted Images of Myocardial Edema Using a T2 Ratio Method. <i>BioMed Research International</i> , 2015 , 2015, 232649	3.9	9
57	The unique role of cardiovascular magnetic resonance imaging in acute myocarditis. <i>F1000Research</i> , 2018 , 7,	3.6	9
56	Effects of age, gender, and risk-factors for heart failure on native myocardial T and extracellular volume fraction using the SASHA sequence at 1.5T. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 1307-1317	5.6	8
55	Natural History of Myocardial Injury and Chamber Remodeling in Acute Myocarditis. <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e008614	3.9	8
54	Exact Analytical Solution for the Via-Plate Capacitance in Multiple-Layer Structures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 1097-1104	2	8
53	Evaluation of left atrial contraction contribution to left ventricular filling using cardiovascular magnetic resonance. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 860-4	5.6	8
52	Evidence For Acute Myocardial and Skeletal Muscle Injury after Serial Transthoracic Shocks in Healthy Swine. <i>PLoS ONE</i> , 2016 , 11, e0162245	3.7	8
51	Explaining the variability in cardiovascular risk factors among First Nations communities in Canada: a population-based study. <i>Lancet Planetary Health, The</i> , 2019 , 3, e511-e520	9.8	8
50	The Future of Cardiovascular Magnetic Resonance Imaging. <i>European Heart Journal</i> , 2017 , 38, 1698-1701	9.5	7
49	Testing for myocardial ischemia: the end of surrogates?. <i>JACC: Cardiovascular Imaging</i> , 2010 , 3, 385-7	8.4	7
48	Myocardial Vascular Function Assessed by Dynamic Oxygenation-sensitive Cardiac Magnetic Resonance Imaging Long-term Following Cardiac Transplantation. <i>Transplantation</i> , 2021 , 105, 1347-1355	1.8	7
47	Robust cardiac BOLD MRI using an fMRI-like approach with repeated stress paradigms. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 577-85	4.4	6
46	Evidence for non-ischemic scarring in patients with ventricular ectopy. <i>International Journal of Cardiology</i> , 2011 , 147, 482-4	3.2	6

45	COVID-19, myocardial edema and dexamethasone. <i>Medical Hypotheses</i> , 2020 , 145, 110307	3.8	6
44	Reduced Cognitive Assessment Scores Among Individuals With Magnetic Resonance Imaging-Detected Vascular Brain Injury. <i>Stroke</i> , 2020 , 51, 1158-1165	6.7	5
43	Variability of cardiovascular magnetic resonance (CMR) T1 mapping parameters in healthy volunteers during long-term follow-up. <i>Open Heart</i> , 2018 , 5, e000717	3	5
42	Novel Approaches to Myocardial Perfusion: 3D First-Pass CMR Perfusion Imaging and Oxygenation-Sensitive CMR. <i>Current Cardiovascular Imaging Reports</i> , 2014 , 7, 1	0.7	5
41	Cardiac magnetic resonance imaging: current status and future directions. <i>Expert Review of Cardiovascular Therapy</i> , 2010 , 8, 1175-89	2.5	5
40	Images in cardiology. Cardiac magnetic resonance imaging in Löffler's endocarditis. <i>Canadian Journal of Cardiology</i> , 2008 , 24, e89-90	3.8	5
39	Sensitivity and specificity of chest imaging for sarcoidosis screening in patients with cardiac presentations. <i>Sarcoidosis Vasculitis and Diffuse Lung Diseases</i> , 2019 , 36, 18-24	1.1	5
38	Cardiovascular Magnetic Resonance for Patients With COVID-19. <i>JACC: Cardiovascular Imaging</i> , 2021 ,	8.4	5
37	Hyperventilation/Breath-Hold Maneuver to Detect Myocardial Ischemia by Strain-Encoded CMR: Diagnostic Accuracy of a Needle-Free Stress Protocol. <i>JACC: Cardiovascular Imaging</i> , 2021 , 14, 1932-1944	8.4	5
36	Cardiovascular risk scoring and magnetic resonance imaging detected subclinical cerebrovascular disease. <i>European Heart Journal Cardiovascular Imaging</i> , 2020 , 21, 692-700	4.1	5
35	Routine versus selective cardiac magnetic resonance in non-ischemic heart failure - OUTSMART-HF: study protocol for a randomized controlled trial (IMAGE-HF (heart failure) project 1-B). <i>Trials</i> , 2013 , 14, 332	2.8	4
34	Breathing maneuvers as a coronary vasodilator for myocardial perfusion imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 947-55	5.6	4
33	Hyperventilation-induced heart rate response as a potential marker for cardiovascular disease. <i>Scientific Reports</i> , 2019 , 9, 17887	4.9	4
32	Cardiovascular risk is associated with a transmural gradient of myocardial oxygenation during adenosine infusion. <i>European Heart Journal Cardiovascular Imaging</i> , 2019 , 20, 1287-1295	4.1	4
31	Effect of Cognitive Reserve on the Association of Vascular Brain Injury With Cognition: Analysis of the PURE and CAHHM Studies. <i>Neurology</i> , 2021 , 97, e1707-e1716	6.5	4
30	The State of Cardiovascular Magnetic Resonance Imaging in Canada: Results from the CanSCMR Pan-Canadian Survey. <i>Canadian Journal of Cardiology</i> , 2018 , 34, 333-336	3.8	3
29	Intra-thoracic adiposity is associated with impaired contractile function in patients with coronary artery disease: a cardiovascular magnetic resonance imaging study. <i>International Journal of Cardiovascular Imaging</i> , 2019 , 35, 121-131	2.5	3
28	Imaging Targets in Diabetic Cardiomyopathy: Current Status and Perspective. <i>Canadian Journal of Diabetes</i> , 2011 , 35, 353-362	2.1	3

27	Magnetic resonance imaging in vascular biology?. <i>Artery Research</i> , 2008 , 2, 9	2.2	3
26	Stenotic mitral valve prosthesis with left atrial thrombus. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2005 , 7, 421-3	6.9	3
25	The role of MRI and CT for diagnosis and work-up in suspected ACS. <i>Diagnosis</i> , 2016 , 3, 143-154	4.2	3
24	Diabetes, Brain Infarcts, Cognition, and Small Vessels in the Canadian Alliance for Healthy Hearts and Minds Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021 , 106, e891-e898	5.6	3
23	Current status of cardiovascular magnetic resonance imaging in the assessment of coronary vasculature. <i>Canadian Journal of Cardiology</i> , 2010 , 26 Suppl A, 51A-55A	3.8	2
22	Insights Into Myocardial Oxygenation and Cardiovascular Magnetic Resonance Tissue Biomarkers in Heart Failure With Preserved Ejection Fraction.. <i>Circulation: Heart Failure</i> , 2022 , CIRCHEARTFAILURE121008903 ²	7.6	3
21	The role of cardiovascular magnetic resonance in the evaluation of acute myocarditis and inflammatory cardiomyopathies in clinical practice - a comprehensive review.. <i>European Heart Journal Cardiovascular Imaging</i> , 2022 ,	4.1	2
20	Evaluation of Adiposity and Cognitive Function in Adults.. <i>JAMA Network Open</i> , 2022 , 5, e2146324	10.4	2
19	Regional Heterogeneity in the Coronary Vascular Response in Women With Chest Pain and Nonobstructive Coronary Artery Disease. <i>Circulation</i> , 2021 , 143, 764-766	16.7	2
18	Cardiac magnetic resonance imaging of noncompaction cardiomyopathy. <i>Canadian Journal of Cardiology</i> , 2008 , 24, 798	3.8	1
17	Endocarditis and extrinsic coronary compression. <i>American Journal of Medicine</i> , 2002 , 113, 440-1	2.4	1
16	Feasibility of fast cardiovascular magnetic resonance strain imaging in patients presenting with acute chest pain. <i>PLoS ONE</i> , 2021 , 16, e0251040	3.7	1
15	The impact of Wilson disease on myocardial tissue and function: a cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 84	6.9	1
14	The Potential of Oxygenation-Sensitive CMR in Heart Failure. <i>Current Heart Failure Reports</i> , 2021 , 18, 304-314	2.8	1
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