

# Michael S Hansen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6265789/publications.pdf>

Version: 2024-02-01

88  
papers

4,772  
citations

109321

35  
h-index

95266

68  
g-index

88  
all docs

88  
docs citations

88  
times ranked

5044  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Opportunities in Interventional and Diagnostic Imaging by Using High-Performance Low-Field-Strength MRI. Radiology, 2019, 293, 384-393.	7.3	224
3	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
4	Techniques for T1, T2, and Extracellular Volume Mapping. , 2019, , 15-26.e2.		0
5	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
6	Cardiac and Respiratory Motion Correction for Simultaneous Cardiac PET/MR. Journal of Nuclear Medicine, 2017, 58, 846-852.	5.0	60
7	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
8	ISMRM Raw data format: A proposed standard for MRI raw datasets. Magnetic Resonance in Medicine, 2017, 77, 411-421.	3.0	59
9	Real-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
10	Magnetic Resonance Imaging-Guided Transcatheter Cavopulmonary Shunt. JACC: Cardiovascular Interventions, 2016, 9, 959-970.	2.9	23
11	Correcting T2* effects in the myocardial perfusion arterial input function avoids overestimation of myocardial blood flow. Journal of Cardiovascular Magnetic Resonance, 2016, 18, Q14.	3.3	2
12	Real-time inversion recovery for infarct visualization during MR-guided interventions. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P205.	3.3	1
13	Dark blood Late Gadolinium Enhancement improves conspicuity of ablation lesions. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P211.	3.3	8
14	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
15	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
16	Two RR myocardial perfusion acquisition achieves unbiased Myocardial Blood Flow (MBF) estimates. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W12.	3.3	2
17	Inline quantitative myocardial perfusion flow mapping. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W8.	3.3	1
18	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

#	ARTICLE	IF	CITATIONS
19	Free-breathing motion-corrected late-gadolinium-enhancement imaging improves image quality in children. <i>Pediatric Radiology</i> , 2016, 46, 983-990.	2.0	20
20	Myocardial perfusion cardiovascular magnetic resonance: optimized dual sequence and reconstruction for quantification. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 43.	3.3	185
21	Native T1 values identify myocardial changes and stratify disease severity in patients with Duchenne muscular dystrophy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 72.	3.3	51
22	Dark blood late enhancement imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 77.	3.3	64
23	CMR fluoroscopy right heart catheterization for cardiac output and pulmonary vascular resistance: results in 102 patients. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 54.	3.3	41
24	Radiation-free CMR diagnostic heart catheterization in children. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 65.	3.3	45
25	Fully quantitative cardiovascular magnetic resonance myocardial perfusion ready for clinical use: a comparison between cardiovascular magnetic resonance imaging and positron emission tomography. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 78.	3.3	110
26	Prospective comparison of novel dark blood late gadolinium enhancement with conventional bright blood imaging for the detection of scar. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 91.	3.3	36
27	Interventional-Cardiovascular MR: Role of the Interventional MR Technologist. <i>Radiologic Technology</i> , 2016, 87, 261-70.	0.1	8
28	Parallel transmit excitation at 1.5 T based on the minimization of a driving function for device heating. <i>Medical Physics</i> , 2015, 42, 359-371.	3.0	22
29	Characterization of myocardial T1-mapping bias caused by intramyocardial fat in inversion recovery and saturation recovery techniques. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 33.	3.3	80
30	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. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 37.	3.3	19
31	Positive contrast spiral imaging for visualization of commercial nitinol guidewires with reduced heating. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 114.	3.3	12
32	Image reconstruction: An overview for clinicians. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 573-585.	3.4	43
33	Noise propagation in region of interest measurements. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1300-1308.	3.0	8
34	Percutaneous MR guided direct left atrial access to deliver large interventional devices. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, O19.	3.3	0
35	Transcatheter bidirectional Glenn shunt guided by real-time MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, O23.	3.3	2
36	Realtime MR guided endomyocardial biopsy with an active visualization biptome. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, P235.	3.3	1

#	ARTICLE	IF	CITATIONS
37	Two channel passive visualization of a nitinol guidewire with iron markers. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P236.	3.3	1
38	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
39	Free-breathing T2* mapping using respiratory motion corrected averaging. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 3.	3.3	29
40	Myocardial T2* mapping: influence of noise on accuracy and precision. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 7.	3.3	35
41	Magnetic Resonance Sequences and Rapid Acquisition for MR-Guided Interventions. Magnetic Resonance Imaging Clinics of North America, 2015, 23, 669-679.	1.1	23
42	Optimized protocols for cardiac magnetic resonance imaging in patients with thoracic metallic implants. Pediatric Radiology, 2015, 45, 1455-1464.	2.0	18
43	Image Fusion Guided Device Closure of Left Ventricle to Right Atrium Shunt. Circulation, 2015, 132, 1366-1367.	1.6	6
44	Distributed MRI reconstruction using gadgetron-based cloud computing. Magnetic Resonance in Medicine, 2015, 73, 1015-1025.	3.0	50
45	Dual echo positive contrast bSSFP for real-time visualization of passive devices during magnetic resonance guided cardiovascular catheterization. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 88.	3.3	17
46	Spiral tissue phase velocity mapping in a breath-hold with non-Cartesian SENSE. Magnetic Resonance in Medicine, 2014, 72, 659-668.	3.0	18
47	Method for calculating confidence intervals for phase contrast flow measurements. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 46.	3.3	4
48	T1-mapping in the heart: accuracy and precision. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 2.	3.3	551
49	Breath-hold spiral tissue phase velocity mapping (TPVM) with non-Cartesian SENSE. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P40.	3.3	1
50	Dual echo bSSFP for real-time positive contrast of passive nitinol guidewires in MRI-guided cardiovascular interventions. Journal of Cardiovascular Magnetic Resonance, 2014, 16, O79.	3.3	0
51	Accelerating spiral tissue phase velocity mapping without affecting peak velocity measurements. Journal of Cardiovascular Magnetic Resonance, 2014, 16, W31.	3.3	0
52	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
53	Interactive black blood preparation for interventional cardiovascular MRI. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P32.	3.3	7
54	Real-Time Magnetic Resonance Imaging Technique for Determining Left Ventricle Pressure-Volume Loops. Annals of Thoracic Surgery, 2014, 97, 1597-1603.	1.3	18

#	ARTICLE	IF	CITATIONS
55	Adiabatic inversion pulses for myocardial T1 mapping. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1428-1434.	3.0	119
56	Gadgetron: An open source framework for medical image reconstruction. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1768-1776.	3.0	237
57	Real-time cardiovascular magnetic resonance subxiphoid pericardial access and pericardiocentesis using off-the-shelf devices in swine. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 61.	3.3	22
58	Influence of Off-resonance in myocardial T1-mapping using SSFP based MOLLI method. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 63.	3.3	85
59	High spatial and temporal resolution retrospective cine cardiovascular magnetic resonance from shortened free breathing real-time acquisitions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 102.	3.3	75
60	Real-time MRI-guided right heart catheterization in adults using passive catheters. <i>European Heart Journal</i> , 2013, 34, 380-389.	2.2	88
61	Transthoracic delivery of large devices into the left ventricle through the right ventricle and interventricular septum: preclinical feasibility. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 10.	3.3	20
62	Virtual dye angiography: Flow visualization for MRI-guided interventions. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1013-1021.	3.0	9
63	Retrospective reconstruction of high temporal resolution cine images from real-time MRI using iterative motion correction. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 741-750.	3.0	78
64	Direct Percutaneous Left Ventricular Access and Port Closure. <i>JACC: Cardiovascular Interventions</i> , 2011, 4, 1318-1325.	2.9	21
65	Closed-Chest Transthoracic Magnetic Resonance Imaging-Guided Ventricular Septal Defect Closure in Swine. <i>JACC: Cardiovascular Interventions</i> , 2011, 4, 1326-1334.	2.9	25
66	Virtual Dye Angiography: flow visualization for MRI-guided interventions using endogenous contrast. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, .	3.3	0
67	Rapid Flow Assessment of Congenital Heart Disease with High-Spatiotemporal-Resolution Gated Spiral Phase-Contrast MR Imaging. <i>Radiology</i> , 2011, 260, 79-87.	7.3	49
68	Equilibrium contrast CMR for the measurement of diffuse myocardial fibrosis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010, 12, .	3.3	0
69	Equilibrium Contrast Cardiovascular Magnetic Resonance for the Measurement of Diffuse Myocardial Fibrosis. <i>Circulation</i> , 2010, 122, 138-144.	1.6	793
70	Improvement in left ventricular filling properties after relief of right ventricle to pulmonary artery conduit obstruction: contribution of septal motion and interventricular mechanical delay. <i>European Heart Journal</i> , 2009, 30, 2266-2274.	2.2	95
71	Real-Time Reconstruction of Sensitivity Encoded Radial Magnetic Resonance Imaging Using a Graphics Processing Unit. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 1974-1985.	8.9	55
72	Feasibility and reproducibility of biventricular volumetric assessment of cardiac function during exercise using real-time radial k-t SENSE magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 1062-1070.	3.4	56

#	ARTICLE	IF	CITATIONS
73	Whole-heart imaging using undersampled radial phase encoding (RPE) and iterative sensitivity encoding (SENSE) reconstruction. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1331-1337.	3.0	25
74	Self-navigated ideal water-fat separation with variable k-space averaging. , 2009, , .		0
75	Cartesian SENSE and <i>k</i> -t SENSE reconstruction using commodity graphics hardware. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 463-468.	3.0	76
76	Accelerating the Nonequispaced Fast Fourier Transform on Commodity Graphics Hardware. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 538-547.	8.9	91
77	Real-time Assessment of Right and Left Ventricular Volumes and Function in Patients with Congenital Heart Disease by Using High Spatiotemporal Resolution Radial <i>k</i> -t SENSE. <i>Radiology</i> , 2008, 248, 782-791.	7.3	81
78	Determination of Peak Velocity in Stenotic Areas: Echocardiography versus <i>k</i> -t SENSE Accelerated MR Fourier Velocity Encoding. <i>Radiology</i> , 2008, 246, 249-257.	7.3	22
79	Whole-heart cine MRI using real-time respiratory self-gating. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 606-613.	3.0	120
80	<i>k</i> -t BLAST reconstruction from non-Cartesian <i>k</i> -t space sampling. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 85-91.	3.0	44
81	Accelerated parallel imaging by transform coding data compression with <i>k</i> -t SENSE. , 2006, 2006, 372.		4
82	Lipid content in the musculature of the lower leg: Evaluation with high-resolution spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 152-158.	3.0	18
83	Accelerating cine phase-contrast flow measurements using <i>k</i> -t BLAST and <i>k</i> -t SENSE. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1430-1438.	3.0	127
84	Accelerated dynamic Fourier velocity encoding by exploiting velocity-spatio-temporal correlations. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004, 17, 86-94.	2.0	31
85	Wall shear rates differ between the normal carotid, femoral, and brachial arteries: An in vivo MRI study. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 19, 188-193.	3.4	116
86	On the influence of training data quality in <i>k</i> -t BLAST reconstruction. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1175-1183.	3.0	61
87	Wireless access to a pharmaceutical database: A demonstrator for data driven Wireless Application Protocol applications in medical information processing. <i>Journal of Medical Internet Research</i> , 2001, 3, e4.	4.3	11
88	Going virtual with quicktime VR: New methods and standardized tools for interactive dynamic visualization of anatomical structures. <i>The Anatomical Record</i> , 2000, 261, 64-77.	1.8	67