

Frank Em Rademakers

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

10,576
citations

66343

42
h-index

39675

94
g-index

112
all docs

112
docs citations

112
times ranked

10060
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiac troponin T and NT-proBNP for detecting myocardial ischemia in suspected chronic coronary syndrome. <i>International Journal of Cardiology</i> , 2022, , .	1.7	1
2	On the use of partitioning for scheduling of surgeries in the inpatient surgical department. <i>Health Care Management Science</i> , 2022, 25, 526-550.	2.6	2
3	The Left Ventricular Pressure-Volume Area and Stroke Work in Porcine Model of Ascending Compared to Descending Thoracic Aorta Stenosis Creating a Chronic Early Vs. Late Left Ventricular Afterload Increase. <i>Prilozi - Makedonska Akademija Na Naukite I Umetnostite Oddelenie Za Medicinski Nauki</i> , 2022, 43, 111-121.	0.5	0
4	Operating room planning and scheduling for outpatients and inpatients: A review and future research. <i>Operations Research for Health Care</i> , 2021, 31, 100323.	1.2	9
5	Translating Data From an Electronic Prescribing and Medicines Administration System Into Knowledge. <i>Medical Care</i> , 2020, 58, 83-89.	2.4	4
6	Experimental validation of the prestretch-strain relationship as a non-invasive index of left ventricular myocardial contractility. <i>PLoS ONE</i> , 2020, 15, e0228027.	2.5	0
7	Standardised mortality ratios as a user-friendly performance metric and trigger for quality improvement in a Flemish hospital network: multicentre retrospective study. <i>BMJ Open</i> , 2019, 9, e029857.	1.9	7
8	Is Global Longitudinal Strain a Superior Parameter for Predicting Outcome After Myocardial Infarction?. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1458-1460.	5.3	7
9	Definition of Left Ventricular Segments for Cardiac Magnetic Resonance Imaging. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 926-928.	5.3	23
10	Serial assessment of left ventricular morphology and function in a rodent model of ischemic cardiomyopathy. <i>International Journal of Cardiovascular Imaging</i> , 2018, 34, 385-397.	1.5	5
11	Cardiac Troponin T Concentrations, Reversible Myocardial Ischemia, and Indices of Left Ventricular Remodeling in Patients with Suspected Stable Angina Pectoris: a DOPPLER-CIP Substudy. <i>Clinical Chemistry</i> , 2018, 64, 1370-1379.	3.2	15
12	Due time driven surgery scheduling. <i>Health Care Management Science</i> , 2017, 20, 326-352.	2.6	15
13	Regional Myocardial Contractility. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	2.6	0
14	Non-invasive measurement of volumeâ€“time curves in patients with mitral regurgitation and in healthy volunteers, using a new operator-independent screening tool. <i>Physiological Measurement</i> , 2017, 38, 241-258.	2.1	3
15	Exercise physiology with a left ventricular assist device: Analysis of heart-pump interaction with a computational simulator. <i>PLoS ONE</i> , 2017, 12, e0181879.	2.5	17
16	Scheduling Operating Rooms: Achievements, Challenges and Pitfalls. <i>SSRN Electronic Journal</i> , 2016, , .	0.4	1
17	Cardiovascular magnetic resonance in rheumatology: Current status and recommendations for use. <i>International Journal of Cardiology</i> , 2016, 217, 135-148.	1.7	114
18	Scheduling operating rooms: achievements, challenges and pitfalls. <i>Journal of Scheduling</i> , 2016, 19, 493-525.	1.9	154

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19	A Remedy for the Achillesâ€™ Heel of Echocardiography?. JACC: Cardiovascular Imaging, 2016, 9, 1031-1033.	5.3	0
20	Due Time Driven Surgery Scheduling. SSRN Electronic Journal, 2015, , .	0.4	3
21	Imaging Hemodynamics. JACC: Cardiovascular Imaging, 2014, 7, 927-929.	5.3	1
22	Consistent Regional Heterogeneity of Passive Diastolic Stretch and Systolic Deformation in the Healthy Heart: Age-Related Changes in Left Ventricle Contractility. Ultrasound in Medicine and Biology, 2014, 40, 37-44.	1.5	5
23	Imaging in population science: cardiovascular magnetic resonance in 100,000 participants of UK Biobank - rationale, challenges and approaches. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 46.	3.3	188
24	The use of imaging for electrophysiological and devices procedures: a report from the first European Heart Rhythm Association Policy Conference, jointly organized with the European Association of Cardiovascular Imaging (EACVI), the Council of Cardiovascular Imaging and the European Society of Cardiac Radiology. Europace, 2013, 15, 927-936.	1.7	38
25	The Slope of the Segmental Stretch-Strain Relationship as a Noninvasive Index of LV Inotropy. JACC: Cardiovascular Imaging, 2013, 6, 419-428.	5.3	14
26	Clinical Need for Evaluation of Ischemia. Revista Espanola De Cardiologia (English Ed), 2013, 66, 161-162.	0.6	2
27	Determining optimal noninvasive parameters for the prediction of left ventricular remodeling in chronic ischemic patients. Scandinavian Cardiovascular Journal, 2013, 47, 329-334.	1.2	22
28	Morphological and Functional Adaptation of the Maternal Heart During Pregnancy. Circulation: Cardiovascular Imaging, 2012, 5, 289-297.	2.6	219
29	Reallocation of Operating Room Capacity Using the Due-time Model. Medical Care, 2012, 50, 779-784.	2.4	14
30	A new electric method for non-invasive continuous monitoring of stroke volume and ventricular volume-time curves. BioMedical Engineering OnLine, 2012, 11, 51.	2.7	8
31	Left-Ventricular Function Quantitative Parameters and Their Relationship to Acute Loading Variation: From Physiology to Clinical Practice. Current Cardiovascular Imaging Reports, 2012, 5, 83-91.	0.6	0
32	Clinical Validation of a Novel Speckle-Trackingâ€‘Based Ejection Fraction Assessment Method. Journal of the American Society of Echocardiography, 2011, 24, 1092-1100.	2.8	38
33	In-vivo validation of a new non-invasive continuous ventricular stroke volume monitoring system in an animal model. Critical Care, 2011, 15, R165.	5.8	4
34	Training and accreditation in cardiovascular magnetic resonance in Europe: a position statement of the working group on cardiovascular magnetic resonance of the European Society of Cardiology. European Heart Journal, 2011, 32, 793-798.	2.2	46
35	Non-invasive characterization of the area-at-risk using magnetic resonance imaging in chronic ischaemia. Cardiovascular Research, 2011, 89, 166-174.	3.8	16
36	Left-ventricular shape determines intramyocardial mechanical heterogeneity. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H2351-H2361.	3.2	29

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37	Left-Ventricular Shape Determines Intramyocardial Stroke Work Distribution. Lecture Notes in Computer Science, 2011, , 401-408.	1.3	0
38	3D motion and strain estimation of the heart: initial clinical findings. Proceedings of SPIE, 2010, , .	0.8	2
39	Right ventricular function by MRI. Current Opinion in Cardiology, 2010, 25, 451-455.	1.8	31
40	Closed-chest animal model of chronic coronary artery stenosis. Assessment with magnetic resonance imaging. International Journal of Cardiovascular Imaging, 2010, 26, 299-308.	1.5	10
41	Left ventricular flow patterns in healthy subjects and patients with prosthetic mitral valves: An in vivo study using echocardiographic particle image velocimetry. Journal of Thoracic and Cardiovascular Surgery, 2010, 139, 1501-1510.	0.8	229
42	Distribution of active fiber stress at the beginning of ejection depends on left-ventricular shape. , 2010, 2010, 2638-41.		1
43	Assessment of apical rocking: a new, integrative approach for selection of candidates for cardiac resynchronization therapy. European Journal of Echocardiography, 2010, 11, 863-869.	2.3	74
44	Pexelizumab and Infarct Size in Patients With Acute Myocardial Infarction Undergoing Primary Percutaneous Coronary Intervention. JACC: Cardiovascular Imaging, 2010, 3, 52-60.	5.3	37
45	Constrictive Pericarditis and Restrictive Cardiomyopathy. , 2010, , 501-519.		0
46	Identifying needs and opportunities for advancing translational research in cardiovascular disease. Cardiovascular Research, 2009, 83, 425-435.	3.8	28
47	Impact of myocardial haemorrhage on left ventricular function and remodelling in patients with reperfused acute myocardial infarction. European Heart Journal, 2009, 30, 1440-1449.	2.2	259
48	Determination of Regional Ejection Fraction in Patients with Myocardial Infarction by Using Merged Late Gadolinium Enhancement and Cine MR: Feasibility Study. Radiology, 2009, 250, 50-60.	7.3	27
49	The quantification of dipyridamole induced changes in regional deformation in normal, stunned or infarcted myocardium as measured by strain and strain rate: an experimental study. International Journal of Cardiovascular Imaging, 2008, 24, 365-376.	1.5	11
50	A pilot study to investigate the feasibility and cardiac effects of pegylated liposomal doxorubicin (PL-DOX) as adjuvant therapy in medically fit elderly breast cancer patients. Critical Reviews in Oncology/Hematology, 2008, 67, 133-138.	4.4	17
51	Detection of Regional Myocardial Dysfunction in Patients with Acute Myocardial Infarction Using Velocity Vector Imaging. Journal of the American Society of Echocardiography, 2008, 21, 879-886.	2.8	58
52	Strain Rate Imaging Detects Early Cardiac Effects of Pegylated Liposomal Doxorubicin as Adjuvant Therapy in Elderly Patients with Breast Cancer. Journal of the American Society of Echocardiography, 2008, 21, 1283-1289.	2.8	165
53	Remodeling of T-Tubules and Reduced Synchrony of Ca ²⁺ Release in Myocytes From Chronically Ischemic Myocardium. Circulation Research, 2008, 102, 338-346.	4.5	208
54	Improved regional function after autologous bone marrow-derived stem cell transfer in patients with acute myocardial infarction: a randomized, double-blind strain rate imaging study. European Heart Journal, 2008, 30, 662-670.	2.2	92

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55	Apical transverse motion as surrogate parameter to determine regional left ventricular function inhomogeneities: a new, integrative approach to left ventricular asynchrony assessment. <i>European Heart Journal</i> , 2008, 30, 959-968.	2.2	77
56	On the calculation of principle curvatures of the left-ventricular surfaces. , 2008, 2008, 961-4.		8
57	Different Approaches to the Choice of Coordinate System for Left-Ventricular FE-Mesh Generation. , 2008, , .		1
58	Full or pressure limited reperfusion of an acute myocardial infarct results in a different wall thickness and deformation of the distal myocardium " Implications for clinical reperfusion strategies. <i>European Journal of Echocardiography</i> , 2007, 9, 458-65.	2.3	5
59	Fetal Caudal Dysgenesis after Maternal Cardiopulmonary Bypass in Pregnancy. <i>Ultrasound</i> , 2007, 15, 71-72.	0.7	1
60	How to diagnose diastolic heart failure: a consensus statement on the diagnosis of heart failure with normal left ventricular ejection fraction by the Heart Failure and Echocardiography Associations of the European Society of Cardiology. <i>European Heart Journal</i> , 2007, 28, 2539-2550.	2.2	2,302
61	Regional Right Ventricular Dysfunction in Chronic Pulmonary Hypertension. <i>Journal of the American Society of Echocardiography</i> , 2007, 20, 1172-1180.	2.8	117
62	Determinants and impact of microvascular obstruction in successfully reperfused ST-segment elevation myocardial infarction. Assessment by magnetic resonance imaging. <i>European Radiology</i> , 2007, 17, 2572-2580.	4.5	117
63	Autologous bone marrow-derived stem-cell transfer in patients with ST-segment elevation myocardial infarction: double-blind, randomised controlled trial. <i>Lancet, The</i> , 2006, 367, 113-121.	13.7	1,225
64	Experimental assessment of a new research tool for the estimation of two-dimensional myocardial strain. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1509-1513.	1.5	75
65	Assessment of ventricular coupling with real-time cine MRI and its value to differentiate constrictive pericarditis from restrictive cardiomyopathy. <i>European Radiology</i> , 2006, 16, 944-951.	4.5	171
66	Cardiac Dysfunction in Heart Failure with Normal Ejection Fraction: MRI measurements. <i>Progress in Cardiovascular Diseases</i> , 2006, 49, 215-227.	3.1	18
67	Comparison of real-time tri-plane and conventional 2D dobutamine stress echocardiography for the assessment of coronary artery disease. <i>European Heart Journal</i> , 2006, 27, 1719-1724.	2.2	45
68	Determination of interobserver variability for identifying inducible left ventricular wall motion abnormalities during dobutamine stress magnetic resonance imaging. <i>European Heart Journal</i> , 2006, 27, 1459-1464.	2.2	92
69	3D Echocardiography: Is CMR better?. <i>European Journal of Echocardiography</i> , 2006, 7, 339-340.	2.3	4
70	Longitudinal but not circumferential deformation reflects global contractile function in the right ventricle with open pericardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H2369-H2375.	3.2	73
71	Cardiac Magnetic Resonance. , 2006, , 37-55.		0
72	The Evaluation of Pulmonary Hypertension Using Right Ventricular Myocardial Isovolumic Relaxation Time. <i>Journal of the American Society of Echocardiography</i> , 2005, 18, 1113-1120.	2.8	42

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73	Determinants of the effects of physical training and of the complications requiring resuscitation during exercise in patients with cardiovascular disease. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2004, 11, 304-312.	2.8	66
74	Clinical Indications for Cardiovascular Magnetic Resonance (CMR): Consensus Panel Report #. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2004, 6, 727-765.	3.3	200
75	Clinical indications for cardiovascular magnetic resonance (CMR): Consensus Panel report?. <i>European Heart Journal</i> , 2004, 25, 1940-1965.	2.2	649
76	Left ventricular myocardial tagging. , 2004, , 85-97.		0
77	Evolution of regional performance after an acute anterior myocardial infarction in humans using magnetic resonance tagging. <i>Journal of Physiology</i> , 2003, 546, 777-787.	2.9	41
78	Can regional strain and strain rate measurement be performed during both dobutamine and exercise echocardiography, and do regional deformation responses differ with different forms of stress testing?. <i>Journal of the American Society of Echocardiography</i> , 2003, 16, 299-308.	2.8	51
79	Magnetic resonance imaging in cardiology. <i>Lancet, The</i> , 2003, 361, 359-360.	13.7	23
80	Clinically Suspected Constrictive Pericarditis: MR Imaging Assessment of Ventricular Septal Motion and Configuration in Patients and Healthy Subjects. <i>Radiology</i> , 2003, 228, 417-424.	7.3	124
81	Coronary Artery Imaging with Real-time Navigator Three-dimensional Turbo-Field-Echo MR Coronary Angiography: Initial Experience. <i>Radiology</i> , 2003, 226, 707-716.	7.3	81
82	Absent right and persistent left superior vena cava. <i>Acta Cardiologica</i> , 2003, 58, 421-423.	0.9	15
83	Single Coronary Artery as Cause of Acute Myocardial Infarction in a 12-Year-Old Girl: A Comprehensive Approach with MR Imaging. <i>American Journal of Roentgenology</i> , 2002, 179, 1535-1537.	2.2	13
84	Visualization of Ventricular Thrombi With Contrast-Enhanced Magnetic Resonance Imaging in Patients With Ischemic Heart Disease. <i>Circulation</i> , 2002, 106, 2873-2876.	1.6	287
85	Myocardial function defined by strain rate and strain during alterations in inotropic states and heart rate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H792-H799.	3.2	353
86	Value of T2-Weighted Magnetic Resonance Imaging Early After Myocardial Infarction in Dogs. <i>Investigative Radiology</i> , 2002, 37, 77-85.	6.2	54
87	Quantification of regional left and right ventricular radial and longitudinal function in healthy children using ultrasound-based Strain Rate and Strain Imaging. <i>Journal of the American Society of Echocardiography</i> , 2002, 15, 20-28.	2.8	202
88	A massive left-to-right shunt due to a ruptured giant aneurysm of the sinus of Valsalva. <i>Acta Cardiologica</i> , 2002, 57, 449-451.	0.9	2
89	Quantification of the spectrum of changes in regional myocardial function during acute ischemia in closed chest pigs: An ultrasonic strain rate and strain study. <i>Journal of the American Society of Echocardiography</i> , 2001, 14, 874-884.	2.8	129
90	Changes in systolic and postsystolic wall thickening during acute coronary occlusion and reperfusion in closed-chest pigs: Implications for the assessment of regional myocardial function. <i>Journal of the American Society of Echocardiography</i> , 2001, 14, 691-697.	2.8	43

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91	Regional nonuniformity of normal adult human left ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H610-H620.	3.2	333
92	Can natural strain and strain rate quantify regional myocardial deformation? A study in healthy subjects. Ultrasound in Medicine and Biology, 2001, 27, 1087-1097.	1.5	247
93	Post-Systolic Thickening in Ischaemic Myocardium: A Simple Mathematical Model for Simulating Regional Deformation. Lecture Notes in Computer Science, 2001, , 134-139.	1.3	17
94	Remote myocardial dysfunction after acute anterior myocardial infarction: impact of left ventricular shape on regional function. Journal of the American College of Cardiology, 2000, 35, 1525-1534.	2.8	163
95	Functional Recovery of Subepicardial Myocardial Tissue in Transmural Myocardial Infarction After Successful Reperfusion. Circulation, 1999, 99, 36-43.	1.6	135
96	Diastolic Indexes During Dobutamine Stress Echocardiography in Patients Early After Myocardial Infarction. Journal of the American Society of Echocardiography, 1998, 11, 26-35.	2.8	11
97	Adenosine technetium-99m sestamibi single-photon emission tomography for the assessment of jeopardized myocardium early after acute myocardial infarction. European Journal of Nuclear Medicine and Molecular Imaging, 1997, 24, 1121-1127.	2.1	2
98	Left ventricular myocardial tagging. , 1997, 13, 233-245.		17
99	Noninvasive Measurement of Shortening in the Fiber and Cross-Fiber Directions in the Normal Human Left Ventricle and in Idiopathic Dilated Cardiomyopathy. Circulation, 1997, 96, 535-541.	1.6	179
100	Comparative study of rest technetium-99m sestamibi SPET and low-dose dobutamine stress echocardiography for the early assessment of myocardial viability after acute myocardial infarction: importance of the severity of the infarct-related stenosis. European Journal of Nuclear Medicine and Molecular Imaging, 1996, 23, 748-755.	2.1	11
101	Left ventricular radial tagging acquisition using gradient-recalled-echo techniques: sequence optimization. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1996, 4, 123-133.	2.0	8
102	Left ventricular quantification with breath-hold MR imaging: comparison with echocardiography. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1995, 3, 5-12.	2.0	77
103	Right atrial tumor arising on an atrial septal aneurysm assessment by MR imaging. Clinical Imaging, 1995, 19, 172-175.	1.5	8
104	Transverse arch hypoplasia predisposes to aneurysm formation at the repair site after patch angioplasty for coarctation of the aorta. Journal of the American College of Cardiology, 1995, 26, 521-527.	2.8	61
105	Rotational deformation of the canine left ventricle measured by magnetic resonance tagging: effects of catecholamines, ischaemia, and pacing. Cardiovascular Research, 1994, 28, 629-635.	3.8	145
106	Analysis of relaxation in the evaluation of ventricular function of the heart. Progress in Cardiovascular Diseases, 1985, 28, 143-163.	3.1	182
107	Myocarditis and Pericardial Disease. , 0, , 261-272.		0
108	Seeing, even quantified, is not always believing. European Heart Journal Cardiovascular Imaging, 0, , .	1.2	0