Jos J M Westenberg

List of Publications by Year
in descending order

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142 papers	4,608 citations	81900 39 h-index	123424 61 g-index
143 all docs	143 docs citations	143 times ranked	4725 citing authors

#	Article	IF	Citations
1	SPASM: A 3D-ASM for segmentation of sparse and arbitrarily oriented cardiac MRI data. Medical Image Analysis, 2006, 10, 286-303.	11.6	194
2	Validation and reproducibility of aortic pulse wave velocity as assessed with velocityâ€encoded MRI. Journal of Magnetic Resonance Imaging, 2009, 30, 521-526.	3.4	181
3	Mitral Valve and Tricuspid Valve Blood Flow: Accurate Quantification with 3D Velocity-encoded MR Imaging with Retrospective Valve Tracking. Radiology, 2008, 249, 792-800.	7.3	160
4	Quantification of Functional Mitral Regurgitation by Real-Time 3D Echocardiography. JACC: Cardiovascular Imaging, 2009, 2, 1245-1252.	5.3	158
5	Quantification of LV function and mass by cardiovascular magnetic resonance: multi-center variability and consensus contours. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 63.	3.3	135
6	Assessment of Left Ventricular Dyssynchrony in Patients With Conduction Delay and Idiopathic Dilated Cardiomyopathy. Journal of the American College of Cardiology, 2006, 47, 2042-2048.	2.8	128
7	Quantitative Assessment of Mitral Regurgitation. Circulation: Cardiovascular Imaging, 2010, 3, 694-700.	2.6	123
8	Flow Assessment Through Four Heart Valves Simultaneously Using 3-Dimensional 3-Directional Velocity-Encoded Magnetic Resonance Imaging With Retrospective Valve Tracking in Healthy Volunteers and Patients With Valvular Regurgitation. Investigative Radiology, 2009, 44, 669-675.	6.2	121
9	Vortex flow during early and late left ventricular filling in normal subjects: quantitative characterization using retrospectively-gated 4D flow cardiovascular magnetic resonance and three-dimensional vortex core analysis. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 78.	3.3	118
10	Magnetic resonance imaging and response to cardiac resynchronization therapy: relative merits of left ventricular dyssynchrony and scar tissue. European Heart Journal, 2009, 30, 2360-2367.	2.2	107
11	Assessment of mitral valve regurgitation by cardiovascular magnetic resonance imaging. Nature Reviews Cardiology, 2020, 17, 298-312.	13.7	103
12	Assessment of viscous energy loss and the association with threeâ€dimensional vortex ring formation in left ventricular inflow: In vivo evaluation using fourâ€dimensional flow MRI. Magnetic Resonance in Medicine, 2017, 77, 794-805.	3.0	92
13	Effect of liraglutide on cardiac function in patients with type 2 diabetes mellitus: randomized placebo-controlled trial. Cardiovascular Diabetology, 2019, 18, 55.	6.8	91
14	Magnetic Resonance Imaging of Cardiovascular Function and the Brain. Circulation, 2017, 135, 2178-2195.	1.6	90
15	Noninvasive Imaging in Cardiac Resynchronization Therapyâ€”Part 1: Selection of Patients. PACE - Pacing and Clinical Electrophysiology, 2008, 31, 1475-1499.	1.2	74
16	Energetics of Blood Flow in Cardiovascular Disease. Circulation, 2018, 137, 2393-2407.	1.6	65
17	MRI to Evaluate Left Atrial and Ventricular Reverse Remodeling After Restrictive Mitral Annuloplasty in Dilated Cardiomyopathy. Circulation, 2005, 112, I437-42.	1.6	64
18	Left ventricular blood flow kinetic energy after myocardial infarction - insights from 4D flow cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 61.	3.3	64

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19	Longitudinal and Circumferential Strain of the Proximal Aorta. Journal of the American Heart Association, 2014, 3, e001536.	3.7	62
20	Clinical applications of intra-cardiac four-dimensional flow cardiovascular magnetic resonance: A systematic review. International Journal of Cardiology, 2017, 249, 486-493.	1.7	62
21	CMR for Assessment of Diastolic Function. Current Cardiovascular Imaging Reports, 2011, 4, 149-158.	0.6	58
22	Left ventricular thrombus formation in myocardial infarction is associated with altered left ventricular blood flow energetics. European Heart Journal Cardiovascular Imaging, 2019, 20, 108-117.	1.2	57
23	Accuracy of Three-Dimensional Versus Two-Dimensional Echocardiography for Quantification of Aortic Regurgitation and Validation by Three-Dimensional Three-Directional Velocity-Encoded Magnetic Resonance Imaging. American Journal of Cardiology, 2013, 112, 560-566.	1.6	56
24	Bramwell-Hill modeling for local aortic pulse wave velocity estimation: a validation study with velocity-encoded cardiovascular magnetic resonance and invasive pressure assessment. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 15.	3.3	55
25	Association of Aortic Arch Pulse Wave Velocity with Left Ventricular Mass and Lacunar Brain Infarcts in Hypertensive Patients: Assessment with MR Imaging. Radiology, 2009, 253, 681-688.	7.3	52
26	Comparison of fast acquisition strategies in wholeâ€heart fourâ€dimensional flow cardiac MR: Twoâ€center, 1.5 Tesla, phantom and in vivo validation study. Journal of Magnetic Resonance Imaging, 2018, 47, 272-281.	3.4	52
27	Predictive imaging for thoracic aortic dissection and rupture: moving beyond diameters. European Radiology, 2019, 29, 6396-6404.	4.5	49
28	Tetralogy of Fallot: 3D Velocity-encoded MR Imaging for Evaluation of Right Ventricular Valve Flow and Diastolic Function in Patients after Correction. Radiology, 2010, 256, 724-734.	7.3	48
29	Left ventricular diastolic function assessment from threeâ€dimensional threeâ€directional velocityâ€encoded MRI with retrospective valve tracking. Journal of Magnetic Resonance Imaging, 2011, 33, 312-319.	3.4	48
30	Ageâ€related and regional changes of aortic stiffness in the marfan syndrome: Assessment with velocityâ€encoded MRI. Journal of Magnetic Resonance Imaging, 2011, 34, 526-531.	3.4	47
31	Initial results on in vivo human coronary MR angiography at 7 T. Magnetic Resonance in Medicine, 2009, 62, 1379-1384.	3.0	45
32	Cerebral Perfusion and Aortic Stiffness Are Independent Predictors of White Matter Brain Atrophy in Type 1 Diabetic Patients Assessed With Magnetic Resonance Imaging. Diabetes Care, 2011, 34, 459-463.	8.6	45
33	Aortic root dysfunctioning and its effect on left ventricular function in Ross procedure patients assessed with magnetic resonance imaging. American Heart Journal, 2006, 152, 975.e1-975.e8.	2.7	44
34	Improved aortic pulse wave velocity assessment from multislice twoâ€directional inâ€plane velocityâ€encoded magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2010, 32, 1086-1094.	3.4	44
35	Automated Cardiac Valve Tracking for Flow Quantification with Four-dimensional Flow MRI. Radiology, 2019, 290, 70-78.	7.3	43
36	Impact of Age and Diastolic Function on Novel, 4D flow CMR Biomarkers of Left Ventricular Blood Flow Kinetic Energy. Scientific Reports, 2018, 8, 14436.	3.3	42

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37	MRI-assessed regional pulse wave velocity for predicting absence of regional aorta luminal growth in marfan syndrome. International Journal of Cardiology, 2013, 167, 2977-2982.	1.7	41
38	Characterization and quantification of dynamic eccentric regurgitation of the left atrioventricular valve after atrioventricular septal defect correction with 4D Flow cardiovascular magnetic resonance and retrospective valve tracking. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 18.	3.3	41
39	Pulse Pressure Relation to Aortic and Left Ventricular Structure in the Age, Gene/Environment Susceptibility (AGES)-Reykjavik Study. Hypertension, 2014, 64, 756-761.	2.7	40
40	Nuclear Imaging in Cardiac Resynchronization Therapy. Journal of Nuclear Medicine, 2007, 48, 2001-2010.	5.0	39
41	Comparison Between Tissue Doppler Imaging and Velocity-Encoded Magnetic Resonance Imaging for Measurement of Myocardial Velocities, Assessment of Left Ventricular Dyssynchrony, and Estimation of Left Ventricular Filling Pressures in Patients With Ischemic Cardiomyopathy. American Journal of Cardiology, 2008, 102, 1366-1372.	1.6	39
42	Assessment of Aortic Pulse Wave Velocity and Cardiac Diastolic Function in Subjects With and Without the Metabolic Syndrome. Diabetes Care, 2008, 31, 1442-1444.	8.6	36
43	Intracardiac 4D Flow MRI in Congenital Heart Disease: Recommendations on Behalf of the ISMRM Flow & Motion Study Group. Journal of Magnetic Resonance Imaging, 2019, 50, spcone.	3.4	35
44	Quantitative assessment of left ventricular function in humans at 7 T. Magnetic Resonance in Medicine, 2010, 64, 1471-1477.	3.0	33
45	Characterization and improved quantification of left ventricular inflow using streamline visualization with 4DFlow MRI in healthy controls and patients after atrioventricular septal defect correction. Journal of Magnetic Resonance Imaging, 2015, 41, 1512-1520.	3.4	33
46	Inâ€scan and scanâ€“rescan assessment of LV inâ€and outflow volumes by 4D flow MRI versus 2D planimetry. Journal of Magnetic Resonance Imaging, 2018, 47, 511-522.	3.4	33
47	Three-Dimensional Echocardiography for the Preoperative Assessment of Patients With Left Ventricular Aneurysm. Annals of Thoracic Surgery, 2011, 91, 113-121.	1.3	32
48	Tricuspid flow and regurgitation in congenital heart disease and pulmonary hypertension: comparison of 4D flow cardiovascular magnetic resonance and echocardiography. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 5.	3.3	32
49	Intracardiac 4D Flow MRI in Congenital Heart Disease: Recommendations on Behalf of the ISMRM Flow & Motion Study Group. Journal of Magnetic Resonance Imaging, 2019, 50, 677-681.	3.4	32
50	Accurate quantitation of regurgitant volume with MRI in patients selected for mitral valve repair. European Journal of Cardio-thoracic Surgery, 2005, 27, 462-467.	1.4	31
51	Accurate and Reproducible Mitral Valvular Blood Flow Measurement with Three?Directional Velocity?Encoded Magnetic Resonance Imaging. Journal of Cardiovascular Magnetic Resonance, 2004, 6, 767-776.	3.3	30
52	Scanâ€“rescan reproducibility of segmental aortic wall shear stress as assessed by phase-specific segmentation with 4D flow MRI in healthy volunteers. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 653-663.	2.0	30
53	Clinical assessment of aortic valve stenosis: Comparison between 4D flow MRI and transthoracic echocardiography. Journal of Magnetic Resonance Imaging, 2020, 51, 472-480.	3.4	30
54	Disproportionate intraventricular viscous energy loss in Fontan patients: analysis by 4D flow MRI. European Heart Journal Cardiovascular Imaging, 2019, 20, 323-333.	1.2	29

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55	Pulse wave velocity and flow in the carotid artery versus the aortic arch: Effects of aging. Journal of Magnetic Resonance Imaging, 2014, 40, 287-293.	3.4	28
56	Cardiovascular Function and Flow by 4-Dimensional Magnetic Resonance Imaging Techniques. Journal of Thoracic Imaging, 2014, 29, 185-196.	1.5	28
57	Tomographic PIV in a model of the left ventricle: 3D flow past biological and mechanical heart valves. Journal of Biomechanics, 2019, 90, 40-49.	2.1	28
58	Geometrically induced wall shear stress variability in CFD-MRI coupled simulations of blood flow in the thoracic aortas. Computers in Biology and Medicine, 2021, 133, 104385.	7.0	28
59	Unravelling cardiovascular disease using four dimensional flow cardiovascular magnetic resonance. International Journal of Cardiovascular Imaging, 2017, 33, 1069-1081.	1.5	26
60	Caloric restriction lowers endocannabinoid tonus and improves cardiac function in type 2 diabetes. Nutrition and Diabetes, 2018, 8, 6.	3.2	26
61	Scan optimization of gadolinium contrast-enhanced three-dimensional MRA of peripheral arteries with multiple bolus injections and in vitro validation of stenosis quantification. Magnetic Resonance Imaging, 1999, 17, 47-57.	1.8	25
62	Effect of Liraglutide on Cardiovascular Function and Myocardial Tissue Characteristics in Type 2 Diabetes Patients of South Asian Descent Living in the Netherlands: A Doubleâ€Blind, Randomized, Placeboâ€Controlled Trial. Journal of Magnetic Resonance Imaging, 2020, 51, 1679-1688.	3.4	25
63	Altered left ventricular vortex ring formation by 4-dimensional flow magnetic resonance imaging after repair of atrioventricular septal defects. Journal of Thoracic and Cardiovascular Surgery, 2015, 150, 1233-1240.e1.	0.8	24
64	Proximal aortic stiffening in Turner patients may be present before dilation can be detected: a segmental functional MRI study. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 27.	3.3	24
65	Scanâ€“rescan reproducibility of diastolic left ventricular kinetic energy, viscous energy loss and vorticity assessment using 4D flow MRI: analysis in healthy subjects. International Journal of Cardiovascular Imaging, 2018, 34, 905-920.	1.5	23
66	The impact of visceral and general obesity on vascular and left ventricular function and geometry: a cross-sectional magnetic resonance imaging study of the UK Biobank. European Heart Journal Cardiovascular Imaging, 2020, 21, 273-281.	1.2	22
67	Reproducibility of Aorta Segmentation on <scp>4D</scp> Flow <scp>MRI</scp> in Healthy Volunteers. Journal of Magnetic Resonance Imaging, 2021, 53, 1268-1279.	3.4	22
68	Magnetic resonance imaging assessment of reverse left ventricular remodeling late after restrictive mitral annuloplasty in early stages of dilated cardiomyopathy. Journal of Thoracic and Cardiovascular Surgery, 2008, 135, 1247-1253.	0.8	21
69	Aortic vessel wall magnetic resonance imaging at 3.0 Tesla: A reproducibility study of respiratory navigator gated freeâ€breathing 3D black blood magnetic resonance imaging. Magnetic Resonance in Medicine, 2009, 61, 35-44.	3.0	21
70	Increased Aortic Stiffness Measured by MRI in Patients With Type 1 Diabetes Mellitus and Relationship to Renal Function. American Journal of Roentgenology, 2011, 196, 697-701.	2.2	21
71	Multicenter Consistency Assessment of Valvular Flow Quantification With AutomatedÂValve Tracking in 4D Flow CMR. JACC: Cardiovascular Imaging, 2021, 14, 1354-1366.	5.3	21
72	Variations in blood flow waveforms in stenotic renal arteries by 2D phase-contrast cine MRI. Journal of Magnetic Resonance Imaging, 1998, 8, 590-597.	3.4	20

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73	Imaging techniques in cardiac resynchronization therapy. International Journal of Cardiovascular Imaging, 2008, 24, 89-105.	1.5	19
74	Cardiac MRI in postoperative congenital heart disease patients. Journal of Magnetic Resonance Imaging, 2012, 36, 511-528.	3.4	19
75	Clinical intra-cardiac 4D flow CMR: acquisition, analysis, and clinical applications. European Heart Journal Cardiovascular Imaging, 2022, 23, 154-165.	1.2	19
76	Aortic stiffness is related to left ventricular diastolic function in patients with diabetes mellitus type 1: assessment with MRI and speckle tracking strain analysis. International Journal of Cardiovascular Imaging, 2013, 29, 633-641.	1.5	18
77	High-Frame-Rate Contrast-enhanced US Particle Image Velocimetry in the Abdominal Aorta: First Human Results. Radiology, 2018, 289, 119-125.	7.3	18
78	Stress increases intracardiac 4D flow cardiovascular magnetic resonance -derived energetics and vorticity and relates to VO2max in Fontan patients. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 43.	3.3	18
79	How to Measure the Aorta Using MRI: A Practical Guide. Journal of Magnetic Resonance Imaging, 2020, 52, 971-977.	3.4	17
80	Assessment of turbulent blood flow and wall shear stress in aortic coarctation using image-based simulations. BioMedical Engineering OnLine, 2021, 20, 84.	2.7	16
81	Right coronary artery flow velocity and volume assessment with spiral Kâ€space sampled breathhold velocityâ€encoded MRI at 3 tesla: Accuracy and reproducibility. Journal of Magnetic Resonance Imaging, 2010, 31, 1215-1223.	3.4	15
82	Comparative Evaluation of Flow Quantification across the Atrioventricular Valve in Patients with Functional Univentricular Heart after Fontan's Surgery and Healthy Controls: Measurement by 4D Flow Magnetic Resonance Imaging and Streamline Visualization. Congenital Heart Disease, 2017, 12, 40-48.	0.2	15
83	Four-dimensional flow magnetic resonance imaging-derived blood flow energetics of the inferior vena cava-to-extracardiac conduit junction in Fontan patients. European Journal of Cardio-thoracic Surgery, 2019, 55, 1202-1210.	1.4	15
84	Normal and reference values for cardiovascular magnetic resonance-based pulse wave velocity in the middle-aged general population. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 46.	3.3	15
85	Quantification of common carotid artery and descending aorta vessel wall thickness from MR vessel wall imaging using a fully automated processing pipeline. Journal of Magnetic Resonance Imaging, 2017, 45, 215-228.	3.4	14
86	The Influence of Respiration on Blood Flow in the Fontan Circulation: Insights for Imaging-Based Clinical Evaluation of the Total Cavopulmonary Connection. Frontiers in Cardiovascular Medicine, 2021, 8, 683849.	2.4	14
87	4D flow cardiovascular magnetic resonance derived energetics in the Fontan circulation correlate with exercise capacity and CMR-derived liver fibrosis/congestion. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 21.	3.3	14
88	Gadolinium contrast-enhanced three-dimensional MRA of peripheral arteries with multiple bolus injection: scan optimization in vitro and in vivo. International Journal of Cardiovascular Imaging, 1999, 15, 161-173.	0.6	13
89	Corrected Tetralogy of Fallot: Comparison of Tissue Doppler Imaging and Velocity-encoded MR for Assessment of Performance and Temporal Activation of Right Ventricle. Radiology, 2011, 260, 88-97.	7.3	13
90	Evaluation of sampling density on the accuracy of aortic pulse wave velocity from velocityâ€encoded MRI in patients with Marfan syndrome. Journal of Magnetic Resonance Imaging, 2012, 36, 1470-1476.	3.4	13

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91	Disturbed Intracardiac Flow Organization After Atrioventricular Septal Defect Correction as Assessed With 4D Flow Magnetic Resonance Imaging and Quantitative Particle Tracing. Investigative Radiology, 2015, 50, 850-857.	6.2	13
92	In-vivo validation of interpolation-based phase offset correction in cardiovascular magnetic resonance flow quantification: a multi-vendor, multi-center study. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 30.	3.3	13
93	Age-associated changes in 4D flow CMR derived Tricuspid Valvular Flow and Right Ventricular Blood Flow Kinetic Energy. Scientific Reports, 2020, 10, 9908.	3.3	13
94	Quantification of Mitral Valve Regurgitation from 4D Flow MRI Using Semiautomated Flow Tracking. Radiology: Cardiothoracic Imaging, 2020, 2, e200004.	2.5	13
95	Reference Values for Cardiac and Aortic Magnetic Resonance Imaging in Healthy, Young Caucasian Adults. PLoS ONE, 2016, 11, e0164480.	2.5	11
96	Quantification of aortic pulse wave velocity from a population based cohort: a fully automatic method. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 27.	3.3	11
97	Characterization of Ascending Aortic Flow in Patients With Degenerative Aneurysms. Investigative Radiology, 2021, Publish Ahead of Print, 494-500.	6.2	11
98	Echo planar imagingâ€“induced errors in intracardiac 4D flow MRI quantification. Magnetic Resonance in Medicine, 2022, 87, 2398-2411.	3.0	11
99	Biventricular vortex ring formation corresponds to regions of highest intraventricular viscous energy loss in a Fontan patient: analysis by 4D Flow MRI. International Journal of Cardiovascular Imaging, 2018, 34, 441-442.	1.5	10
100	Left Ventricular Blood Flow Kinetic Energy Assessment by 4D Flow Cardiovascular Magnetic Resonance: A Systematic Review of the Clinical Relevance. Journal of Cardiovascular Development and Disease, 2020, 7, 37.	1.6	10
101	Segmental assessment of blood flow efficiency in the total cavopulmonary connection using four-dimensional flow magnetic resonance imaging: vortical flow is associated with increased viscous energy loss rate. European Heart Journal Open, 2021, 1, .	2.3	10
102	Robust segmentation methods with an application to aortic pulse wave velocity calculation. Computerized Medical Imaging and Graphics, 2014, 38, 179-189.	5.8	9
103	Aortic Arch Stiffness Is Associated With Incipient Brain Injury in Patients With Hypertension. American Journal of Hypertension, 2016, 29, 705-712.	2.0	8
104	Sex, body mass index, and blood pressure are related to aortic characteristics in healthy, young adults using magnetic resonance vessel wall imaging: the AMBITYON study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 173-182.	2.0	8
105	Estimated pulse wave velocity (ePWV) as a potential gatekeeper for MRI-assessed PWV: a linear and deep neural network based approach in 2254 participants of the Netherlands Epidemiology of Obesity study. International Journal of Cardiovascular Imaging, 2022, 38, 183-193.	1.5	8
106	Objective Stenosis Quantification From Post-Stenotic Signal Loss in Phase-Contrast Magnetic Resonance Angiographic Datasets of Flow Phantoms and Renal Arteries. Magnetic Resonance Imaging, 1998, 16, 249-260.	1.8	7
107	Biplane versus short-axis measures of the left atrium and ventricle in patients with systolic dysfunction assessed by magnetic resonance. Clinical Imaging, 2016, 40, 907-912.	1.5	7
108	Prognostic value of cardiovascular MR imaging biomarkers on outcome in peripheral arterial disease: a 6-year follow-up pilot study. International Journal of Cardiovascular Imaging, 2016, 32, 1281-1288.	1.5	7

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109	Late effects of pediatric hematopoietic stem cell transplantation on left ventricular function, aortic stiffness and myocardial tissue characteristics. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 6.	3.3	7
110	Altered Ascending Aorta Hemodynamics in Patients After Arterial Switch Operation for Transposition of the Great Arteries. Journal of Magnetic Resonance Imaging, 2020, 51, 1105-1116.	3.4	7
111	Reduced scan time and superior image quality with 3D flow MRI compared to 4D flow MRI for hemodynamic evaluation of the Fontan pathway. Scientific Reports, 2021, 11, 6507.	3.3	7
112	Hemodynamic Consequences of an Undersized Extracardiac Conduit in an Adult Fontan Patient Revealed by 4-Dimensional Flow Magnetic Resonance Imaging. Circulation: Cardiovascular Imaging, 2021, 14, e012612.	2.6	7
113	Extracardiac conduit adequacy along the respiratory cycle in adolescent Fontan patients. European Journal of Cardio-thoracic Surgery, 2022, 62, .	1.4	7
114	Tissue-Velocity Magnetic Resonance Imaging and Tissue Doppler Imaging to Assess Regional Myocardial Diastolic Velocities at the Right Ventricle in Corrected Pediatric Tetralogy of Fallot Patients. Investigative Radiology, 2012, 47, 189-196.	6.2	6
115	Site-specific association between distal aortic pulse wave velocity and peripheral arterial stenosis severity: a prospective cardiovascular magnetic resonance study. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 2.	3.3	6
116	Non-uniform mixing of hepatic venous flow and inferior vena cava flow in the Fontan conduit. Journal of the Royal Society Interface, 2021, 18, 20201027.	3.4	6
117	Hemodynamic interplay of vorticity, viscous energy loss, and kinetic energy from 4D Flow MRI and link to cardiac function in healthy subjects and Fontan patients. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1687-H1698.	3.2	6
118	Coupling of vessel wall morphology and function in the aorta and the carotid artery: an evaluation with MRI. International Journal of Cardiovascular Imaging, 2014, 30, 91-98.	1.5	5
119	Direct assessment of tricuspid regurgitation by 4D flow cardiovascular magnetic resonance in a patient with Ebsteinâ€™s anomaly. European Heart Journal Cardiovascular Imaging, 2018, 19, 587-588.	1.2	5
120	The effects of age at correction of aortic coarctation and recurrent obstruction on adolescent patients: MRI evaluation of wall shear stress and pulse wave velocity. European Radiology Experimental, 2019, 3, 24.	3.4	5
121	Wall Shear Stress Assessment of the False Lumen in Acute Type B Aortic Dissection Visualized by 4-Dimensional Flow Magnetic Resonance Imaging: An Ex-Vivo Study. Vascular and Endovascular Surgery, 2021, 55, 696-701.	0.7	5
122	Helical flow pattern in the right pulmonary artery after Fontan palliation. European Heart Journal Cardiovascular Imaging, 2014, 15, 1183-1183.	1.2	4
123	Associations between left ventricular function, vascular function and measures of cerebral small vessel disease: a cross-sectional magnetic resonance imaging study of the UK Biobank. European Radiology, 2021, 31, 5068-5076.	4.5	4
124	<scp>Wholeâ€Heart 4D</scp> Flow <scp>MRI</scp> for Evaluation of Normal and Regurgitant Valvular Flow: A Quantitative Comparison Between <scp>Pseudoâ€Spiral</scp> Sampling and <scp>EPI</scp> Readout. Journal of Magnetic Resonance Imaging, 2022, 55, 1120-1130.	3.4	4
125	Ascending aorta curvature and flow displacement are associated with accelerated aortic growth at long-term follow-up: A MRI study in Marfan and thoracic aortic aneurysm patients. IJC Heart and Vasculature, 2022, 38, 100926.	1.1	4
126	Influence of positional and angular variation of automatically planned short-axis stacks on quantification of left ventricular dimensions and function with cardiovascular magnetic resonance. Journal of Magnetic Resonance Imaging, 2005, 22, 754-764.	3.4	3

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127	Four-dimensional flow cardiovascular magnetic resonance for the evaluation of the atrial baffle after Mustard repair. European Heart Journal Cardiovascular Imaging, 2016, 17, 353-353.	1.2	3
128	Is Hepatic Triglyceride Content Associated with Aortic Pulse Wave Velocity and Carotid Intima-Media Thickness? The Netherlands Epidemiology of Obesity Study. Radiology, 2017, 285, 73-82.	7.3	3
129	Highâ€temporal velocityâ€encoded MRI for the assessment of left ventricular inflow propagation velocity: Comparison with color Mâ€mode echocardiography. Journal of Magnetic Resonance Imaging, 2015, 42, 1297-1304.	3.4	2
130	Wall shear stress in the thoracic aorta at rest and with dobutamine stress after arterial switch operation. European Journal of Cardio-thoracic Surgery, 2021, 59, 814-822.	1.4	2
131	Shortâ€term effects of a standardized glucose load on regionâ€specific aortic pulse wave velocity assessed by MRI. Journal of Magnetic Resonance Imaging, 2014, 39, 717-721.	3.4	1
132	Altered ascending aortic wall shear stress in patients with corrected atrioventricular septal defect: a comprehensive cardiovascular magnetic resonance and 4D flow MRI evaluation. Cardiology in the Young, 2019, 29, 637-642.	0.8	1
133	Reproducibility of left ventricular blood flow kinetic energy measured by four-dimensional flow CMR. BMC Research Notes, 2021, 14, 289.	1.4	1
134	Circulating miRNAs and Vascular Injury Markers Associate with Cardiovascular Function in Older Patients Reaching End-Stage Kidney Disease. Non-coding RNA, 2022, 8, 2.	2.6	1
135	Wholeâ€Heart 4D Flow MRI for Evaluation of Normal and Regurgitant Valvular Flow: A Quantitative Comparison Between Pseudoâ€Spiral Sampling and EPI Readout. Journal of Magnetic Resonance Imaging, 2022, 55, .	3.4	1
136	4D Flow MRI in Ascending Aortic Aneurysms: Reproducibility of Hemodynamic Parameters. Applied Sciences (Switzerland), 2022, 12, 3912.	2.5	1
137	Objective method for assessment of reliability of particle tracing visualization in 4D FLOW MRI. Journal of Cardiovascular Magnetic Resonance, 2013, 15, E29.	3.3	0
138	026â€…Dimensional flow cardiovascular magnetic resonance: two-centre, 1.5t, phantom and in-vivo validation study. Heart, 2017, 103, A21.2-A22.	2.9	0
139	Endocardial center motion for quantification of left ventricular discoordination in heart failure using cine MRI. Physiological Measurement, 2018, 39, 025009.	2.1	0
140	4â€…Four-dimensional left ventricular blood flow energetics independently predict adverse remodelling post st-elevation myocardial infarction. , 2018, , .		0
141	Editorial for â€œEvaluation of Cardiac Shunts With <scp>4D</scp> Flow Cardiac Magnetic Resonance: Intraâ€and Interobserver Variabilityâ€. Journal of Magnetic Resonance Imaging, 2020, 52, 1064-1065.	3.4	0
142	Blood Flow Quantification in Peripheral Arterial Disease: Emerging Diagnostic Techniques in Vascular Surgery. Surgical Technology International, 2021, 38, 294-304.	0.2	0