

Oliver E Wieben

List of Publications by Citations

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163
papers

4,894
citations

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65
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186
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5,906
ext. citations

5.8
avg, IF

5.44
L-index

#	Paper	IF	Citations
163	4D flow cardiovascular magnetic resonance consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 72	6.9	446
162	4D flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 1015-36	5.6	433
161	Fat and water magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 4-18	5.6	238
160	Does aneurysmal wall enhancement on vessel wall MRI help to distinguish stable from unstable intracranial aneurysms?. <i>Stroke</i> , 2014 , 45, 3704-6	6.7	166
159	Improved 3D phase contrast MRI with off-resonance corrected dual echo VIPR. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1329-36	4.4	147
158	High-resolution MRI in giant cell arteritis: imaging of the wall of the superficial temporal artery. <i>American Journal of Roentgenology</i> , 2005 , 184, 283-7	5.4	146
157	Highly efficient maternal-fetal Zika virus transmission in pregnant rhesus macaques. <i>PLoS Pathogens</i> , 2017 , 13, e1006378	7.6	142
156	Diagnostic value of high-resolution MR imaging in giant cell arteritis. <i>American Journal of Neuroradiology</i> , 2007 , 28, 1722-7	4.4	136
155	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> , 2012 , 14, 16	6.9	104
154	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> , 2018 , 20, 28	6.9	100
153	Review of MRI-based measurements of pulse wave velocity: a biomarker of arterial stiffness. <i>Cardiovascular Diagnosis and Therapy</i> , 2014 , 4, 193-206	2.6	98
152	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> , 2015 , 73, 1904-13	4.4	94
151	In vivo three-dimensional MR wall shear stress estimation in ascending aortic dilatation. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 589-97	5.6	81
150	Exercise cardiac MR assessment of diastolic function. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
149	Cardiac MRI of ischemic heart disease at 3 T: potential and challenges. <i>European Journal of Radiology</i> , 2008 , 65, 15-28	4.7	72
148	In vivo validation of 4D flow MRI for assessing the hemodynamics of portal hypertension. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 1100-8	5.6	71
147	Fast multiecho balanced SSFP metabolite mapping of (1)H and hyperpolarized (13)C compounds. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009 , 22, 251-6	2.8	71

146	Four-dimensional phase contrast MRI with accelerated dual velocity encoding. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 1462-71	5.6	65
145	Improved waveform fidelity using local HYPR reconstruction (HYPR LR). <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 456-62	4.4	63
144	Repeatability and internal consistency of abdominal 2D and 4D phase contrast MR flow measurements. <i>Academic Radiology</i> , 2013 , 20, 699-704	4.3	59
143	4D flow MRI for intracranial hemodynamics assessment in Alzheimer's disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016 , 36, 1718-1730	7.3	55
142	Noninvasive assessment of transstenotic pressure gradients in porcine renal artery stenoses by using vastly undersampled phase-contrast MR angiography. <i>Radiology</i> , 2011 , 261, 266-73	20.5	51
141	Hemodynamic changes in patients with arteriovenous malformations assessed using high-resolution 3D radial phase-contrast MR angiography. <i>American Journal of Neuroradiology</i> , 2012 , 33, 1565-72	4.4	50
140	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> , 2015 , 149, 1339-47	1.5	49
139	Measuring pulsatile flow in cerebral arteries using 4D phase-contrast MR imaging. <i>American Journal of Neuroradiology</i> , 2013 , 34, 1740-5	4.4	49
138	Diffusion-weighted MR imaging in musculoskeletal radiology: applications in trauma, tumors, and inflammation. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2009 , 17, 263-75	1.6	48
137	Noninvasive measurement of intra-aneurysmal pressure and flow pattern using phase contrast with vastly undersampled isotropic projection imaging. <i>American Journal of Neuroradiology</i> , 2007 , 28, 1710-4	4.4	48
136	Renal arteries: isotropic, high-spatial-resolution, unenhanced MR angiography with three-dimensional radial phase contrast. <i>Radiology</i> , 2011 , 258, 254-60	20.5	46
135	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> , 2011 , 34, 577-84	5.6	45
134	Aortic pulse wave velocity measurements with undersampled 4D flow-sensitive MRI: comparison with 2D and algorithm determination. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 853-9	5.6	43
133	Characterization of CSF hydrodynamics in the presence and absence of tonsillar ectopia by means of computational flow analysis. <i>American Journal of Neuroradiology</i> , 2009 , 30, 941-6	4.4	43
132	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> , 2012 , 35, 518-27	5.6	40
131	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> , 2019 , 12, 1020-1029	8.4	39
130	Quantification of thoracic blood flow using volumetric magnetic resonance imaging with radial velocity encoding: in vivo validation. <i>Investigative Radiology</i> , 2013 , 48, 819-25	10.1	38
129	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> , 2011 , 32, 54-9	4.4	38

128	Fast 4D flow MRI intracranial segmentation and quantification in tortuous arteries. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 1458-64	5.6	36
127	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> , 2015 , 42, 1009-17	5.6	36
126	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> , 2017 , 37, 2149-2158	7.3	35
125	High resolution 3T MRI for the assessment of cervical and superficial cranial arteries in giant cell arteritis. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 423-7	5.6	34
124	Phase unwrapping in 4D MR flow with a 4D single-step laplacian algorithm. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 833-42	5.6	32
123	Non-invasive measurement using cardiovascular magnetic resonance of changes in pulmonary artery stiffness with exercise. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 109	6.9	32
122	Adaptive retrospective correction of motion artifacts in cranial MRI with multicoil three-dimensional radial acquisitions. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1094-103	4.4	31
121	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> , 2019 , 20, 1407-1417	4.1	30
120	Measurement of tibiofemoral kinematics using highly accelerated 3D radial sampling. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1310-6	4.4	30
119	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> , 2017 , 37, 2249-2261	7.3	30
118	Classification of premature ventricular complexes using filter bank features, induction of decision trees and a fuzzy rule-based system. <i>Medical and Biological Engineering and Computing</i> , 1999 , 37, 560-5	3.1	30
117	Improved delayed enhanced myocardial imaging with T2-Prep inversion recovery magnetization preparation. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 1280-6	5.6	29
116	Emerging Applications of Abdominal 4D Flow MRI. <i>American Journal of Roentgenology</i> , 2016 , 207, 58-66	5.4	29
115	Accuracy and reproducibility of phase-contrast MR imaging measurements for CSF flow. <i>American Journal of Neuroradiology</i> , 2010 , 31, 1331-6	4.4	28
114	Age-Related Reductions in Cerebrovascular Reactivity Using 4D Flow MRI. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 281	5.3	27
113	Association Between Preterm Birth and Arrested Cardiac Growth in Adolescents and Young Adults. <i>JAMA Cardiology</i> , 2020 , 5, 910-919	16.2	27
112	Fast chemical shift mapping with multiecho balanced SSFP. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2006 , 19, 267-73	2.8	26
111	Cerebrospinal fluid flow impedance is elevated in Type I Chiari malformation. <i>Journal of Biomechanical Engineering</i> , 2014 , 136, 021012	2.1	25

110	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> , 2015 , 36, 1049-55	4.4	24
109	Non-contrast-enhanced MRA of renal artery stenosis: validation against DSA in a porcine model. <i>European Radiology</i> , 2016 , 26, 547-55	8	23
108	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> , 2014 , 35, 999-1006	4.4	23
107	Regional hypoxic cerebral vasodilation facilitated by diameter changes primarily in anterior versus posterior circulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 2025-2034	7.3	23
106	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> , 2010 , 121, e434-6	16.7	23
105	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> , 2011 , 38, 6300-12	4.4	23
104	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> , 2017 , 7, 48-55	5.2	22
103	Hemodynamic study of TCPC using in vivo and in vitro 4D Flow MRI and numerical simulation. <i>Journal of Biomechanics</i> , 2015 , 48, 1325-30	2.9	22
102	Effect of temporal resolution on 4D flow MRI in the portal circulation. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 39, 819-26	5.6	22
101	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> , 2014 , 16, 23	6.9	22
100	Integrated head-thoracic vascular MRI at 3 T: assessment of cranial, cervical and thoracic involvement of giant cell arteritis. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2005 , 18, 193-200	2.8	22
99	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> , 2015 , 1, 420-428	5.2	21
98	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> , 2011 , 56, 1755-73	3.8	21
97	Longitudinal Monitoring of Hepatic Blood Flow before and after TIPS by Using 4D-Flow MR Imaging. <i>Radiology</i> , 2016 , 281, 574-582	20.5	21
96	Quantitative cerebrovascular 4D flow MRI at rest and during hypercapnia challenge. <i>Magnetic Resonance Imaging</i> , 2016 , 34, 422-8	3.3	20
95	Time-resolved 3D MR angiography of the abdomen with a real-time system. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 921-6	4.4	19
94	Flow-independent T(2)-prepared inversion recovery black-blood MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 248-54	5.6	18
93	Single breathhold cardiac CINE imaging with multi-echo three-dimensional hybrid radial SSFP acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 434-40	5.6	18

92	3D time-resolved contrast-enhanced cerebrovascular MR angiography with subsecond frame update times using radial k-space trajectories and highly constrained projection reconstruction. <i>American Journal of Neuroradiology</i> , 2007 , 28, 2001-4	4.4	18
91	Accelerating 4D flow MRI by exploiting vector field divergence regularization. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 115-25	4.4	18
90	Four-dimensional Flow MRI as a Marker for Risk Stratification of Gastroesophageal Varices in Patients with Liver Cirrhosis. <i>Radiology</i> , 2019 , 290, 101-107	20.5	17
89	Respiratory-induced venous blood flow effects using flexible retrospective double-gating. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 211-6	5.6	16
88	Partial Aortic Valve Leaflet Fusion Is Related to Deleterious Alteration of Proximal Aorta Hemodynamics. <i>Circulation</i> , 2019 , 139, 2707-2709	16.7	15
87	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> , 2017 , 27, 5316-5324	8	15
86	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> , 2014 , 270, 261-8	20.5	15
85	Accuracy of model-based tracking of knee kinematics and cartilage contact measured by dynamic volumetric MRI. <i>Medical Engineering and Physics</i> , 2016 , 38, 1131-5	2.4	15
84	CE-MRA of the lower extremities using HYPR stack-of-stars. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 917-23	5.6	14
83	Images in cardiovascular medicine. Magnetic resonance imaging findings in temporal arteritis. <i>Circulation</i> , 2005 , 111, e260	16.7	14
82	Neurovascular 4DFlow MRI (Phase Contrast MRA): emerging clinical applications. <i>Neurovascular Imaging</i> , 2016 , 2,		13
81	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> , 2020 , 19, 366-374	2.9	12
80	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> , 2017 , 46, 595-603	5.6	11
79	Pressure Mapping and Hemodynamic Assessment of Intracranial Dural Sinuses and Dural Arteriovenous Fistulas with 4D Flow MRI. <i>American Journal of Neuroradiology</i> , 2018 , 39, 485-487	4.4	11
78	Uteroplacental and Fetal 4D Flow MRI in the Pregnant Rhesus Macaque. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 534-545	5.6	11
77	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> , 2019 , 81, 1964-1978	4.4	11
76	Interest of HYPR flow dynamic MRA for characterization of cerebral arteriovenous malformations: comparison with TRICKS MRA and catheter DSA. <i>European Radiology</i> , 2015 , 25, 3230-7	8	10
75	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> , 2016 , 51, 365-71	10.1	10

74	Cine flow measurements using phase contrast with undersampled projections: in vitro validation and preliminary results in vivo. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 945-51	5.6	10
73	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> , 2019 , 292, 585-594	20.5	9
72	Advanced technologies applied to physiopathological analysis of central nervous system aneurysms and vascular malformations. <i>Diagnostic and Interventional Imaging</i> , 2014 , 95, 1187-93	5.4	9
71	Hemodynamic assessment in a child with renovascular hypertension using time-resolved three-dimensional cine phase-contrast MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 165-8	5.6	8
70	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> , 2017 , 60, 243-252	4.3	8
69	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> , 2011 , 65, 956-63	4.4	8
68	High-resolution MRI for assessment of middle meningeal artery involvement in giant cell arteritis. <i>Annals of the Rheumatic Diseases</i> , 2009 , 68, 1369-70	2.4	8
67	Evaluation of temporal and spatial characteristics of 2D HYPR processing using simulations. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 1090-8	4.4	8
66	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> , 2019 , 72, 919-929	4.3	7
65	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> , 2020 , 40, e10-e20	9.4	7
64	Differential contribution of cyclooxygenase to basal cerebral blood flow and hypoxic cerebral vasodilation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 318, R468-R479	3.2	7
63	Comparison of ferumoxytol-based cerebral blood volume estimates using quantitative R and R2* relaxometry. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 3072-3081	4.4	6
62	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> , 2018 , 53, 80-86	10.1	6
61	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> , 2017 , 37, 1483-1493	7.3	6
60	Ultrashort TE spectroscopic imaging (UTESI) using complex highly-constrained backprojection with local reconstruction (HYPR LR). <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 127-34	4.4	6
59	Quantitative ferumoxytol-enhanced MRI in pregnancy: A feasibility study in the nonhuman primate. <i>Magnetic Resonance Imaging</i> , 2020 , 65, 100-108	3.3	6
58	Measurements of wall shear stress and aortic pulse wave velocity in swine with familial hypercholesterolemia. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1475-85	5.6	5
57	Feasibility of Cardiovascular Four-dimensional Flow MRI during Exercise in Healthy Participants. <i>Radiology: Cardiothoracic Imaging</i> , 2020 , 2, e190033	8.3	5

56	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> , 2016 , 51, 706-713	10.1	5
55	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> , 2014 , 8, 0450021-450028	1.3	5
54	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> , 2019 , 19, 101	2.9	5
53	Non-invasive assessment of mesenteric hemodynamics in patients with suspected chronic mesenteric ischemia using 4D flow MRI. <i>Abdominal Radiology</i> , 2021 , 1	3	5
52	Comparison of divergence-free algorithms for 3D MRI with three-directional velocity encoding. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	4
51	HYPR TOF: time-resolved contrast-enhanced intracranial MR angiography using time-of-flight as the spatial constraint. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 719-23	5.6	4
50	Phase-contrast velocimetry with simultaneous fat/water separation. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1564-74	4.4	4
49	Inflammatory hyperenhancement persists in delayed high-resolution MRI in giant cell arteritis. <i>American Journal of Roentgenology</i> , 2006 , 186, 1197-8	5.4	4
48	Wall Shear Stress Predicts Aortic Dilation in Patients With Bicuspid Aortic Valve. <i>JACC: Cardiovascular Imaging</i> , 2021 ,	8.4	4
47	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> , 2021 , 54, 888-901	5.6	4
46	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> , 2020 , 51, 580-592	5.6	4
45	Measurement of microvascular cerebral blood volume changes over the cardiac cycle with ferumoxytol-enhanced T MRI. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 3588-3598	4.4	3
44	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> , 2014 , 7, 527	2.3	3
43	4D flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, spcone-spcone	5.6	3
42	Rapid comprehensive evaluation of luminography and hemodynamic function with 3D radially undersampled phase contrast imaging MRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4057-60	0.9	3
41	Rapid generation of preview images for real-time 3D MR angiography. <i>Physics in Medicine and Biology</i> , 2002 , 47, N17-24	3.8	3
40	Exaggerated Cardiac Contractile Response to Hypoxia in Adults Born Preterm. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	3
39	MRI assessment of aortic flow in patients with pulmonary arterial hypertension in response to exercise. <i>BMC Medical Imaging</i> , 2018 , 18, 55	2.9	3

38	Impact of ferumoxytol magnetic resonance imaging on the rhesus macaque maternal-fetal interface <i>Biology of Reproduction</i> , 2020 , 102, 434-444	3.9	2
37	Four-dimensional phase contrast MRI With accelerated dual velocity encoding. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, spcone-spcone	5.6	2
36	The Impact of Aging on the Association Between Aortic Stiffness and Cerebral Pulsatility Index.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 821151	5.4	2
35	A phantom study comparing radial trajectories for accelerated cardiac 4D flow MRI against a particle imaging velocimetry reference. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 363-371	4.4	2
34	Nitric oxide synthase inhibition in healthy adults reduces regional and total cerebral macrovascular blood flow and microvascular perfusion. <i>Journal of Physiology</i> , 2021 , 599, 4973-4989	3.9	2
33	Effect of temporal resolution on 4D flow MRI in the portal circulation. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 39, spcone-spcone	5.6	1
32	Noninvasive pressure measurement with 4D phase contrast MRI in patients with aortic coarctations. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	1
31	Repeatability and internal consistency of abdominal 2D and 4D PC MR flow measurements. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	1
30	Clinical Applications of 4D Flow MRI in the Portal Venous System.. <i>Magnetic Resonance in Medical Sciences</i> , 2022 ,	2.9	1
29	Exercise-induced irregular right heart flow dynamics in adolescents and young adults born preterm. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 116	6.9	1
28	Complementary Techniques for Accelerated Imaging 2007 , 91-103		1
27	Cardiorespiratory Fitness Associates with Cerebral Vessel Pulsatility in a Cohort Enriched with Risk for Alzheimer's Disease. <i>Brain Plasticity</i> , 2020 , 5, 175-184	3.5	1
26	Dynamic FDG PET Imaging to Probe for Cardiac Metabolic Remodeling in Adults Born Premature. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	1
25	Leaflet fusion length is associated with aortic dilation and flow alterations in non-dysfunctional bicuspid aortic valve. <i>European Radiology</i> , 2021 , 31, 9262-9272	8	1
24	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> , 2021 , 320, H2295-H2304	5.2	1
23	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> , 2021 ,	4.1	1
22	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> , 2022 , 24, 20	6.9	1
21	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> , 2020 , 19, 287-289	2.9	0

20	Abdominal applications of quantitative 4D flow MRI. <i>Abdominal Radiology</i> , 2021 , 1	3	o
19	Altered Right Ventricular Filling at Four-dimensional Flow MRI in Young Adults Born Prematurely. <i>Radiology: Cardiothoracic Imaging</i> , 2021 , 3, e200618	8.3	o
18	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> , 2021 , 1	3.9	o
17	Decreased ventricular size and mass mediate the reduced exercise capacity in adolescents and adults born premature. <i>Early Human Development</i> , 2021 , 160, 105426	2.2	o
16	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> , 2021 , 16, e0245878	3.7	o
15	Fully automated intracardiac 4D flow MRI post-processing using deep learning for biventricular segmentation.. <i>European Radiology</i> , 2022 , 1	8	o
14	Characterization of mesenteric and portal hemodynamics using 4D flow MRI: the effects of meals and diurnal variation.. <i>Abdominal Radiology</i> , 2022 , 1	3	o
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