

# Pim van Ooij

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62  
papers

1,657  
citations

23  
h-index

39  
g-index

72  
ext. papers

2,086  
ext. citations

4.6  
avg, IF

4.47  
L-index

#	Paper	IF	Citations
62	Magnetic Resonance Imaging-Based 4D Flow: The Role of Artificial Intelligence. <i>Contemporary Medical Imaging</i> , <b>2022</b> , 333-348	0.1	
61	Hemodynamic Study of a Patient-Specific Intracranial Aneurysm: Comparative Assessment of Tomographic PIV, Stereoscopic PIV, In Vivo MRI and Computational Fluid Dynamics. <i>Cardiovascular Engineering and Technology</i> , <b>2021</b> , 1	2.2	
60	Retrospective Camera-Based Respiratory Gating in Clinical Whole-Heart 4D Flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2021</b> , 54, 440-451	5.6	2
59	Fully quantitative mapping of abnormal aortic velocity and wall shear stress direction in patients with bicuspid aortic valves and repaired coarctation using 4D flow cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 9	6.9	3
58	Multicenter Consistency Assessment of Valvular Flow Quantification With Automated Valve Tracking in 4D Flow CMR. <i>JACC: Cardiovascular Imaging</i> , <b>2021</b> , 14, 1354-1366	8.4	5
57	Coronary Flow Assessment Using Accelerated 4D Flow MRI With Respiratory Motion Correction. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 725833	5.8	
56	Hypertrophic Cardiomyopathy Is Associated with Altered Left Ventricular 3D Blood Flow Dynamics. <i>Radiology: Cardiothoracic Imaging</i> , <b>2020</b> , 2, e190038	8.3	3
55	Quantification of Mitral Valve Regurgitation from 4D Flow MRI Using Semiautomated Flow Tracking. <i>Radiology: Cardiothoracic Imaging</i> , <b>2020</b> , 2, e200004	8.3	2
54	Impact of age, sex, and global function on normal aortic hemodynamics. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2088-2102	4.4	3
53	High Spatiotemporal Resolution 4D Flow MRI of Intracranial Aneurysms at 7T in 10 Minutes. <i>American Journal of Neuroradiology</i> , <b>2020</b> , 41, 1201-1208	4.4	9
52	Pseudo-spiral sampling and compressed sensing reconstruction provides flexibility of temporal resolution in accelerated aortic 4D flow MRI: A comparison with k-t principal component analysis. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4255	4.4	7
51	Highly accelerated 4D flow cardiovascular magnetic resonance using a pseudo-spiral Cartesian acquisition and compressed sensing reconstruction for carotid flow and wall shear stress. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2020</b> , 22, 7	6.9	18
50	Hemodynamic Aspects of Vessel Wall Imaging: 4D Flow <b>2020</b> , 297-330		0
49	Data Assimilation for Full 4D PC-MRI Measurements: Physics-Based Denoising and Interpolation. <i>Computer Graphics Forum</i> , <b>2020</b> , 39, 496-512	2.4	1
48	Inter-patient variations in flow boundary conditions at middle cerebral artery from 7T PC-MRI and influence on Computational Fluid Dynamics of intracranial aneurysms. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 120, 103759	7	4
47	Abnormal blood flow and wall shear stress are present in corrected aortic coarctation despite successful surgical repair. <i>Journal of Cardiovascular Surgery</i> , <b>2019</b> , 60, 152-154	0.7	4
46	Bileaflet mechanical aortic valves do not alter ascending aortic wall shear stress. <i>International Journal of Cardiovascular Imaging</i> , <b>2019</b> , 35, 703-710	2.5	4

45	Transcatheter aortic valve replacement alters ascending aortic blood flow and wall shear stress patterns: A 4D flow MRI comparison with age-matched, elderly controls. <i>European Radiology</i> , <b>2019</b> , 29, 1444-1451	8	12
44	Two-Minute k-Space and Time-accelerated Aortic Four-dimensional Flow MRI: Dual-Center Study of Feasibility and Impact on Velocity and Wall Shear Stress Quantification. <i>Radiology: Cardiothoracic Imaging</i> , <b>2019</b> , 1, e180008	8.3	6
43	An isolated beating pig heart platform for a comprehensive evaluation of intracardiac blood flow with 4D flow MRI: a feasibility study. <i>European Radiology Experimental</i> , <b>2019</b> , 3, 40	4.5	3
42	Accelerated 4D phase contrast MRI in skeletal muscle contraction. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 1799-1811	4.4	12
41	Aortic valve stenosis and aortic diameters determine the extent of increased wall shear stress in bicuspid aortic valve disease. <i>Journal of Magnetic Resonance Imaging</i> , <b>2018</b> , 48, 522-530	5.6	37
40	Intracranial 4D flow magnetic resonance imaging reveals altered haemodynamics in sickle cell disease. <i>British Journal of Haematology</i> , <b>2018</b> , 180, 432-442	4.5	10
39	Perioperative evaluation of regional aortic wall shear stress patterns in patients undergoing aortic valve and/or proximal thoracic aortic replacement. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2018</b> , 155, 2277-2286.e2	1.5	22
38	Aneurysmal Parent Artery-Specific Inflow Conditions for Complete and Incomplete Circle of Willis Configurations. <i>American Journal of Neuroradiology</i> , <b>2018</b> , 39, 910-915	4.4	11
37	k-t accelerated aortic 4D flow MRI in under two minutes: Feasibility and impact of resolution, k-space sampling patterns, and respiratory navigator gating on hemodynamic measurements. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 195-207	4.4	35
36	Aortic valve-mediated wall shear stress is heterogeneous and predicts regional aortic elastic fiber thinning in bicuspid aortic valve-associated aortopathy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2018</b> , 156, 2112-2120.e2	1.5	50
35	Advanced cardiac MRI techniques for evaluation of left-sided valvular heart disease. <i>Journal of Magnetic Resonance Imaging</i> , <b>2018</b> , 48, 318-329	5.6	14
34	Four-dimensional flow MRI of stented versus stentless aortic valve bioprostheses. <i>European Radiology</i> , <b>2018</b> , 28, 257-264	8	11
33	Vessel wall characterization using quantitative MRI: what's in a number?. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2018</b> , 31, 201-222	2.8	22
32	Spatial correlations between MRI-derived wall shear stress and vessel wall thickness in the carotid bifurcation. <i>European Radiology Experimental</i> , <b>2018</b> , 2, 27	4.5	10
31	Regional assessment of carotid artery pulse wave velocity using compressed sensing accelerated high temporal resolution 2D CINE phase contrast cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 86	6.9	14
30	Aortic Valve Stenosis Alters Expression of Regional Aortic Wall Shear Stress: New Insights From a 4-Dimensional Flow Magnetic Resonance Imaging Study of 571 Subjects. <i>Journal of the American Heart Association</i> , <b>2017</b> , 6,	6	81
29	Altered aortic 3D hemodynamics and geometry in pediatric Marfan syndrome patients. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2017</b> , 19, 30	6.9	26
28	Comparison of 4D flow and 2D velocity-encoded phase contrast MRI sequences for the evaluation of aortic hemodynamics. <i>International Journal of Cardiovascular Imaging</i> , <b>2016</b> , 32, 1529-41	2.5	41

27	Age-related changes in aortic 3D blood flow velocities and wall shear stress: Implications for the identification of altered hemodynamics in patients with aortic valve disease. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 43, 1239-49	5.6	45
26	Influence of beta-blocker therapy on aortic blood flow in patients with bicuspid aortic valve. <i>International Journal of Cardiovascular Imaging</i> , <b>2016</b> , 32, 621-8	2.5	15
25	The Effect of Spatial and Temporal Resolution of Cine Phase Contrast MRI on Wall Shear Stress and Oscillatory Shear Index Assessment. <i>PLoS ONE</i> , <b>2016</b> , 11, e0163316	3.7	30
24	Reproducibility and interobserver variability of systolic blood flow velocity and 3D wall shear stress derived from 4D flow MRI in the healthy aorta. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 43, 236-48	5.6	64
23	4D flow MRI and T1 -Mapping: Assessment of altered cardiac hemodynamics and extracellular volume fraction in hypertrophic cardiomyopathy. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 43, 107-14	5.6	25
22	Thinner Regions of Intracranial Aneurysm Wall Correlate with Regions of Higher Wall Shear Stress: A 7T MRI Study. <i>American Journal of Neuroradiology</i> , <b>2016</b> , 37, 1310-7	4.4	36
21	Additional Value of Intra-Aneurysmal Hemodynamics in Discriminating Ruptured versus Unruptured Intracranial Aneurysms. <i>American Journal of Neuroradiology</i> , <b>2015</b> , 36, 1920-6	4.4	24
20	Multiscale 3-D + T intracranial aneurysmal flow vortex detection. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 1355-62	5	7
19	Valve-Related Hemodynamics Mediate Human Bicuspid Aortopathy: Insights From Wall Shear Stress Mapping. <i>Journal of the American College of Cardiology</i> , <b>2015</b> , 66, 892-900	15.1	251
18	Improved respiratory navigator gating for thoracic 4D flow MRI. <i>Magnetic Resonance Imaging</i> , <b>2015</b> , 33, 992-9	3.3	12
17	Characterization of abnormal wall shear stress using 4D flow MRI in human bicuspid aortopathy. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 1385-97	4.7	61
16	Volumetric arterial wall shear stress calculation based on cine phase contrast MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 41, 505-16	5.6	104
15	Assessment of altered three-dimensional blood characteristics in aortic disease by velocity distribution analysis. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 817-25	4.4	17
14	A methodology to detect abnormal relative wall shear stress on the full surface of the thoracic aorta using four-dimensional flow MRI. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1216-27	4.4	55
13	Three-dimensional haemodynamics in patients with obstructive and non-obstructive hypertrophic cardiomyopathy assessed by cardiac magnetic resonance. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2015</b> , 16, 29-36	4.1	19
12	Thoracic aorta 3D hemodynamics in pediatric and young adult patients with bicuspid aortic valve. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 954-63	5.6	30
11	Thoracic aortic wall shear stress atlases in patients with bicuspid aortic valves. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2014</b> , 16, P161	6.9	4
10	Generalized versus patient-specific inflow boundary conditions in computational fluid dynamics simulations of cerebral aneurysmal hemodynamics. <i>American Journal of Neuroradiology</i> , <b>2014</b> , 35, 1543-8	4.4	60

9	Quantification and visualization of flow in the Circle of Willis: time-resolved three-dimensional phase contrast MRI at 7 T compared with 3 T. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 868-76	4.4	47
8	Wall shear stress estimated with phase contrast MRI in an in vitro and in vivo intracranial aneurysm. <i>Journal of Magnetic Resonance Imaging</i> , <b>2013</b> , 38, 876-84	5.6	49
7	k-t BLAST and SENSE accelerated time-resolved three-dimensional phase contrast MRI in an intracranial aneurysm. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2013</b> , 26, 261-70	2.8	15
6	3D cine phase-contrast MRI at 3T in intracranial aneurysms compared with patient-specific computational fluid dynamics. <i>American Journal of Neuroradiology</i> , <b>2013</b> , 34, 1785-91	4.4	38
5	Complex flow patterns in a real-size intracranial aneurysm phantom: phase contrast MRI compared with particle image velocimetry and computational fluid dynamics. <i>NMR in Biomedicine</i> , <b>2012</b> , 25, 14-26	4.4	67
4	Arterial spin labeling measurement of cerebral perfusion in children with sickle cell disease. <i>Journal of Magnetic Resonance Imaging</i> , <b>2012</b> , 35, 779-87	5.6	48
3	Cerebral perfusion long term after therapeutic occlusion of the internal carotid artery in patients who tolerated angiographic balloon test occlusion. <i>American Journal of Neuroradiology</i> , <b>2012</b> , 33, 329-35	4.4	20
2	Comparison of phase-contrast MR imaging and endovascular sonography for intracranial blood flow velocity measurements. <i>American Journal of Neuroradiology</i> , <b>2012</b> , 33, 1786-90	4.4	22
1	Multiscale flow patterns within an intracranial aneurysm phantom. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 3447-50	5	8