Petter Dyverfeldt

List of Publications by Year in descending order

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		186265	168389
82	2,960	28	53
papers	citations	h-index	g-index

85	85	85	2331
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Editorial for â€œSegmentation of the Aorta and Pulmonary Arteries Based on <scp>4D</scp> Flow <scp>MRI</scp> in the Pediatric Setting Using Fully Automated Multiâ€Site, Multiâ€Vendor, and Multiâ€Label Dense Uâ€Netâ€. Journal of Magnetic Resonance Imaging, 2022, 55, 1681-1682.	3.4	1
2	Wall shear stress and relative residence time as potential risk factors for abdominal aortic aneurysms in males: a 4D flow cardiovascular magnetic resonance caseâ€“control study. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 18.	3.3	19
3	Turbulent Intensity of Blood Flow in the Healthy Aorta Increases With Dobutamine Stress and is Related to Cardiac Output. Frontiers in Physiology, 2022, 13, .	2.8	6
4	Automated segmentation of the individual branches of the carotid arteries in contrast-enhanced MR angiography using DeepMedic. BMC Medical Imaging, 2021, 21, 38.	2.7	10
5	18Fluorodeoxyglucose uptake in relation to fat fraction and R2* in atherosclerotic plaques, using PET/MRI: a pilot study. Scientific Reports, 2021, 11, 14217.	3.3	2
6	Quantitative Magnetic Resonance Imaging Assessment of the Relationships Between Fat Fraction and R2 * Inside Carotid Plaques, and Circulating Lipoproteins. Journal of Magnetic Resonance Imaging, 2021, , .	3.4	2
7	In-vitro and In-Vivo Assessment of 4D Flow MRI Reynolds Stress Mapping for Pulsatile Blood Flow. Frontiers in Bioengineering and Biotechnology, 2021, 9, 774954.	4.1	4
8	Data Quality and Optimal Background Correction Order of Respiratoryâ€Gated k â€Space Segmented Spoiled Gradient Echo (SGRE) and Echo Planar Imaging (EPI)â€Based 4D Flow MRI. Journal of Magnetic Resonance Imaging, 2020, 51, 885-896.	3.4	7
9	Towards Automated Quantification of Vessel Wall Composition Using MRI. Journal of Magnetic Resonance Imaging, 2020, 52, 710-719.	3.4	4
10	In vitro experiments on ICOSA6 4D flow MRI measurement for the quantification of velocity and turbulence parameters. Magnetic Resonance Imaging, 2020, 72, 49-60.	1.8	8
11	Exploring the Relationships Between Hemodynamic Stresses in the Carotid Arteries. Frontiers in Cardiovascular Medicine, 2020, 7, 617755.	2.4	6
12	Left Ventricular Flow Analysis. Circulation: Cardiovascular Imaging, 2019, 12, e008130.	2.6	41
13	Visualizing and quantifying flow stasis in abdominal aortic aneurysms in men using 4D flow MRI. Magnetic Resonance Imaging, 2019, 57, 103-110.	1.8	16
14	Validation of pressure drop assessment using 4D flow MRIâ€based turbulence production in various shapes of aortic stenoses. Magnetic Resonance in Medicine, 2019, 81, 893-906.	3.0	27
15	4D Flow MRI quantification of blood flow patterns, turbulence and pressure drop in normal and stenotic prosthetic heart valves. Magnetic Resonance Imaging, 2019, 55, 118-127.	1.8	16
16	Test-retest variability of left ventricular 4D flow cardiovascular magnetic resonance measurements in healthy subjects. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 15.	3.3	35
17	Assessment of Reynolds stress components and turbulent pressure loss using 4D flow MRI with extended motion encoding. Magnetic Resonance in Medicine, 2018, 79, 1962-1971.	3.0	22
18	Fixed volume particle trace emission for the analysis of left atrial blood flow using 4D Flow MRI. Magnetic Resonance Imaging, 2018, 47, 83-88.	1.8	11

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19	Turbulent kinetic energy in the right ventricle: Potential MR marker for risk stratification of adults with repaired Tetralogy of Fallot. Journal of Magnetic Resonance Imaging, 2018, 47, 1043-1053.	3.4	34
20	Age-Related Vascular Changes Affect Turbulence in Aortic Blood Flow. Frontiers in Physiology, 2018, 9, 36.	2.8	50
21	Comparison of respiratory motion suppression techniques for 4D flow MRI. Magnetic Resonance in Medicine, 2017, 78, 1877-1882.	3.0	26
22	Estimating the irreversible pressure drop across a stenosis by quantifying turbulence production using 4D Flow MRI. Scientific Reports, 2017, 7, 46618.	3.3	50
23	Quantitative fat and R2* mapping in vivo to measure lipidâ€rich necrotic core and intraplaque hemorrhage in carotid atherosclerosis. Magnetic Resonance in Medicine, 2017, 78, 285-296.	3.0	9
24	Assessment of turbulent flow effects on the vessel wall using four-dimensional flow MRI. Magnetic Resonance in Medicine, 2017, 77, 2310-2319.	3.0	21
25	112â€…Evaluation of patients with left ventricular thrombus using intra-cardiac blood visualisation with 4d flow. Heart, 2017, 103, A83-A84.	2.9	0
26	4D flow MRI can detect subtle right ventricular dysfunction in primary left ventricular disease. Journal of Magnetic Resonance Imaging, 2016, 43, 558-565.	3.4	40
27	Assessment of turbulent viscous stress using ICOSA 4D Flow MRI for prediction of hemodynamic blood damage. Scientific Reports, 2016, 6, 39773.	3.3	31
28	Letter by Dyverfeldt and Ebbers regarding article â€œEstimation of turbulent kinetic energy using 4D phase-contrast MRI: Effect of scan parameters and target vessel sizeâ€• Magnetic Resonance Imaging, 2016, 34, 1226.	1.8	3
29	Retrospectively gated intracardiac 4<scp>D</scp> flow <scp>MRI</scp> using spiral trajectories. Magnetic Resonance in Medicine, 2016, 75, 196-206.	3.0	22
30	Quantification of turbulence and velocity in stenotic flow using spiral threeâ€dimensional phaseâ€contrast MRI. Magnetic Resonance in Medicine, 2016, 75, 1249-1255.	3.0	20
31	The kinetic energies of left ventricular 4D flow components correlate with established markers of prognosis and represent novel imaging biomarkers in both ischaemic and dilated cardiomyopathy. Journal of Cardiovascular Magnetic Resonance, 2016, 18, O68.	3.3	2
32	Left ventricular kinetic energy as a marker of mechanical dyssynchrony in failing hearts with LBBB: a 4D flow CMR study. Journal of Cardiovascular Magnetic Resonance, 2016, 18, O91.	3.3	0
33	4D Flow MRIâ€based pressure loss estimation in stenotic flows: Evaluation using numerical simulations. Magnetic Resonance in Medicine, 2016, 75, 1808-1821.	3.0	45
34	Altered Diastolic Flow Patterns and Kinetic Energy in Subtle Left Ventricular Remodeling and Dysfunction Detected by 4D Flow MRI. PLoS ONE, 2016, 11, e0161391.	2.5	53
35	Ascending Aortic Stiffness with Bicuspid Aortic Valve is Variable and Not Predicted by Conventional Parameters in Young Patients. Journal of Heart Valve Disease, 2016, 25, 270-280.	0.5	3
36	Turbulent kinetic energy in normal and myopathic left ventricles. Journal of Magnetic Resonance Imaging, 2015, 41, 1021-1029.	3.4	62

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37	Atlas-based analysis of 4D flow CMR: Automated vessel segmentation and flow quantification. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 87.	3.3	48
38	Extended 3D approach for quantification of abnormal ascending aortic flow. Magnetic Resonance Imaging, 2015, 33, 695-700.	1.8	17
39	Automatic multi-vessel volume flow calculation with 4D flow CMR. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O45.	3.3	0
40	Turbulent kinetic energy in the ascending aorta is greater in bicuspid than tricuspid aortic valve stenosis. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O88.	3.3	1
41	Reproducibility and variability of left ventricular 4D flow in healthy volunteers. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P7.	3.3	1
42	4D flow CMR can detect subtle right ventricular dysfunction in primary left ventricular disease. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q4.	3.3	1
43	Aortic stiffness with bicuspid aortic valve is variable and not predicted by conventional parameters in young patients. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q80.	3.3	3
44	4D flow cardiovascular magnetic resonance consensus statement. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 72.	3.3	642
45	Abstract 13435: Deranged Intra-Cardiac Blood Flow Components and Kinetic Energy in Dilated Cardiomyopathy Are an Additional Marker of Disease Severity and Correlate With Established Markers of Prognosis. Circulation, 2015, 132, .	1.6	0
46	Pulse wave velocity with 4D flow MRI: Systematic differences and age-related regional vascular stiffness. Magnetic Resonance Imaging, 2014, 32, 1266-1271.	1.8	46
47	Comprehensive Evaluation of Culture-Negative Endocarditis with Use of Cardiac and 4-Dimensional-Flow Magnetic Resonance Imaging. Texas Heart Institute Journal, 2014, 41, 351-352.	0.3	3
48	Letter by Hope et al Regarding Article, â€œBicuspid Aortic Cusp Fusion Morphology Alters Aortic Three-Dimensional Outflow Patterns, Wall Shear Stress, and Expression of Aortopathyâ€. Circulation, 2014, 130, e170.	1.6	0
49	MRI hemodynamic markers of progressive bicuspid aortic valveâ€related aortic disease. Journal of Magnetic Resonance Imaging, 2014, 40, 140-145.	3.4	78
50	Reduction of motion artifacts in carotid MRI using freeâ€induction decay navigators. Journal of Magnetic Resonance Imaging, 2014, 40, 214-220.	3.4	13
51	Improving Blood Flow Simulations by Incorporating Measured Subject-Specific Wall Motion. Cardiovascular Engineering and Technology, 2014, 5, 261-269.	1.6	18
52	Highly accelerated aortic 4D flow MR imaging with variable-density random undersampling. Magnetic Resonance Imaging, 2014, 32, 1012-1020.	1.8	17
53	Abstract 20143: Direct in vivo Quantification of Intraplaque Hemorrhage and Fat in Atherosclerosis by Magnetic Resonance Imaging. Circulation, 2014, 130, .	1.6	0
54	Motion compensated carotid MRI using FID navigators. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P242.	3.3	0

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55	Turbulent kinetic energy from CMR identifies disturbed diastolic flow in myopathic left ventricles. Journal of Cardiovascular Magnetic Resonance, 2013, 15, E114.	3.3	0
56	Turbulence mapping: a new CMR approach for assessment of aortic stenosis. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P110.	3.3	0
57	Accelerated 4D flow imaging with variable-density cartesian undersampling and parallel imaging reconstruction. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P11.	3.3	0
58	Improved quantification of abnormal aortic flow in 3D compared to standard 2D approach. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P232.	3.3	0
59	Reproducibility of quantitative analysis of aortic 4D flow data. Journal of Cardiovascular Magnetic Resonance, 2013, 15, .	3.3	4
60	Clinical Applications of Aortic 4D Flow Imaging. Current Cardiovascular Imaging Reports, 2013, 6, 128-139.	0.6	6
61	Magnetic Resonance Measurement of Turbulent Kinetic Energy for the Estimation of Irreversible Pressure Loss in Aortic Stenosis. JACC: Cardiovascular Imaging, 2013, 6, 64-71.	5.3	122
62	Cardiothoracic Magnetic Resonance Flow Imaging. Journal of Thoracic Imaging, 2013, 28, 217-230.	1.5	42
63	Post-stenotic dilation: Evaluation of ascending aortic dilation with 4D flow MR imaging. International Journal of Cardiology, 2012, 156, e40-e42.	1.7	22
64	Accuracy of MRI wall shear stress estimation. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	3.3	1
65	Assessment of the accuracy of MRI wall shear stress estimation using numerical simulations. Journal of Magnetic Resonance Imaging, 2012, 36, 128-138.	3.4	110
66	In Vivo Validation of Numerical Prediction for Turbulence Intensity in an Aortic Coarctation. Annals of Biomedical Engineering, 2012, 40, 860-870.	2.5	56
67	4-D blood flow in the human right ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H2344-H2350.	3.2	111
68	Visualization and quantification of 4D blood flow distribution and energetics in the right ventricle. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	3
69	Diastolic preparation for left ventricular ejection - A marker of inefficiency of the failing heart. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	0
70	Hemodynamic aspects of mitral regurgitation assessed by generalized phaseâ€contrast MRI. Journal of Magnetic Resonance Imaging, 2011, 33, 582-588.	3.4	36
71	Comparison of fourâ€dimensional flow parameters for quantification of flow eccentricity in the ascending aorta. Journal of Magnetic Resonance Imaging, 2011, 34, 1226-1230.	3.4	121
72	A novel MRI framework for the quantification of any moment of arbitrary velocity distributions. Magnetic Resonance in Medicine, 2011, 65, 725-731.	3.0	20

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73	Quantification of presystolic blood flow organization and energetics in the human left ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H2135-H2141.	3.2	110
74	In vitro assessment of flow patterns and turbulence intensity in prosthetic heart valves using generalized phaseâ€contrast MRI. Journal of Magnetic Resonance Imaging, 2010, 31, 1075-1080.	3.4	38
75	Simulation of phase contrast MRI of turbulent flow. Magnetic Resonance in Medicine, 2010, 64, 1039-1046.	3.0	46
76	Semi-automatic quantification of 4D left ventricular blood flow. Journal of Cardiovascular Magnetic Resonance, 2010, 12, 9.	3.3	170
77	Assessment of diastolic efficiency of blood transit through normal and dysfunctional left ventricles. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	0
78	Quantification of 4D left ventricular blood flow organization in normal and failing hearts. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	1
79	On MRI turbulence quantification. Magnetic Resonance Imaging, 2009, 27, 913-922.	1.8	88
80	143 Multidimensional turbulence mapping in mitral insufficiency. Journal of Cardiovascular Magnetic Resonance, 2008, 10, .	3.3	0
81	Assessment of fluctuating velocities in disturbed cardiovascular blood flow: In vivo feasibility of generalized phaseâ€contrast MRI. Journal of Magnetic Resonance Imaging, 2008, 28, 655-663.	3.4	128
82	Quantification of intravoxel velocity standard deviation and turbulence intensity by generalizing phase-contrast MRI. Magnetic Resonance in Medicine, 2006, 56, 850-858.	3.0	128