

# Oliver E Wieben

## 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.

163  
papers

4,894  
citations

36  
h-index

65  
g-index

186  
ext. papers

5,906  
ext. citations

5.8  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
163	Clinical Applications of 4D Flow MRI in the Portal Venous System.. <i>Magnetic Resonance in Medical Sciences</i> , <b>2022</b> ,	2.9	1
162	Development of a PET/MRI exercise stress test for determining cardiac glucose dependence in pulmonary arterial hypertension.. <i>Pulmonary Circulation</i> , <b>2022</b> , 12, e12025	2.7	
161	The Impact of Aging on the Association Between Aortic Stiffness and Cerebral Pulsatility Index.. <i>Frontiers in Cardiovascular Medicine</i> , <b>2022</b> , 9, 821151	5.4	2
160	Fully automated intracardiac 4D flow MRI post-processing using deep learning for biventricular segmentation.. <i>European Radiology</i> , <b>2022</b> , 1	8	0
159	False lumen rotational flow and aortic stiffness are associated with aortic growth rate in patients with chronic aortic dissection of the descending aorta: a 4D flow cardiovascular magnetic resonance study.. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2022</b> , 24, 20	6.9	1
158	MR Angiography Series: Abdominal and Pelvic MR Angiography.. <i>Radiographics</i> , <b>2022</b> , 210224	5.4	
157	Characterization of mesenteric and portal hemodynamics using 4D flow MRI: the effects of meals and diurnal variation.. <i>Abdominal Radiology</i> , <b>2022</b> , 1	3	0
156	Exercise-induced irregular right heart flow dynamics in adolescents and young adults born preterm. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 116	6.9	1
155	Abdominal applications of quantitative 4D flow MRI. <i>Abdominal Radiology</i> , <b>2021</b> , 1	3	0
154	Wall Shear Stress Predicts Aortic Dilation in Patients With Bicuspid Aortic Valve. <i>JACC: Cardiovascular Imaging</i> , <b>2021</b> ,	8.4	4
153	Pseudo-Enhancement in Intracranial Aneurysms on Black-Blood MRI: Effects of Flow Rate, Spatial Resolution, and Additional Flow Suppression. <i>Journal of Magnetic Resonance Imaging</i> , <b>2021</b> , 54, 888-901	5.6	4
152	Exaggerated Cardiac Contractile Response to Hypoxia in Adults Born Preterm. <i>Journal of Clinical Medicine</i> , <b>2021</b> , 10,	5.1	3
151	Dynamic FDG PET Imaging to Probe for Cardiac Metabolic Remodeling in Adults Born Premature. <i>Journal of Clinical Medicine</i> , <b>2021</b> , 10,	5.1	1
150	Leaflet fusion length is associated with aortic dilation and flow alterations in non-dysfunctional bicuspid aortic valve. <i>European Radiology</i> , <b>2021</b> , 31, 9262-9272	8	1
149	Sildenafil administration improves right ventricular function on 4D flow MRI in young adults born premature. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2021</b> , 320, H2295-H2304	5.2	1
148	Altered Right Ventricular Filling at Four-dimensional Flow MRI in Young Adults Born Prematurely. <i>Radiology: Cardiothoracic Imaging</i> , <b>2021</b> , 3, e200618	8.3	0
147	Aortic flow dynamics and stiffness in Loeys-Dietz syndrome patients: a comparison with healthy volunteers and Marfan syndrome patients. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2021</b> ,	4.1	1

146	Vertebral artery hypoplasia influences age-related differences in blood flow of the large intracranial arteries. <i>Aging Brain</i> , <b>2021</b> , 1, 100019		
145	Non-invasive assessment of mesenteric hemodynamics in patients with suspected chronic mesenteric ischemia using 4D flow MRI. <i>Abdominal Radiology</i> , <b>2021</b> , 1	3	5
144	A phantom study comparing radial trajectories for accelerated cardiac 4D flow MRI against a particle imaging velocimetry reference. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 363-371	4.4	2
143	Automatic measurement plane placement for 4D Flow MRI of the great vessels using deep learning. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2021</b> , 1	3.9	0
142	Nitric oxide synthase inhibition in healthy adults reduces regional and total cerebral macrovascular blood flow and microvascular perfusion. <i>Journal of Physiology</i> , <b>2021</b> , 599, 4973-4989	3.9	2
141	Decreased ventricular size and mass mediate the reduced exercise capacity in adolescents and adults born premature. <i>Early Human Development</i> , <b>2021</b> , 160, 105426	2.2	0
140	Daikenchuto increases blood flow in the superior mesenteric artery in humans: A comparison study between four-dimensional phase-contrast vastly undersampled isotropic projection reconstruction magnetic resonance imaging and Doppler ultrasound. <i>PLoS ONE</i> , <b>2021</b> , 16, e0245878	3.7	0
139	Impact of ferumoxytol magnetic resonance imaging on the rhesus macaque maternal-fetal interface. <i>Biology of Reproduction</i> , <b>2020</b> , 102, 434-444	3.9	2
138	Association of cerebral white matter disease with cardiovascular risk factors, amyloid accumulation, and cognition. <i>Alzheimer's and Dementia</i> , <b>2020</b> , 16, e046518	1.2	
137	Feasibility of Cardiovascular Four-dimensional Flow MRI during Exercise in Healthy Participants. <i>Radiology: Cardiothoracic Imaging</i> , <b>2020</b> , 2, e190033	8.3	5
136	Right Pulmonary Vein Atresia in a Mildly Symptomatic Boy: Comprehensive Analysis of Flow Dynamics Using Non-contrast-enhanced 4D Flow MR Imaging. <i>Magnetic Resonance in Medical Sciences</i> , <b>2020</b> , 19, 287-289	2.9	0
135	Optimal Plane Selection for Measuring Post-prandial Blood Flow Increase within the Superior Mesenteric Artery: Analysis Using 4D Flow and Computational Fluid Dynamics. <i>Magnetic Resonance in Medical Sciences</i> , <b>2020</b> , 19, 366-374	2.9	12
134	Cardiorespiratory Fitness Associates with Cerebral Vessel Pulsatility in a Cohort Enriched with Risk for Alzheimer's Disease. <i>Brain Plasticity</i> , <b>2020</b> , 5, 175-184	3.5	1
133	Flow Quantification with MRI. <i>Advances in Magnetic Resonance Technology and Applications</i> , <b>2020</b> , 1, 931-951	3.5	1
132	Quantitative ferumoxytol-enhanced MRI in pregnancy: A feasibility study in the nonhuman primate. <i>Magnetic Resonance Imaging</i> , <b>2020</b> , 65, 100-108	3.3	6
131	Low and Oscillatory Wall Shear Stress Is Not Related to Aortic Dilation in Patients With Bicuspid Aortic Valve: A Time-Resolved 3-Dimensional Phase-Contrast Magnetic Resonance Imaging Study. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2020</b> , 40, e10-e20	9.4	7
130	Differential contribution of cyclooxygenase to basal cerebral blood flow and hypoxic cerebral vasodilation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2020</b> , 318, R468-R479	3.2	7
129	Evaluation of a motion-robust 2D chemical shift-encoded technique for R2* and field map quantification in ferumoxytol-enhanced MRI of the placenta in pregnant rhesus macaques. <i>Journal of Magnetic Resonance Imaging</i> , <b>2020</b> , 51, 580-592	5.6	4

128	Association Between Preterm Birth and Arrested Cardiac Growth in Adolescents and Young Adults. <i>JAMA Cardiology</i> , <b>2020</b> , 5, 910-919	16.2	27
127	Partial Aortic Valve Leaflet Fusion Is Related to Deleterious Alteration of Proximal Aorta Hemodynamics. <i>Circulation</i> , <b>2019</b> , 139, 2707-2709	16.7	15
126	Increased rotational flow in the proximal aortic arch is associated with its dilation in bicuspid aortic valve disease. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2019</b> , 20, 1407-1417	4.1	30
125	Measurement of microvascular cerebral blood volume changes over the cardiac cycle with ferumoxytol-enhanced T MRI. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3588-3598	4.4	3
124	Influence of Aortic Dilation on the Regional Aortic Stiffness of Bicuspid Aortic Valve Assessed by 4-Dimensional Flow Cardiac Magnetic Resonance: Comparison With Marfan Syndrome and Degenerative Aortic Aneurysm. <i>JACC: Cardiovascular Imaging</i> , <b>2019</b> , 12, 1020-1029	8.4	39
123	Uteroplacental and Fetal 4D Flow MRI in the Pregnant Rhesus Macaque. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 49, 534-545	5.6	11
122	Reproducibility and Changes in Vena Caval Blood Flow by Using 4D Flow MRI in Pulmonary Emphysema and Chronic Obstructive Pulmonary Disease (COPD): The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Substudy. <i>Radiology</i> , <b>2019</b> , 292, 585-594	20.5	9
121	Age-Related Reductions in Cerebrovascular Reactivity Using 4D Flow MRI. <i>Frontiers in Aging Neuroscience</i> , <b>2019</b> , 11, 281	5.3	27
120	Association of Cardiovascular and Alzheimer's Disease Risk Factors with Intracranial Arterial Blood Flow in Whites and African Americans. <i>Journal of Alzheimer's Disease</i> , <b>2019</b> , 72, 919-929	4.3	7
119	Influence of Vertebral Artery Hypoplasia on Cerebral Blood Flow Regulation. <i>FASEB Journal</i> , <b>2019</b> , 33, 528.13	0.9	
118	IC-P-109: LOWER ARTERIAL BLOOD FLOW AND HIGHER PULSATILITY INDEX ARE ASSOCIATED WITH NEURONAL INJURY <b>2019</b> , 15, P93-P95		
117	Reduced regional flow in the left ventricle after anterior acute myocardial infarction: a case control study using 4D flow MRI. <i>BMC Medical Imaging</i> , <b>2019</b> , 19, 101	2.9	5
116	Perfusion of the placenta assessed using arterial spin labeling and ferumoxytol dynamic contrast enhanced magnetic resonance imaging in the rhesus macaque. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1964-1978	4.4	11
115	Four-dimensional Flow MRI as a Marker for Risk Stratification of Gastroesophageal Varices in Patients with Liver Cirrhosis. <i>Radiology</i> , <b>2019</b> , 290, 101-107	20.5	17
114	Pressure Mapping and Hemodynamic Assessment of Intracranial Dural Sinuses and Dural Arteriovenous Fistulas with 4D Flow MRI. <i>American Journal of Neuroradiology</i> , <b>2018</b> , 39, 485-487	4.4	11
113	Aortic flow patterns and wall shear stress maps by 4D-flow cardiovascular magnetic resonance in the assessment of aortic dilatation in bicuspid aortic valve disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 28	6.9	100
112	Comparison of ferumoxytol-based cerebral blood volume estimates using quantitative R and R2* relaxometry. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 3072-3081	4.4	6
111	Non contrast, Pseudo-Continuous Arterial Spin Labeling and Accelerated 3-Dimensional Radial Acquisition Intracranial 3-Dimensional Magnetic Resonance Angiography for the Detection and Classification of Intracranial Arteriovenous Shunts. <i>Investigative Radiology</i> , <b>2018</b> , 53, 80-86	10.1	6

110	Adults born preterm exhibit bi-ventricular hypercontractility and inefficiency. <i>FASEB Journal</i> , <b>2018</b> , 32, 901.4	0.9	
109	P1-456: ASSOCIATION OF CARDIOVASCULAR RISK FACTORS WITH MICRO- AND MACROVASCULAR CEREBRAL FUNCTION IN WHITES AND AFRICAN AMERICANS <b>2018</b> , 14, P491-P491		
108	MRI assessment of aortic flow in patients with pulmonary arterial hypertension in response to exercise. <i>BMC Medical Imaging</i> , <b>2018</b> , 18, 55	2.9	3
107	Four-dimensional phase-contrast vastly undersampled isotropic projection reconstruction (4D PC-VIPR) MR evaluation of the renal arteries in transplant recipients: Preliminary results. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 46, 595-603	5.6	11
106	Macrovascular and microvascular cerebral blood flow in adults at risk for Alzheimer's disease. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , <b>2017</b> , 7, 48-55	5.2	22
105	Highly efficient maternal-fetal Zika virus transmission in pregnant rhesus macaques. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006378	7.6	142
104	Intracranial Arterial 4D Flow in Individuals with Mild Cognitive Impairment is Associated with Cognitive Performance and Amyloid Positivity. <i>Journal of Alzheimer's Disease</i> , <b>2017</b> , 60, 243-252	4.3	8
103	Comparison of radial 4D Flow-MRI with perivascular ultrasound to quantify blood flow in the abdomen and introduction of a porcine model of pre-hepatic portal hypertension. <i>European Radiology</i> , <b>2017</b> , 27, 5316-5324	8	15
102	Insulin resistance is associated with lower arterial blood flow and reduced cortical perfusion in cognitively asymptomatic middle-aged adults. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 2249-2261	7.3	30
101	Four-dimensional flow magnetic resonance imaging and ultrasound assessment of cerebrospinal venous flow in multiple sclerosis patients and controls. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 1483-1493	7.3	6
100	Changes in intracranial venous blood flow and pulsatility in Alzheimer's disease: A 4D flow MRI study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 2149-2158	7.3	35
99	Regional hypoxic cerebral vasodilation facilitated by diameter changes primarily in anterior versus posterior circulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 2025-2034	7.3	23
98	[P3B31]: 4D-FLOW IN THE CEREBRAL ARTERIES PROVIDES UNIQUE INFORMATION ABOUT CEREBROVASCULAR HEALTH BEYOND ISCHEMIC LESION BURDEN AND SIGNIFICANTLY PREDICTS COGNITIVE OUTCOMES <b>2017</b> , 13, P1078-P1079		
97	[IC-P-156]: 4D-FLOW IN THE CEREBRAL ARTERIES PROVIDES UNIQUE INFORMATION ABOUT CEREBROVASCULAR HEALTH BEYOND ISCHEMIC LESION BURDEN AND SIGNIFICANTLY PREDICTS COGNITIVE OUTCOMES <b>2017</b> , 13, P117-P119		
96	Regional Patterns of Pulsatility Index and Wall Shear Stress Across Cerebral Circulation of Adolescents with High Insulin Resistance. <i>FASEB Journal</i> , <b>2017</b> , 31, 836.10	0.9	
95	Time-of-Arrival Parametric Maps and Virtual Bolus Images Derived From Contrast-Enhanced Time-Resolved Radial Magnetic Resonance Angiography Improve the Display of Brain Arteriovenous Malformation Vascular Anatomy. <i>Investigative Radiology</i> , <b>2016</b> , 51, 706-713	10.1	5
94	Accelerated Time-Resolved Contrast-Enhanced Magnetic Resonance Angiography of Dural Arteriovenous Fistulas Using Highly Constrained Reconstruction of Sparse Cerebrovascular Data Sets. <i>Investigative Radiology</i> , <b>2016</b> , 51, 365-71	10.1	10
93	Quantitative cerebrovascular 4D flow MRI at rest and during hypercapnia challenge. <i>Magnetic Resonance Imaging</i> , <b>2016</b> , 34, 422-8	3.3	20

92	Neurovascular 4DFlow MRI (Phase Contrast MRA): emerging clinical applications. <i>Neurovascular Imaging</i> , <b>2016</b> , 2,		13
91	Phase unwrapping in 4D MR flow with a 4D single-step laplacian algorithm. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 43, 833-42	5.6	32
90	4D flow MRI for intracranial hemodynamics assessment in Alzheimer's disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2016</b> , 36, 1718-1730	7.3	55
89	Non-contrast-enhanced MRA of renal artery stenosis: validation against DSA in a porcine model. <i>European Radiology</i> , <b>2016</b> , 26, 547-55	8	23
88	Accuracy of model-based tracking of knee kinematics and cartilage contact measured by dynamic volumetric MRI. <i>Medical Engineering and Physics</i> , <b>2016</b> , 38, 1131-5	2.4	15
87	Longitudinal Monitoring of Hepatic Blood Flow before and after TIPS by Using 4D-Flow MR Imaging. <i>Radiology</i> , <b>2016</b> , 281, 574-582	20.5	21
86	Emerging Applications of Abdominal 4D Flow MRI. <i>American Journal of Roentgenology</i> , <b>2016</b> , 207, 58-66	5.4	29
85	Accelerating 4D flow MRI by exploiting vector field divergence regularization. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 115-25	4.4	18
84	Fast contrast-enhanced 4D MRA and 4D flow MRI using constrained reconstruction (HYPRFlow): potential applications for brain arteriovenous malformations. <i>American Journal of Neuroradiology</i> , <b>2015</b> , 36, 1049-55	4.4	24
83	Exercise cardiac MR assessment of diastolic function. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17,	6.9	78
82	Hemodynamic study of TCPC using in vivo and in vitro 4D Flow MRI and numerical simulation. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 1325-30	2.9	22
81	Fast 4D flow MRI intracranial segmentation and quantification in tortuous arteries. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 1458-64	5.6	36
80	Interest of HYPR flow dynamic MRA for characterization of cerebral arteriovenous malformations: comparison with TRICKS MRA and catheter DSA. <i>European Radiology</i> , <b>2015</b> , 25, 3230-7	8	10
79	4D flow cardiovascular magnetic resonance consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17, 72	6.9	446
78	Hemodynamic assessment in a child with renovascular hypertension using time-resolved three-dimensional cine phase-contrast MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 41, 165-8	5.6	8
77	Measurements of wall shear stress and aortic pulse wave velocity in swine with familial hypercholesterolemia. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 41, 1475-85	5.6	5
76	Intracranial Arterial 4D-Flow is Associated with Metrics of Brain Health and Alzheimer's Disease. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , <b>2015</b> , 1, 420-428	5.2	21
75	Respiratory-induced venous blood flow effects using flexible retrospective double-gating. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 211-6	5.6	16

74	Non-invasive measurement using cardiovascular magnetic resonance of changes in pulmonary artery stiffness with exercise. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17, 109	6.9	32
73	Four-dimensional flow assessment of pulmonary artery flow and wall shear stress in adult pulmonary arterial hypertension: results from two institutions. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1904-13	4.4	94
72	Impaired regulation of portal venous flow in response to a meal challenge as quantified by 4D flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 1009-17	5.6	36
71	Ventricular kinetic energy may provide a novel noninvasive way to assess ventricular performance in patients with repaired tetralogy of Fallot. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2015</b> , 149, 1339-47	1.5	49
70	Use of three-dimensional time-resolved phase-contrast magnetic resonance imaging with vastly undersampled isotropic projection reconstruction to assess renal blood flow in a renal cell carcinoma patient treated with sunitinib: a case report. <i>BMC Research Notes</i> , <b>2014</b> , 7, 527	2.3	3
69	Reproducibility of cerebrospinal venous blood flow and vessel anatomy with the use of phase contrast-vastly undersampled isotropic projection reconstruction and contrast-enhanced MRA. <i>American Journal of Neuroradiology</i> , <b>2014</b> , 35, 999-1006	4.4	23
68	Advanced technologies applied to physiopathological analysis of central nervous system aneurysms and vascular malformations. <i>Diagnostic and Interventional Imaging</i> , <b>2014</b> , 95, 1187-93	5.4	9
67	Cerebrospinal fluid flow impedance is elevated in Type I Chiari malformation. <i>Journal of Biomechanical Engineering</i> , <b>2014</b> , 136, 021012	2.1	25
66	Low Cost Magnetic Resonance Imaging-Compatible Stepper Exercise Device for Use in Cardiac Stress Tests. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2014</b> , 8, 0450021-450028	1.3	5
65	MR selective flow-tracking cartography: a postprocessing procedure applied to four-dimensional flow MR imaging for complete characterization of cranial dural arteriovenous fistulas. <i>Radiology</i> , <b>2014</b> , 270, 261-8	20.5	15
64	Effect of temporal resolution on 4D flow MRI in the portal circulation. <i>Journal of Magnetic Resonance Imaging</i> , <b>2014</b> , 39, 819-26	5.6	22
63	Effect of temporal resolution on 4D flow MRI in the portal circulation. <i>Journal of Magnetic Resonance Imaging</i> , <b>2014</b> , 39, spcone-spcone	5.6	1
62	Does aneurysmal wall enhancement on vessel wall MRI help to distinguish stable from unstable intracranial aneurysms?. <i>Stroke</i> , <b>2014</b> , 45, 3704-6	6.7	166
61	Non-invasive assessment of cardiac function and pulmonary vascular resistance in an canine model of acute thromboembolic pulmonary hypertension using 4D flow cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2014</b> , 16, 23	6.9	22
60	Review of MRI-based measurements of pulse wave velocity: a biomarker of arterial stiffness. <i>Cardiovascular Diagnosis and Therapy</i> , <b>2014</b> , 4, 193-206	2.6	98
59	Adaptive retrospective correction of motion artifacts in cranial MRI with multicoil three-dimensional radial acquisitions. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 1094-103	4.4	31
58	Measurement of tibiofemoral kinematics using highly accelerated 3D radial sampling. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 1310-6	4.4	30
57	Repeatability and internal consistency of abdominal 2D and 4D phase contrast MR flow measurements. <i>Academic Radiology</i> , <b>2013</b> , 20, 699-704	4.3	59

56	In vivo validation of 4D flow MRI for assessing the hemodynamics of portal hypertension. <i>Journal of Magnetic Resonance Imaging</i> , <b>2013</b> , 37, 1100-8	5.6	71
55	Quantification of thoracic blood flow using volumetric magnetic resonance imaging with radial velocity encoding: in vivo validation. <i>Investigative Radiology</i> , <b>2013</b> , 48, 819-25	10.1	38
54	Aortic pulse wave velocity measurements with undersampled 4D flow-sensitive MRI: comparison with 2D and algorithm determination. <i>Journal of Magnetic Resonance Imaging</i> , <b>2013</b> , 37, 853-9	5.6	43
53	Measuring pulsatile flow in cerebral arteries using 4D phase-contrast MR imaging. <i>American Journal of Neuroradiology</i> , <b>2013</b> , 34, 1740-5	4.4	49
52	4D flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2012</b> , 36, spcone-spcone	5.6	3
51	4D flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2012</b> , 36, 1015-36	5.6	433
50	4D cardiovascular magnetic resonance velocity mapping of alterations of right heart flow patterns and main pulmonary artery hemodynamics in tetralogy of Fallot. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2012</b> , 14, 16	6.9	104
49	Noninvasive pressure measurement with 4D phase contrast MRI in patients with aortic coarctations. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2012</b> , 14,	6.9	1
48	Repeatability and internal consistency of abdominal 2D and 4D PC MR flow measurements. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2012</b> , 14,	6.9	1
47	Comparison of divergence-free algorithms for 3D MRI with three-directional velocity encoding. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2012</b> , 14,	6.9	4
46	High resolution three-dimensional cine phase contrast MRI of small intracranial aneurysms using a stack of stars k-space trajectory. <i>Journal of Magnetic Resonance Imaging</i> , <b>2012</b> , 35, 518-27	5.6	40
45	Four-dimensional phase contrast MRI With accelerated dual velocity encoding. <i>Journal of Magnetic Resonance Imaging</i> , <b>2012</b> , 35, spcone-spcone	5.6	2
44	Four-dimensional phase contrast MRI with accelerated dual velocity encoding. <i>Journal of Magnetic Resonance Imaging</i> , <b>2012</b> , 35, 1462-71	5.6	65
43	Hemodynamic changes in patients with arteriovenous malformations assessed using high-resolution 3D radial phase-contrast MR angiography. <i>American Journal of Neuroradiology</i> , <b>2012</b> , 33, 1565-72	4.4	50
42	Non-Cartesian MR Angiography <b>2012</b> , 169-183		
41	HYPR TOF: time-resolved contrast-enhanced intracranial MR angiography using time-of-flight as the spatial constraint. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 33, 719-23	5.6	4
40	In vivo three-dimensional MR wall shear stress estimation in ascending aortic dilatation. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 33, 589-97	5.6	81
39	Four-dimensional velocity mapping of the hepatic and splanchnic vasculature with radial sampling at 3 tesla: a feasibility study in portal hypertension. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 34, 577-84	5.6	45



38	Time resolved contrast enhanced intracranial MRA using a single dose delivered as sequential injections and highly constrained projection reconstruction (HYPR CE). <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 956-63	4.4	8
37	Comparison of blood velocity measurements between ultrasound Doppler and accelerated phase-contrast MR angiography in small arteries with disturbed flow. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 1755-73	3.8	21
36	Velocity measurements in the middle cerebral arteries of healthy volunteers using 3D radial phase-contrast HYPRFlow: comparison with transcranial Doppler sonography and 2D phase-contrast MR imaging. <i>American Journal of Neuroradiology</i> , <b>2011</b> , 32, 54-9	4.4	38
35	Noninvasive assessment of transstenotic pressure gradients in porcine renal artery stenoses by using vastly undersampled phase-contrast MR angiography. <i>Radiology</i> , <b>2011</b> , 261, 266-73	20.5	51
34	Renal arteries: isotropic, high-spatial-resolution, unenhanced MR angiography with three-dimensional radial phase contrast. <i>Radiology</i> , <b>2011</b> , 258, 254-60	20.5	46
33	Flow characteristics in a canine aneurysm model: a comparison of 4D accelerated phase-contrast MR measurements and computational fluid dynamics simulations. <i>Medical Physics</i> , <b>2011</b> , 38, 6300-12	4.4	23
32	Images in Cardiovascular Medicine. Scimitar syndrome: added value by isotropic flow-sensitive four-dimensional magnetic resonance imaging with PC-VIPR (phase-contrast vastly undersampled isotropic projection reconstruction). <i>Circulation</i> , <b>2010</b> , 121, e434-6	16.7	23
31	Accuracy and reproducibility of phase-contrast MR imaging measurements for CSF flow. <i>American Journal of Neuroradiology</i> , <b>2010</b> , 31, 1331-6	4.4	28
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