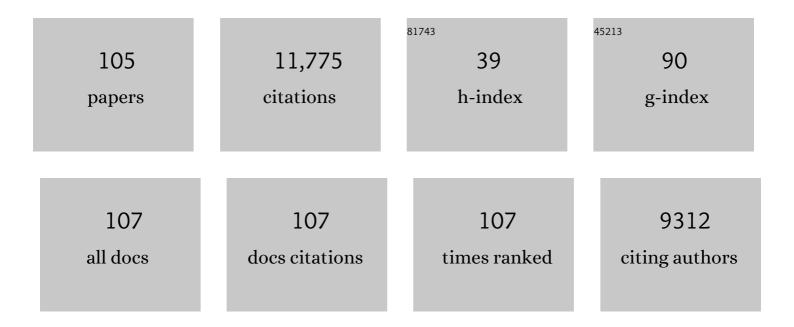
Anthony H Aletras

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Superâ€Resolution Cine Image Enhancement for Fetal Cardiac Magnetic Resonance Imaging. Journal of Magnetic Resonance Imaging, 2022, 56, 223-231.	1.9	10
2	Roadmap on signal processing for next generation measurement systems. Measurement Science and Technology, 2022, 33, 012002.	1.4	12
3	Validation and quantification of left ventricular function during exercise and free breathing from real-time cardiac magnetic resonance images. Scientific Reports, 2022, 12, 5611.	1.6	1
4	Simulator-generated training datasets as an alternative to using patient data for machine learning: An example in myocardial segmentation with MRI. Computer Methods and Programs in Biomedicine, 2021, 198, 105817.	2.6	8
5	Freeâ€breathing fetal cardiac MRI with doppler ultrasound gating, compressed sensing, and motion compensation. Journal of Magnetic Resonance Imaging, 2020, 51, 260-272.	1.9	25
6	Measuring extracellular volume fraction by MRI: First verification of values given by clinical sequences. Magnetic Resonance in Medicine, 2020, 83, 662-672.	1.9	5
7	Cardiac MRI Endpoints in MyocardialÂInfarction Experimental andÂClinicalÂTrials. Journal of the American College of Cardiology, 2019, 74, 238-256.	1.2	235
8	coreMRI: A high-performance, publicly available MR simulation platform on the cloud. PLoS ONE, 2019, 14, e0216594.	1.1	10
9	A new vessel segmentation algorithm for robust blood flow quantification from twoâ€dimensional phaseâ€contrast magnetic resonance images. Clinical Physiology and Functional Imaging, 2019, 39, 327-338.	0.5	15
10	Fetal iGRASP cine CMR assisting in prenatal diagnosis of complicated cardiac malformation with impact on delivery planning. Clinical Physiology and Functional Imaging, 2019, 39, 231-235.	0.5	9
11	Current and Emerging Technologies for Cardiovascular Imaging. Series in Bioengineering, 2019, , 13-59.	0.3	0
12	Quantification of blood flow in the fetus with cardiovascular magnetic resonance imaging using Doppler ultrasound gating: validation against metric optimized gating. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 74.	1.6	19
13	Independent validation of metric optimized gating for fetal cardiovascular phase ontrast flow imaging. Magnetic Resonance in Medicine, 2019, 81, 495-503.	1.9	11
14	Simulation-based quantification of native T1 and T2 of the myocardium using a modified MOLLI scheme and the importance of Magnetization Transfer. Magnetic Resonance Imaging, 2018, 48, 96-106.	1.0	12
15	Automatic lung segmentation in functional SPECT images using active shape models trained on reference lung shapes from CT. Annals of Nuclear Medicine, 2018, 32, 94-104.	1.2	8
16	Cardiac magnetic resonance imaging in myocardial inflammation in autoimmune rheumatic diseases: An appraisal of the diagnostic strengths and limitations of the Lake Louise criteria. International Journal of Cardiology, 2018, 252, 216-219.	0.8	32
17	Association of Unrecognized Myocardial Infarction With Long-term Outcomes in Community-Dwelling Older Adults. JAMA Cardiology, 2018, 3, 1101.	3.0	39
18	Dynamic fetal cardiovascular magnetic resonance imaging using Doppler ultrasound gating. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 17.	1.6	55

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19	Importance of standardizing timing of hematocrit measurement when using cardiovascular magnetic resonance to calculate myocardial extracellular volume (ECV) based on pre- and post-contrast T1 mapping. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 46.	1.6	22
20	Self-gated fetal cardiac MRI with tiny golden angle iGRASP: A feasibility study. Journal of Magnetic Resonance Imaging, 2017, 46, 207-217.	1.9	45
21	Cloud GPU-based simulations for SQUAREMR. Journal of Magnetic Resonance, 2017, 274, 80-88.	1.2	2
22	Validation of T1 and T2 algorithms for quantitative MRI: performance by a vendor-independent software. BMC Medical Imaging, 2016, 16, 46.	1.4	12
23	The evolution of myocardium at risk by T2-STIR MR imaging the first week after acute myocardial ischemia. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P94.	1.6	0
24	Cardiovascular magnetic resonance in rheumatology: Current status and recommendations for use. International Journal of Cardiology, 2016, 217, 135-148.	0.8	114
25	Multi-vendor, multicentre comparison of contrast-enhanced SSFP and T2-STIR CMR for determining myocardium at risk in ST-elevation myocardial infarction. European Heart Journal Cardiovascular Imaging, 2016, 17, 744-753.	0.5	47
26	Validation of a new t2* algorithm and its uncertainty value for cardiac and liver iron load determination from MRI magnitude images. Magnetic Resonance in Medicine, 2016, 75, 1717-1729.	1.9	9
27	Using a modified 3D-printer for mapping the magnetic field of RF coils designed for fetal and neonatal imaging. Journal of Magnetic Resonance, 2016, 269, 146-151.	1.2	4
28	Extent of Myocardium at Risk for Left Anterior Descending Artery, Right Coronary Artery, and Left Circumflex Artery Occlusion Depicted by Contrast-Enhanced Steady State Free Precession and T2-Weighted Short Tau Inversion Recovery Magnetic Resonance Imaging. Circulation: Cardiovascular Imaging, 2016, 9, .	1.3	20
29	MR photography of 3D-MR images. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P33.	1.6	Ο
30	New automatic algorithm for segmentation of myocardial scar in both inversion recovery and phase sensitive inversion recovery late gadolinium enhancement: validation against TTC and in multi-center, multi-vendor patient data. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P221.	1.6	0
31	Accelerated cloud and GPU-based simulations for quantification of relaxation times: an example with MOLLI. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P42.	1.6	0
32	Validation of a T1 and T2 mapping software for quantitative MRI. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W28.	1.6	0
33	A new automatic algorithm for quantification of myocardial infarction imaged by late gadolinium enhancement cardiovascular magnetic resonance: experimental validation and comparison to expert delineations in multi-center, multi-vendor patient data. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 27.	1.6	67
34	Automatic segmentation of myocardium at risk from contrast enhanced SSFP CMR: validation against expert readers and SPECT. BMC Medical Imaging, 2016, 16, 19.	1.4	11
35	Experimental validation of contrast-enhanced SSFP cine CMR for quantification of myocardium at risk in acute myocardial infarction. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 12.	1.6	22
36	Fully quantitative cardiovascular magnetic resonance myocardial perfusion ready for clinical use: a comparison between cardiovascular magnetic resonance imaging and positron emission tomography. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 78.	1.6	110

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37	Massively parallel CUDA simulations of cardiac and embryonic MRI on a cloud-based cluster. , 2015, , .		1
38	Parallel simulations for QUAntifying RElaxation magnetic resonance constants (SQUAREMR): an example towards accurate MOLLI T1 measurements. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 104.	1.6	19
39	Semi-automatic segmentation of myocardium at risk from contrast enhanced SSFP images - validation against manual delineation and SPECT. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q127.	1.6	0
40	Simulating MR imaging for the human embryonic heart. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P48.	1.6	0
41	A new validated T2* analysis method with certainty estimates for cardiac and liver iron load determination. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P52.	1.6	2
42	Regional adenosine-induced hypoperfusion without hyperenhancement on LGE-MRI in young HCM patients: comparison to subjects at risk of HCM and healthy volunteers. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q51.	1.6	0
43	Regional Stress-Induced Ischemia in Non-fibrotic Hypertrophied Myocardium in Young HCM Patients. Pediatric Cardiology, 2015, 36, 1662-1669.	0.6	20
44	High performance MRI simulations of motion on multi-GPU systems. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 48.	1.6	25
45	MRISIMUL: A GPU-Based Parallel Approach to MRI Simulations. IEEE Transactions on Medical Imaging, 2014, 33, 607-617.	5.4	46
46	Quantification of myocardial salvage by myocardial perfusion SPECT and cardiac magnetic resonance — reference standards for ECG development. Journal of Electrocardiology, 2014, 47, 525-534.	0.4	4
47	Diagnostic Accuracy of Stress Perfusion CMR in Comparison With Quantitative Coronary Angiography. JACC: Cardiovascular Imaging, 2014, 7, 14-22.	2.3	97
48	Navigated DENSE strain imaging for post-radiofrequency ablation lesion assessment in the swine left atria. Europace, 2014, 16, 133-141.	0.7	5
49	A high performance parallelizable MRI physics simulator with graphic processing unit technology. Journal of Cardiovascular Magnetic Resonance, 2013, 15, E45.	1.6	0
50	Accelerated MR physics simulations on multi-GPU systems. , 2013, , .		0
51	Prevalence and Prognosis of Unrecognized Myocardial Infarction Determined by Cardiac Magnetic Resonance in Older Adults. JAMA - Journal of the American Medical Association, 2012, 308, 890.	3.8	234
52	Extracellular volume imaging by magnetic resonance imaging provides insights into overt and sub-clinical myocardial pathology. European Heart Journal, 2012, 33, 1268-1278.	1.0	482
53	A Quantitative Pixel-Wise Measurement of Myocardial Blood Flow by Contrast-Enhanced First-Pass CMR Perfusion Imaging. JACC: Cardiovascular Imaging, 2012, 5, 154-166.	2.3	120
54	Myocardial Edema as Detected by Pre-Contrast T1 and T2 CMR Delineates Area at Risk Associated With Acute Myocardial Infarction. JACC: Cardiovascular Imaging, 2012, 5, 596-603.	2.3	283

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55	Understanding why edema in salvaged myocardium is difficult to detect by late gadolinium enhancement. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	5
56	Quantitative T1-maps delineate myocardium at risk as accurately as T2-maps - experimental validation with microspheres. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	3
57	Non-contrast quantitative T1-mapping indicates that salvaged myocardium develops edema during coronary occlusion, whereas infarction exhibits evidence of additional reperfusion injury. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	3
58	Comparison of arterial input function measured from dual-bolus and dual-sequence dynamic contrast-enhanced cardiac magnetic resonance imaging. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	1
59	Myocardial extracellular volume imaging by CMR quantitatively characterizes myocardial infarction and subclinical myocardial fibrosis. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	3
60	Edema by T2-weighted imaging in salvaged myocardium is extracellular, not intracellular. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	4
61	Heterogeneity of Intramural Function in Hypertrophic Cardiomyopathy. Circulation: Cardiovascular Imaging, 2011, 4, 425-434.	1.3	44
62	Bright-Blood T ₂ -Weighted MRI Has High Diagnostic Accuracy for Myocardial Hemorrhage in Myocardial Infarction. Circulation: Cardiovascular Imaging, 2011, 4, 738-745.	1.3	57
63	Magnetic Resonance Imaging Delineates the Ischemic Area at Risk and Myocardial Salvage in Patients With Acute Myocardial Infarction. Circulation: Cardiovascular Imaging, 2010, 3, 527-535.	1.3	114
64	Late Gadolinium-Enhancement Cardiac Magnetic Resonance Identifies Postinfarction Myocardial Fibrosis and the Border Zone at the Near Cellular Level in Ex Vivo Rat Heart. Circulation: Cardiovascular Imaging, 2010, 3, 743-752.	1.3	156
65	Cardiovascular Magnetic Resonance in Myocarditis: A JACC White Paper. Journal of the American College of Cardiology, 2009, 53, 1475-1487.	1.2	2,055
66	Estimation of absolute myocardial blood flow during firstâ€pass MR perfusion imaging using a dualâ€bolus injection technique: Comparison to singleâ€bolus injection method. Journal of Magnetic Resonance Imaging, 2008, 27, 1271-1277.	1.9	76
67	ACUT ₂ E TSEâ€SSFP: A hybrid method for T2â€weighted imaging of edema in the heart. Magnetic Resonance in Medicine, 2008, 59, 229-235.	1.9	536
68	Nitrite Anion Provides Potent Cytoprotective and Antiapoptotic Effects as Adjunctive Therapy to Reperfusion for Acute Myocardial Infarction. Circulation, 2008, 117, 2986-2994.	1.6	157
69	Correcting surface coil intensity inhomogeneity improves quantitative analysis of cardiac magnetic resonance images. , 2008, , .		6
70	In Vivo T2-Weighted Magnetic Resonance Imaging Can Accurately Determine the Ischemic Area at Risk for 2-Day-Old Nonreperfused Myocardial Infarction. Investigative Radiology, 2008, 43, 7-15.	3.5	88
71	Quantitative MRI Techniques in Regional Myocardial Function. , 2008, , 123-154.		0
72	Ageâ€Related Vascular Stiffness and Left Ventricular Size After Myocardial Infarction. The American Journal of Geriatric Cardiology, 2007, 16, 222-228.	0.7	12

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73	T2-prepared SSFP improves diagnostic confidence in edema imaging in acute myocardial infarction compared to turbo spin echo. Magnetic Resonance in Medicine, 2007, 57, 891-897.	1.9	219
74	Myocardial Strain Decreases with Increasing Transmurality of Infarction: A Doppler Echocardiographic and Magnetic Resonance Correlation Study. Journal of the American Society of Echocardiography, 2006, 19, 34-39.	1.2	23
75	Prognosis of Negative Adenosine Stress Magnetic Resonance in Patients Presenting to an Emergency Department With Chest Pain. Journal of the American College of Cardiology, 2006, 47, 1427-1432.	1.2	285
76	Retrospective Determination of the Area at Risk for Reperfused Acute Myocardial Infarction With T2-Weighted Cardiac Magnetic Resonance Imaging. Circulation, 2006, 113, 1865-1870.	1.6	902
77	T2* measurement during first-pass contrast-enhanced cardiac perfusion imaging. Magnetic Resonance in Medicine, 2006, 56, 1132-1134.	1.9	24
78	Quantitative myocardial infarction on delayed enhancement MRI. Part II: Clinical application of an automated feature analysis and combined thresholding infarct sizing algorithm. Journal of Magnetic Resonance Imaging, 2006, 23, 309-314.	1.9	77
79	Quantitative myocardial infarction on delayed enhancement MRI. Part I: Animal validation of an automated feature analysis and combined thresholding infarct sizing algorithm. Journal of Magnetic Resonance Imaging, 2006, 23, 298-308.	1.9	154
80	Quantitative myocardial perfusion analysis with a dual-bolus contrast-enhanced first-pass MRI technique in humans. Journal of Magnetic Resonance Imaging, 2006, 23, 315-322.	1.9	130
81	Computerized measurement of myocardial infarct size on contrast-enhanced magnetic resonance images. , 2005, , .		0
82	DENSE with SENSE. Journal of Magnetic Resonance, 2005, 176, 99-106.	1.2	32
83	Wash-in kinetics for gadolinium-enhanced magnetic resonance imaging of carotid atheroma. Journal of Magnetic Resonance Imaging, 2005, 21, 91-95.	1.9	34
84	Manganese enhanced magnetic resonance imaging of normal and ischemic canine heart. Magnetic Resonance in Medicine, 2005, 54, 196-200.	1.9	31
85	Determining Canine Myocardial Area at Risk with Manganese-enhanced MR Imaging. Radiology, 2005, 236, 859-866.	3.6	29
86	Absolute Myocardial Perfusion in Canines Measured by Using Dual-Bolus First-Pass MR Imaging. Radiology, 2004, 232, 677-684.	3.6	271
87	Artifact suppression in imaging of myocardial infarction usingB1-weighted phased-array combined phase-sensitive inversion recovery. Magnetic Resonance in Medicine, 2004, 51, 408-412.	1.9	20
88	AIR-SPAMM: alternative inversion recovery spatial modulation of magnetization for myocardial tagging. Journal of Magnetic Resonance, 2004, 166, 236-245.	1.2	8
89	meta-DENSE complex acquisition for reduced intravoxel dephasing. Journal of Magnetic Resonance, 2004, 169, 246-249.	1.2	22
90	Gadolinium delayed enhancement cardiovascular magnetic resonance correlates with clinical measures of myocardial infarction. Journal of the American College of Cardiology, 2004, 43, 2253-2259.	1.2	292

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91	Detecting Acute Coronary Syndrome in the Emergency Department With Cardiac Magnetic Resonance Imaging. Circulation, 2003, 107, 531-537.	1.6	328
92	Stunned, Infarcted, and Normal Myocardium in Dogs: Simultaneous Differentiation by Using Gadolinium-enhanced Cine MR Imaging with Magnetization Transfer Contrast. Radiology, 2003, 226, 723-730.	3.6	39
93	Phase-sensitive inversion recovery for detecting myocardial infarction using gadolinium-delayed hyperenhancement. Magnetic Resonance in Medicine, 2002, 47, 372-383.	1.9	941
94	Multishot EPI-SSFP in the heart. Magnetic Resonance in Medicine, 2002, 47, 655-664.	1.9	40
95	The Overall Pattern of Cardiac Contraction Depends on a Spatial Gradient of Myosin Regulatory Light Chain Phosphorylation. Cell, 2001, 107, 631-641.	13.5	245
96	Mixed echo train acquisition displacement encoding with stimulated echoes: An optimized DENSE method for in vivo functional imaging of the human heart. Magnetic Resonance in Medicine, 2001, 46, 523-534.	1.9	79
97	In vivo1H double quantum filtered MRI of the human wrist and ankle. Magnetic Resonance in Medicine, 2000, 43, 640-644.	1.9	11
98	A New Class of Contrast Agents for MRI Based on Proton Chemical Exchange Dependent Saturation Transfer (CEST). Journal of Magnetic Resonance, 2000, 143, 79-87.	1.2	1,209
99	Imaging of urea using chemical exchange-dependent saturation transfer at 1.5T. Journal of Magnetic Resonance Imaging, 2000, 12, 745-748.	1.9	58
100	DENSE: Displacement Encoding with Stimulated Echoes in Cardiac Functional MRI. Journal of Magnetic Resonance, 1999, 137, 247-252.	1.2	453
101	High-Resolution Strain Analysis of the Human Heart with Fast-DENSE. Journal of Magnetic Resonance, 1999, 140, 41-57.	1.2	111
102	Alternate <i>k</i> â€space sampling in EPI: Compensation for <i>T</i> ₂ * and adjustable <i>T</i> ₂ weighting. Magnetic Resonance in Medicine, 1996, 35, 617-620.	1.9	2
103	Spatial Localization with Modified Fourier Series Windows. Investigative Radiology, 1996, 31, 611-618.	3.5	3
104	3D Echo Planar Imaging: Application to the Human Head. Magnetic Resonance in Medicine, 1995, 34, 144-148.	1.9	10
105	Torque free asymmetric gradient coils for echo planar imaging. Magnetic Resonance in Medicine, 1994, 31, 450-453.	1.9	44