## Michael S Hansen

List of Publications by Year in descending order

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Version: 2024-02-01

88 papers

4,772 citations

35 h-index 95266 68 g-index

88 all docs 88 docs citations

88 times ranked 5044 citing authors

#	Article	IF	CITATIONS
1	Equilibrium Contrast Cardiovascular Magnetic Resonance for the Measurement of Diffuse Myocardial Fibrosis. Circulation, 2010, 122, 138-144.	1.6	793
2	T1-mapping in the heart: accuracy and precision. Journal of Cardiovascular Magnetic Resonance, 2014, $16, 2$ .	3.3	551
3	Gadgetron: An open source framework for medical image reconstruction. Magnetic Resonance in Medicine, 2013, 69, 1768-1776.	3.0	237
4	Opportunities in Interventional and Diagnostic Imaging by Using High-Performance Low-Field-Strength MRI. Radiology, 2019, 293, 384-393.	7.3	224
5	Myocardial perfusion cardiovascular magnetic resonance: optimized dual sequence and reconstruction for quantification. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 43.	3.3	185
6	Accelerating cine phase-contrast flow measurements usingk-t BLAST andk-t SENSE. Magnetic Resonance in Medicine, 2005, 54, 1430-1438.	3.0	127
7	Whole-heart cine MRI using real-time respiratory self-gating. Magnetic Resonance in Medicine, 2007, 57, 606-613.	3.0	120
8	Adiabatic inversion pulses for myocardial T1 mapping. Magnetic Resonance in Medicine, 2014, 71, 1428-1434.	3.0	119
9	Wall shear rates differ between the normal carotid, femoral, and brachial arteries: An in vivo MRI study. Journal of Magnetic Resonance Imaging, 2004, 19, 188-193.	3.4	116
10	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.	3.3	110
11	Improvement in left ventricular filling properties after relief of right ventricle to pulmonary artery conduit obstruction: contribution of septal motion and interventricular mechanical delay. European Heart Journal, 2009, 30, 2266-2274.	2.2	95
12	Accelerating the Nonequispaced Fast Fourier Transform on Commodity Graphics Hardware. IEEE Transactions on Medical Imaging, 2008, 27, 538-547.	8.9	91
13	Real-time MRI-guided right heart catheterization in adults using passive catheters. European Heart Journal, 2013, 34, 380-389.	2.2	88
14	Influence of Off-resonance in myocardial T1-mapping using SSFP based MOLLI method. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 63.	3.3	85
15	Real-time Assessment of Right and Left Ventricular Volumes and Function in Patients with Congenital Heart Disease by Using High Spatiotemporal Resolution Radial k-t SENSE. Radiology, 2008, 248, 782-791.	7.3	81
16	Characterization of myocardial T1-mapping bias caused by intramyocardial fat in inversion recovery and saturation recovery techniques. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 33.	3.3	80
17	Retrospective reconstruction of high temporal resolution cine images from realâ€time MRI using iterative motion correction. Magnetic Resonance in Medicine, 2012, 68, 741-750.	3.0	78
18	Cartesian SENSE and <i>k</i> â€ <i>t</i> SENSE reconstruction using commodity graphics hardware. Magnetic Resonance in Medicine, 2008, 59, 463-468.	3.0	76

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19	High spatial and temporal resolution retrospective cine cardiovascular magnetic resonance from shortened free breathing real-time acquisitions. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 102.	3.3	<b>7</b> 5
20	Going virtual with quicktime VR: New methods and standardized tools for interactive dynamic visualization of anatomical structures. The Anatomical Record, 2000, 261, 64-77.	1.8	67
21	Dark blood late enhancement imaging. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 77.	3.3	64
22	On the influence of training data quality ink-t BLAST reconstruction. Magnetic Resonance in Medicine, 2004, 52, 1175-1183.	3.0	61
23	Cardiac and Respiratory Motion Correction for Simultaneous Cardiac PET/MR. Journal of Nuclear Medicine, 2017, 58, 846-852.	5.0	60
24	ISMRM Raw data format: A proposed standard for MRI raw datasets. Magnetic Resonance in Medicine, 2017, 77, 411-421.	3.0	59
25	Feasibility and reproducibility of biventricular volumetric assessment of cardiac function during exercise using realâ€time radial <i>k</i> á€ <i>t</i> SENSE magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2009, 29, 1062-1070.	3.4	56
26	Realâ€time distortion correction of spiral and echo planar images using the gradient system impulse response function. Magnetic Resonance in Medicine, 2016, 75, 2278-2285.	3.0	56
27	Real-Time Reconstruction of Sensitivity Encoded Radial Magnetic Resonance Imaging Using a Graphics Processing Unit. IEEE Transactions on Medical Imaging, 2009, 28, 1974-1985.	8.9	55
28	Native T1 values identify myocardial changes and stratify disease severity in patients with Duchenne muscular dystrophy. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 72.	3.3	51
29	Distributed MRI reconstruction using gadgetron-based cloud computing. Magnetic Resonance in Medicine, 2015, 73, 1015-1025.	3.0	50
30	Rapid Flow Assessment of Congenital Heart Disease with High-Spatiotemporal-Resolution Gated Spiral Phase-Contrast MR Imaging. Radiology, 2011, 260, 79-87.	7.3	49
31	Radiation-free CMR diagnostic heart catheterization in children. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 65.	3.3	45
32	k-t BLAST reconstruction from non-Cartesiank-t space sampling. Magnetic Resonance in Medicine, 2006, 55, 85-91.	3.0	44
33	Image reconstruction: An overview for clinicians. Journal of Magnetic Resonance Imaging, 2015, 41, 573-585.	3.4	43
34	CMR fluoroscopy right heart catheterization for cardiac output and pulmonary vascular resistance: results in 102 patients. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 54.	3.3	41
35	Prospective comparison of novel dark blood late gadolinium enhancement with conventional bright blood imaging for the detection of scar. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 91.	3.3	36
36	Myocardial T2* mapping: influence of noise on accuracy and precision. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 7.	3.3	35

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37	Accelerated dynamic Fourier velocity encoding by exploiting velocity-spatio-temporal correlations. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2004, 17, 86-94.	2.0	31
38	Free-breathing T2* mapping using respiratory motion corrected averaging. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 3.	3.3	29
39	Improved cardiac magnetic resonance thermometry and dosimetry for monitoring lesion formation during catheter ablation. Magnetic Resonance in Medicine, 2017, 77, 673-683.	3.0	26
40	Wholeâ€heart imaging using undersampled radial phase encoding (RPE) and iterative sensitivity encoding (SENSE) reconstruction. Magnetic Resonance in Medicine, 2009, 62, 1331-1337.	3.0	25
41	Closed-Chest Transthoracic Magnetic Resonance Imaging-Guided Ventricular Septal Defect Closure in Swine. JACC: Cardiovascular Interventions, 2011, 4, 1326-1334.	2.9	25
42	Improved workflow for quantification of left ventricular volumes and mass using free-breathing motion corrected cine imaging. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 10.	3.3	24
43	Magnetic Resonance Sequences and Rapid Acquisition for MR-Guided Interventions. Magnetic Resonance Imaging Clinics of North America, 2015, 23, 669-679.	1.1	23
44	Magnetic Resonance Imaging–Guided Transcatheter Cavopulmonary Shunt. JACC: Cardiovascular Interventions, 2016, 9, 959-970.	2.9	23
45	Predictors and prognosis of right ventricular function in pulmonary hypertension due to heart failure with reduced ejection fraction. ESC Heart Failure, 2021, 8, 2968-2981.	3.1	23
46	Determination of Peak Velocity in Stenotic Areas: Echocardiography versus k-t SENSE Accelerated MR Fourier Velocity Encoding. Radiology, 2008, 246, 249-257.	7.3	22
47	Real-time cardiovascular magnetic resonance subxiphoid pericardial access and pericardiocentesis using off-the-shelf devices in swine. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 61.	3.3	22
48	Parallel transmit excitation at 1.5 T based on the minimization of a driving function for device heating. Medical Physics, 2015, 42, 359-371.	3.0	22
49	Direct Percutaneous Left Ventricular Access and Port Closure. JACC: Cardiovascular Interventions, 2011, 4, 1318-1325.	2.9	21
50	Transthoracic delivery of large devices into the left ventricle through the right ventricle and interventricular septum: preclinical feasibility. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 10.	3.3	20
51	Free-breathing motion-corrected late-gadolinium-enhancement imaging improves image quality in children. Pediatric Radiology, 2016, 46, 983-990.	2.0	20
52	User-initialized active contour segmentation and golden-angle real-time cardiovascular magnetic resonance enable accurate assessment of LV function in patients with sinus rhythm and arrhythmias. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 37.	3.3	19
53	Lipid content in the musculature of the lower leg: Evaluation with high-resolution spectroscopic imaging. Magnetic Resonance in Medicine, 2005, 54, 152-158.	3.0	18
54	Spiral tissue phase velocity mapping in a breathâ€hold with nonâ€cartesian SENSE. Magnetic Resonance in Medicine, 2014, 72, 659-668.	3.0	18

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55	Real-Time Magnetic Resonance Imaging TechniqueÂfor Determining Left Ventricle Pressure-Volume Loops. Annals of Thoracic Surgery, 2014, 97, 1597-1603.	1.3	18
56	Optimized protocols for cardiac magnetic resonance imaging in patients with thoracic metallic implants. Pediatric Radiology, 2015, 45, 1455-1464.	2.0	18
57	Dual echo positive contrast bSSFP for real-time visualization of passive devices duringmagnetic resonance guided cardiovascular catheterization. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 88.	3.3	17
58	Acute Cardiac MRI Assessment of Radiofrequency Ablation Lesions for Pediatric Ventricular Arrhythmia: Feasibility and Clinical Correlation. Journal of Cardiovascular Electrophysiology, 2017, 28, 517-522.	1.7	14
59	Positive contrast spiral imaging for visualization of commercial nitinol guidewires with reduced heating. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 114.	3.3	12
60	Wireless access to a pharmaceutical database: A demonstrator for data driven Wireless Application Protocol applications in medical information processing. Journal of Medical Internet Research, 2001, 3, e4.	<b>4.</b> 3	11
61	Virtual dye angiography: Flow visualization for MRlâ€guided interventions. Magnetic Resonance in Medicine, 2012, 67, 1013-1021.	3.0	9
62	Noise propagation in region of interest measurements. Magnetic Resonance in Medicine, 2015, 73, 1300-1308.	3.0	8
63	Dark blood Late Gadolinium Enhancement improves conspicuity of ablation lesions. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P211.	3.3	8
64	Interventional-Cardiovascular MR: Role of the Interventional MR Technologist. Radiologic Technology, 2016, 87, 261-70.	0.1	8
65	Interactive black blood preparation for interventional cardiovascular MRI. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P32.	3.3	7
66	Image Fusion Guided Device Closure of Left Ventricle to Right Atrium Shunt. Circulation, 2015, 132, 1366-1367.	1.6	6
67	Accelerated parallel imaging by transform coding data compression with k-t SENSE., 2006, 2006, 372.		4
68	Method for calculating confidence intervals for phase contrast flow measurements. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 46.	<b>3.</b> 3	4
69	Transcatheter bidirectional Glenn shunt guided by real-time MRI. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O23.	3.3	2
70	Correcting T2* effects in the myocardial perfusion arterial input function avoids overestimation of myocardial blood flow. Journal of Cardiovascular Magnetic Resonance, 2016, 18, Q14.	<b>3.</b> 3	2
71	Two RR myocardial perfusion acquisition achieves unbiased Myocardial Blood Flow (MBF) estimates. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W12.	3.3	2
72	Breath-hold spiral tissue phase velocity mapping (TPVM) with non-Cartesian SENSE. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P40.	3.3	1

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73	Realtime MR guided endomyocardial biopsy with an active visualization bioptome. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P235.	3.3	1
74	Two channel passive visualization of a nitinol guidewire with iron markers. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P236.	3.3	1
75	Continuous adaptive radial sampling of k-space from real-time physiologic feedback in MRI. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P37.	3.3	1
76	Real-time inversion recovery for infarct visualization during MR-guided interventions. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P205.	3.3	1
77	A Comprehensive Free-Breathing Protocol for Cardiovascular Magnetic Resonance Imaging of Ischemia and Cardiomyopathies: a Feasibility Study. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P313.	3.3	1
78	Inline quantitative myocardial perfusion flow mapping. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W8.	3.3	1
79	A framework for constraining image SNR loss due to MR raw data compression. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 213-225.	2.0	1
80	Self-navigated ideal water-fat separation with variable k-space averaging. , 2009, , .		0
81	Equilibrium contrast CMR for the measurement of diffuse myocardial fibrosis. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	O
82	Virtual Dye Angiography: flow visualization for MRI-guided interventions using endogenous contrast. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	0
83	Dual echo bSSFP for real-time positive contrast of passive nitinol guidewires in MRI-guided cardiovascular interventions. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 079.	3.3	O
84	Accelerating spiral tissue phase velocity mapping without affecting peak velocity measurements. Journal of Cardiovascular Magnetic Resonance, 2014, 16, W31.	3.3	0
85	The Frank-Starling relationship of the heart revealed in a large animal study utilizing real-time undersampled radial MRI at variable inotropic state and heart rate. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P57.	3.3	0
86	Percutaneous MR guided direct left atrial access to deliver large interventional devices. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O19.	3.3	0
87	Spiral imaging with off-resonance reconstruction for MRI-guided cardiovascular catheterizations using commercial off-the-shelf nitinol guidewires. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P216.	3.3	0
88	Techniques for T1, T2, and Extracellular Volume Mapping., 2019, , 15-26.e2.		0