Erik HedstrÃ¶m

List of Publications by Year
in descending order

58 papers	1,713 citations	394421 19 h-index	289244 40 g-index
60 all docs	60 docs citations	60 times ranked	2233 citing authors

#	Article	IF	Citations
1	Quantification of Absolute Myocardial Perfusion in Patients With Coronary Artery Disease. Journal of the American College of Cardiology, 2012, 60, 1546-1555.	2.8	206
2	Myocardium at Risk After Acute Infarction in Humans on Cardiac Magnetic Resonance. JACC: Cardiovascular Imaging, 2009, 2, 569-576.	5.3	184
3	Age and gender specific normal values of left ventricular mass, volume and function for gradient echo magnetic resonance imaging: a cross sectional study. BMC Medical Imaging, 2009, 9, 2.	2.7	169
4	Rapid Initial Reduction of Hyperenhanced Myocardium After Reperfused First Myocardial Infarction Suggests Recovery of the Peri-Infarction Zone. Circulation: Cardiovascular Imaging, 2009, 2, 47-55.	2.6	113
5	Infarct evolution in man studied in patients with first-time coronary occlusion in comparison to different species - implications for assessment of myocardial salvage. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 38.	3.3	95
6	Semi-automatic quantification of myocardial infarction from delayed contrast enhanced magnetic resonance imaging. Scandinavian Cardiovascular Journal, 2005, 39, 267-275.	1.2	86
7	Dynamic fetal cardiovascular magnetic resonance imaging using Doppler ultrasound gating. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 17.	3.3	55
8	Size and transmural extent of first-time reperfused myocardial infarction assessed by cardiac magnetic resonance can be estimated by 12-lead electrocardiogram. American Heart Journal, 2005, 150, 920.e1-920.e9.	2.7	49
9	Measurements of wound edge microvascular blood flow during negative pressure wound therapy using thermodiffusion and transcutaneous and invasive laser <scp>D</scp>oppler velocimetry. Wound Repair and Regeneration, 2011, 19, 727-733.	3.0	46
10	Self-gated fetal cardiac MRI with tiny golden angle iGRASP: A feasibility study. Journal of Magnetic Resonance Imaging, 2017, 46, 207-217.	3.4	45
11	Cardiovascular magnetic resonance of the myocardium at risk in acute reperfused myocardial infarction: comparison of T2-weighted imaging versus the circumferential endocardial extent of late gadolinium enhancement with transmural projection. Journal of Cardiovascular Magnetic Resonance, 2010, 12, 18.	3.3	42
12	Peak CKMB and cTnT accurately estimates myocardial infarct size after reperfusion. Scandinavian Cardiovascular Journal, 2007, 41, 44-50.	1.2	41
13	Left ventricular mass by 12-lead electrocardiogram in healthy subjects: comparison to cardiac magnetic resonance imaging. Journal of Electrocardiology, 2006, 39, 67-72.	0.9	33
14	Validation and Development of a New Automatic Algorithm for Time-Resolved Segmentation of the Left Ventricle in Magnetic Resonance Imaging. BioMed Research International, 2015, 2015, 1-12.	1.9	33
15	The influence of different sizes and types of wound fillers on wound contraction and tissue pressure during negative pressure wound therapy. International Wound Journal, 2011, 8, 336-342.	2.9	30
16	Utility of Fetal Cardiovascular Magnetic Resonance for Prenatal Diagnosis of Complex Congenital Heart Defects. JAMA Network Open, 2021, 4, e213538.	5.9	28
17	Determination of the left ventricular long-axis orientation from a single short-axis MR image: relation to BMI and age. Clinical Physiology and Functional Imaging, 2004, 24, 310-315.	1.2	26
18	Freeâ€breathing fetal cardiac MRI with doppler ultrasound gating, compressed sensing, and motion compensation. Journal of Magnetic Resonance Imaging, 2020, 51, 260-272.	3.4	25

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19	Altered biventricular hemodynamic forces in patients with repaired tetralogy of Fallot and right ventricular volume overload because of pulmonary regurgitation. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H1691-H1702.	3.2	24
20	The endocardial extent of reperfused first-time myocardial infarction is more predictive of pathologic Q waves than is infarct transmurality: a magnetic resonance imaging study. Clinical Physiology and Functional Imaging, 2007, 27, 101-108.	1.2	23
21	Physiological determinants of the variation in left ventricular mass from early adolescence to late adulthood in healthy subjects. Clinical Physiology and Functional Imaging, 2007, 27, 254-262.	1.2	20
22	Alpha-1 microglobulin as a potential therapeutic candidate for treatment of hypertension and oxidative stress in the STOX1 preeclampsia mouse model. Scientific Reports, 2019, 9, 8561.	3.3	19
23	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.	3.3	19
24	The Dipolar ElectroCARdioTOpographic (DECARTO)â€“like method for graphic presentation of location and extent of area at risk estimated from ST-segment deviations in patients with acute myocardial infarction. Journal of Electrocardiology, 2009, 42, 172-180.	0.9	18
25	Myocardial SPECT perfusion defect size compared to infarct size by delayed gadolinium-enhanced magnetic resonance imaging in patients with acute or chronic infarction. Clinical Physiology and Functional Imaging, 2004, 24, 380-386.	1.2	16
26	Spline-Based Cardiac Motion Tracking Using Velocity-Encoded Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2008, 27, 1045-1053.	8.9	16
27	The evaluation of an electrocardiographic myocardial ischemia acuteness score to predict the amount of myocardial salvage achieved by early percutaneous coronary intervention. Journal of Electrocardiology, 2011, 44, 525-532.	0.9	16
28	Physiological determinants of the variation in left ventricular mass from early adolescence to late adulthood in healthy subjects. Clinical Physiology and Functional Imaging, 2005, 25, 332-339.	1.2	15
29	Required temporal resolution for accurate thoracic aortic pulse wave velocity measurements by phase-contrast magnetic resonance imaging and comparison with clinical standard applanation tonometry. BMC Cardiovascular Disorders, 2016, 16, 110.	1.7	15
30	Longitudinal shortening remains the principal component of left ventricular pumping in patients with chronic myocardial infarction even when the absolute atrioventricular plane displacement is decreased. BMC Cardiovascular Disorders, 2017, 17, 208.	1.7	15
31	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.	1.2	15
32	Consideration of the Impact of Reperfusion Therapy on the Quantitative Relationship between the Selvester QRS Score and Infarct Size by Cardiac MRI. Annals of Noninvasive Electrocardiology, 2010, 15, 238-244.	1.1	14
33	Location of myocardium at risk in patients with first-time ST-elevation infarction: comparison among single photon emission computed tomography, magnetic resonance imaging, and electrocardiography. Journal of Electrocardiology, 2009, 42, 198-203.	0.9	13
34	Validation of T1 and T2 algorithms for quantitative MRI: performance by a vendor-independent software. BMC Medical Imaging, 2016, 16, 46.	2.7	12
35	A method for assembling a collaborative research team from multiple disciplines and academic centers to study the relationships between ECG estimation and MRI measurement of myocardial infarct size. Journal of Electrocardiology, 2001, 34, 1-6.	0.9	11
36	Independent validation of metric optimized gating for fetal cardiovascular phaseâ€contrast flow imaging. Magnetic Resonance in Medicine, 2019, 81, 495-503.	3.0	11

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37	Superâ€Resolution Cine Image Enhancement for Fetal Cardiac Magnetic Resonance Imaging. Journal of Magnetic Resonance Imaging, 2022, 56, 223-231.	3.4	10
38	Importance of perfusion in myocardial viability studies using delayed contrast-enhanced magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2006, 24, 77-83.	3.4	9
39	An automatic method for quantification of myocardium at risk from myocardial perfusion SPECT in patients with acute coronary occlusion. Journal of Nuclear Cardiology, 2010, 17, 831-840.	2.1	9
40	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.	3.0	9
41	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.	1.2	9
42	Effects of gadolinium contrast agent on aortic blood flow and myocardial strain measurements by phase-contrast cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2010, 12, 70.	3.3	8
43	Cardiovascular effects of severe late-onset preeclampsia are reversed within six months postpartum. Pregnancy Hypertension, 2020, 19, 18-24.	1.4	8
44	Infarct transmurality and adjacent segmental function as determinants of wall thickening in revascularized chronic ischemic heart disease. Clinical Physiology and Functional Imaging, 2005, 25, 209-214.	1.2	6
45	Changes in left and right ventricular longitudinal function after pulmonary valve replacement in patients with Tetralogy of Fallot. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H345-H353.	3.2	6
46	The effect of initial teaching on evaluation of left ventricular volumes by cardiovascular magnetic resonance imaging: comparison between complete and intermediate beginners and experienced observers. BMC Medical Imaging, 2017, 17, 33.	2.7	5
47	Atrioventricular plane displacement versus mitral and tricuspid annular plane systolic excursion: A comparison between cardiac magnetic resonance and Mâ€mode echocardiography. Clinical Physiology and Functional Imaging, 2021, 41, 262-270.	1.2	5
48	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.	2.1	4
49	Automatic T2* determination for quantification of iron load in heart and liver: a comparison between automatic inline Maximum Likelihood Estimate and the truncation and offset methods. Clinical Physiology and Functional Imaging, 2017, 37, 299-304.	1.2	4
50	Risk assessment in PAH using quantitative CMR tricuspid regurgitation: relation to heart catheterization. ESC Heart Failure, 2020, 7, 1653-1663.	3.1	4
51	Comparison of 2D and 4D Flow MRI in Neonates Without General Anesthesia. Journal of Magnetic Resonance Imaging, 2023, 57, 71-82.	3.4	4
52	Noncompaction of the Myocardium. Journal of the American College of Cardiology, 2011, 58, e25.	2.8	3
53	Ruptured Aneurysm of the Sinus of Valsalva. Journal of the American College of Cardiology, 2012, 59, 538.	2.8	3
54	Pulse Wave Velocity Measurements by Magnetic Resonance Imaging in Neonates and Adolescents: Methodological Aspects and Their Clinical Implications. Pediatric Cardiology, 2022, , 1.	1.3	3

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55	Diagnostic performance of the Selvester QRS scoring system in relation to clinical ECG assessment of patients with lateral myocardial infarction using cardiac magnetic resonance as reference standard. Journal of Electrocardiology, 2015, 48, 750-757.	0.9	2
56	A new validated T2* analysis method with certainty estimates for cardiac and liver iron load determination. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P52.	3.3	2
57	Hydraulic force is a novel mechanism of diastolic function that may contribute to decreased diastolic filling in HFpEF and facilitate filling in HFrEF. Journal of Applied Physiology, 2021, 130, 993-1000.	2.5	2
58	Biochemical markers of inflammatory response and their relation to myocardial injury. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	0