

# Oliver E Wieben

## List of Publications by Year in descending order

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177  
papers

6,563  
citations

70961

41  
h-index

74018

75  
g-index

186  
all docs

186  
docs citations

186  
times ranked

6609  
citing authors

#	ARTICLE	IF	CITATIONS
1	4D flow cardiovascular magnetic resonance consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 72.	1.6	642
2	4D flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 1015-1036.	1.9	583
3	Fat and water magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 4-18.	1.9	291
4	Does Aneurysmal Wall Enhancement on Vessel Wall MRI Help to Distinguish Stable From Unstable Intracranial Aneurysms?. <i>Stroke</i> , 2014, 45, 3704-3706.	1.0	209
5	Highly efficient maternal-fetal Zika virus transmission in pregnant rhesus macaques. <i>PLoS Pathogens</i> , 2017, 13, e1006378.	2.1	201
6	High-Resolution MRI in Giant Cell Arteritis: Imaging of the Wall of the Superficial Temporal Artery. <i>American Journal of Roentgenology</i> , 2005, 184, 283-287.	1.0	199
7	Diagnostic Value of High-Resolution MR Imaging in Giant Cell Arteritis. <i>American Journal of Neuroradiology</i> , 2007, 28, 1722-1727.	1.2	186
8	Improved 3D phase contrast MRI with off-resonance corrected dual echo VIPR. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1329-1336.	1.9	168
9	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.	1.6	160
10	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.	1.6	129
11	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, 1904-1913.	1.9	116
12	Review of MRI-based measurements of pulse wave velocity: a biomarker of arterial stiffness. <i>Cardiovascular Diagnosis and Therapy</i> , 2014, 4, 193-206.	0.7	110
13	In vivo three-dimensional MR wall shear stress estimation in ascending aortic dilatation. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 589-597.	1.9	97
14	In vivo validation of 4D flow MRI for assessing the hemodynamics of portal hypertension. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 1100-1108.	1.9	93
15	Cardiac MRI of ischemic heart disease at 3T: Potential and challenges. <i>European Journal of Radiology</i> , 2008, 65, 15-28.	1.2	83
16	Fast multiecho balanced SSFP metabolite mapping of <sup>1</sup> H and hyperpolarized <sup>13</sup> C compounds. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 251-256.	1.1	83
17	Four-dimensional phase contrast MRI with accelerated dual velocity encoding. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 1462-1471.	1.9	81
18	4D flow MRI for intracranial hemodynamics assessment in Alzheimer's disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1718-1730.	2.4	77

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19	Influence of Aortic Dilatation on the Regional Aortic Stiffness of Bicuspid Aortic Valve Assessed by 4-Dimensional Flow Cardiac Magnetic Resonance. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1020-1029.	2.3	77
20	Repeatability and Internal Consistency of Abdominal 2D and 4D Phase Contrast MR Flow Measurements. <i>Academic Radiology</i> , 2013, 20, 699-704.	1.3	70
21	Improved waveform fidelity using local HYPR reconstruction (HYPR LR). <i>Magnetic Resonance in Medicine</i> , 2008, 59, 456-462.	1.9	68
22	Measuring Pulsatile Flow in Cerebral Arteries Using 4D Phase-Contrast MR Imaging. <i>American Journal of Neuroradiology</i> , 2013, 34, 1740-1745.	1.2	68
23	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, 1565-1572.	1.2	64
24	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.	2.4	64
25	Phase unwrapping in 4D MR flow with a 4D single-step laplacian algorithm. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 833-842.	1.9	62
26	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, 1339-1347.	0.4	61
27	Noninvasive Assessment of Transstenotic Pressure Gradients in Porcine Renal Artery Stenoses by Using Vastly Undersampled Phase-Contrast MR Angiography. <i>Radiology</i> , 2011, 261, 266-273.	3.6	56
28	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, 853-859.	1.9	56
29	Association Between Preterm Birth and Arrested Cardiac Growth in Adolescents and Young Adults. <i>JAMA Cardiology</i> , 2020, 5, 910.	3.0	56
30	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, 1710-1714.	1.2	55
31	Fast 4D flow MRI intracranial segmentation and quantification in tortuous arteries. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1458-1464.	1.9	53
32	Diffusion-Weighted MR Imaging in Musculoskeletal Radiology: Applications in Trauma, Tumors, and Inflammation. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2009, 17, 263-275.	0.6	52
33	Renal Arteries: Isotropic, High-Spatial-Resolution, Unenhanced MR Angiography with Three-dimensional Radial Phase Contrast. <i>Radiology</i> , 2011, 258, 254-260.	3.6	51
34	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, 518-527.	1.9	51
35	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, 577-584.	1.9	50
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> , 2011, 32, 54-59.	1.2	49

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37	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, 1009-1017.	1.9	48
38	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, 941-946.	1.2	46
39	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.	2.4	46
40	Age-Related Reductions in Cerebrovascular Reactivity Using 4D Flow MRI. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 281.	1.7	46
41	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.	0.5	46
42	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, 423-427.	1.9	44
43	Quantification of Thoracic Blood Flow Using Volumetric Magnetic Resonance Imaging With Radial Velocity Encoding. <i>Investigative Radiology</i> , 2013, 48, 819-825.	3.5	44
44	Wall Shear Stress Predicts Aortic Dilatation in Patients With Bicuspid Aortic Valve. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 46-56.	2.3	44
45	Longitudinal Monitoring of Hepatic Blood Flow before and after TIPS by Using 4D-Flow MR Imaging. <i>Radiology</i> , 2016, 281, 574-582.	3.6	41
46	Adaptive retrospective correction of motion artifacts in cranial MRI with multicoil three-dimensional radial acquisitions. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1094-1103.	1.9	39
47	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.	1.6	39
48	Emerging Applications of Abdominal 4D Flow MRI. <i>American Journal of Roentgenology</i> , 2016, 207, 58-66.	1.0	39
49	Improved delayed enhanced myocardial imaging with T <sub>2</sub> -Prep inversion recovery magnetization preparation. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 1280-1286.	1.9	38
50	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.	3.6	38
51	Accuracy and Reproducibility of Phase-Contrast MR Imaging Measurements for CSF Flow. <i>American Journal of Neuroradiology</i> , 2010, 31, 1331-1336.	1.2	36
52	Cerebrospinal Fluid Flow Impedance is Elevated in Type I Chiari Malformation. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 021012.	0.6	35
53	Hemodynamic study of TCPC using in vivo and in vitro 4D Flow MRI and numerical simulation. <i>Journal of Biomechanics</i> , 2015, 48, 1325-1330.	0.9	35
54	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, 560-565.	1.6	34

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55	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, 6300-6312.	1.6	34
56	Measurement of tibiofemoral kinematics using highly accelerated 3D radial sampling. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1310-1316.	1.9	32
57	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.	1.1	31
58	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, 1755-1773.	1.6	31
59	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, 1049-1055.	1.2	31
60	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.	1.2	31
61	Fast chemical shift mapping with multiecho balanced SSFP. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2006, 19, 267-273.	1.1	28
62	Effect of temporal resolution on 4D flow MRI in the portal circulation. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 819-826.	1.9	28
63	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.	1.6	28
64	Intracranial arterial four-dimensional 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.	1.2	28
65	Non-contrast-enhanced MRA of renal artery stenosis: validation against DSA in a porcine model. <i>European Radiology</i> , 2016, 26, 547-555.	2.3	28
66	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.	2.4	28
67	Scimitar Syndrome. <i>Circulation</i> , 2010, 121, e434-6.	1.6	27
68	Accelerating 4D flow MRI by exploiting vector field divergence regularization. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 115-125.	1.9	24
69	Partial Aortic Valve Leaflet Fusion Is Related to Deleterious Alteration of Proximal Aorta Hemodynamics. <i>Circulation</i> , 2019, 139, 2707-2709.	1.6	24
70	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.	1.2	23
71	Quantitative cerebrovascular 4D flow MRI at rest and during hypercapnia challenge. <i>Magnetic Resonance Imaging</i> , 2016, 34, 422-428.	1.0	23
72	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.	1.9	23

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73	Time-resolved 3D MR angiography of the abdomen with a real-time system. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 921-926.	1.9	22
74	Respiratory-induced venous blood flow effects using flexible retrospective double-gating. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 211-216.	1.9	22
75	Uteroplacental and Fetal 4D Flow MRI in the Pregnant Rhesus Macaque. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 534-545.	1.9	22
76	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.	2.3	21
77	Flow-independent T <sub>2</sub> -prepared inversion recovery black-blood MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 248-254.	1.9	20
78	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, 261-268.	3.6	20
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.	1.2	20
80	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, 2001-2004.	1.2	19
81	Single breathhold cardiac CINE imaging with multi-echo three-dimensional hybrid radial SSFP acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 434-440.	1.9	19
82	Neurovascular 4DFlow MRI (Phase Contrast MRA): emerging clinical applications. <i>Neurovascular Imaging</i> , 2016, 2, .	2.4	19
83	Magnetic Resonance Imaging Findings in Temporal Arteritis. <i>Circulation</i> , 2005, 111, e260.	1.6	18
84	Low and Oscillatory Wall Shear Stress Is Not Related to Aortic Dilation in Patients With Bicuspid Aortic Valve. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, e10-e20.	1.1	16
85	<sc>Pseudo-Enhancement</sc> in Intracranial Aneurysms on <sc>Black-Blood MRI</sc>: Effects of Flow Rate, Spatial Resolution, and Additional Flow Suppression. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 888-901.	1.9	16
86	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.	1.6	16
87	Accuracy of model-based tracking of knee kinematics and cartilage contact measured by dynamic volumetric MRI. <i>Medical Engineering and Physics</i> , 2016, 38, 1131-1135.	0.8	15
88	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.	1.9	15
89	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.	1.2	15
90	CE-MRA of the lower extremities using HYPR stack-of-stars. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 917-923.	1.9	14

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91	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.	1.2	14
92	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.	1.1	14
93	The Impact of Aging on the Association Between Aortic Stiffness and Cerebral Pulsatility Index. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 821151.	1.1	14
94	Advanced technologies applied to physiopathological analysis of central nervous system aneurysms and vascular malformations. <i>Diagnostic and Interventional Imaging</i> , 2014, 95, 1187-1193.	1.8	13
95	Quantitative ferumoxytol-enhanced MRI in pregnancy: A feasibility study in the nonhuman primate. <i>Magnetic Resonance Imaging</i> , 2020, 65, 100-108.	1.0	13
96	High-resolution MRI for assessment of middle meningeal artery involvement in giant cell arteritis. <i>Annals of the Rheumatic Diseases</i> , 2009, 68, 1369-1370.	0.5	12
97	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.	3.6	12
98	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.	1.4	12
99	Non-invasive assessment of mesenteric hemodynamics in patients with suspected chronic mesenteric ischemia using 4D flow MRI. <i>Abdominal Radiology</i> , 2022, 47, 1684-1698.	1.0	12
100	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.	0.9	11
101	Exaggerated Cardiac Contractile Response to Hypoxia in Adults Born Preterm. <i>Journal of Clinical Medicine</i> , 2021, 10, 1166.	1.0	11
102	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.	1.3	11
103	Clinical Applications of 4D Flow MRI in the Portal Venous System. <i>Magnetic Resonance in Medical Sciences</i> , 2022, 21, 340-353.	1.1	11
104	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, 945-951.	1.9	10
105	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, 3230-3237.	2.3	10
106	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, 365-371.	3.5	10
107	Abdominal applications of quantitative 4D flow MRI. <i>Abdominal Radiology</i> , 2022, 47, 3229-3250.	1.0	10
108	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, 956-963.	1.9	9



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109	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, 165-168.	1.9	9
110	Measurements of wall shear stress and aortic pulse wave velocity in swine with familial hypercholesterolemia. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1475-1485.	1.9	9
111	Feasibility of Cardiovascular Four-dimensional Flow MRI during Exercise in Healthy Participants. <i>Radiology: Cardiothoracic Imaging</i> , 2020, 2, e190033.	0.9	9
112	Aortic flow dynamics and stiffness in Loey's-Dietz syndrome patients: a comparison with healthy volunteers and Marfan syndrome patients. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, , .	0.5	9
113	Evaluation of temporal and spatial characteristics of 2D HYPR processing using simulations. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1090-1098.	1.9	8
114	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.	0.4	8
115	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.	2.4	8
116	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.	3.5	8
117	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.	1.9	8
118	Fully automated intracardiac 4D flow MRI post-processing using deep learning for biventricular segmentation. <i>European Radiology</i> , 2022, 32, 5669-5678.	2.3	8
119	Ultrashort TE spectroscopic imaging (UTESI) using complex highly-constrained backprojection with local reconstruction (HYPR LR). <i>Magnetic Resonance in Medicine</i> , 2009, 62, 127-134.	1.9	7
120	Comparison of ferumoxytol-based cerebral blood volume estimates using quantitative $R_{2^*}$ and relaxometry. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 3072-3081.	1.9	7
121	Comparison of divergence-free algorithms for 3D MRI with three-directional velocity encoding. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	1.6	6
122	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.	3.5	6
123	Characterization of mesenteric and portal hemodynamics using 4D flow MRI: the effects of meals and diurnal variation. <i>Abdominal Radiology</i> , 2022, 47, 2106-2114.	1.0	6
124	Phase-contrast velocimetry with simultaneous fat/water separation. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1564-1574.	1.9	5
125	MRI assessment of aortic flow in patients with pulmonary arterial hypertension in response to exercise. <i>BMC Medical Imaging</i> , 2018, 18, 55.	1.4	5
126	Impact of ferumoxytol magnetic resonance imaging on the rhesus macaque maternal-fetal interface. <i>Biology of Reproduction</i> , 2020, 102, 434-444.	1.2	5



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127	Measurement of microvascular cerebral blood volume changes over the cardiac cycle with ferumoxytol-enhanced T <sub>2</sub> * MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3588-3598.	1.9	5
128	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.	1.9	5
129	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.	1.5	5
130	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.	1.1	5
131	Exercise-induced irregular right heart flow dynamics in adolescents and young adults born preterm. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 116.	1.6	5
132	Inflammatory Hyperenhancement Persists in Delayed High-Resolution MRI in Giant Cell Arteritis. <i>American Journal of Roentgenology</i> , 2006, 186, 1197-1198.	1.0	4
133	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, 719-723.	1.9	4
134	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.	0.6	4
135	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.	2.3	4
136	Multimodality Deep Phenotyping Methods to Assess Mechanisms of Poor Right Ventricular-Pulmonary Artery Coupling. <i>Function</i> , 2022, 3, .	1.1	4
137	Rapid generation of preview images for real-time 3D MR angiography. <i>Physics in Medicine and Biology</i> , 2002, 47, N17-N24.	1.6	3
138	Rapid comprehensive evaluation of luminography and hemodynamic function with 3d radially undersampled phase contrast imaging MRI. , 2009, 2009, 4057-60.		3
139	4D flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, spcone-spcone.	1.9	3
140	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> , 2022, 17, 199-210.	1.7	3
141	Decreased ventricular size and mass mediate the reduced exercise capacity in adolescents and adults born premature. <i>Early Human Development</i> , 2021, 160, 105426.	0.8	3
142	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.	1.9	3
143	Four-dimensional phase contrast MRI With accelerated dual velocity encoding. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, spcone-spcone.	1.9	2
144	Effect of temporal resolution on 4D flow MRI in the portal circulation. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, spcone-spcone.	1.9	2

#	ARTICLE	IF	CITATIONS
145	Vertebral artery hypoplasia influences age-related differences in blood flow of the large intracranial arteries. <i>Aging Brain</i> , 2021, 1, 100019.	0.7	2
146	Dynamic FDG PET Imaging to Probe for Cardiac Metabolic Remodeling in Adults Born Premature. <i>Journal of Clinical Medicine</i> , 2021, 10, 1301.	1.0	2
147	MR Angiography Series: Abdominal and Pelvic MR Angiography. <i>Radiographics</i> , 2022, , 210224.	1.4	2
148	Virtual injections using 4D flow MRI with displacement corrections and constrained probabilistic streamlines. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2495-2511.	1.9	2
149	Noninvasive pressure measurement with 4D phase contrast MRI in patients with aortic coarctations. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	1.6	1
150	Repeatability and internal consistency of abdominal 2D and 4D PC MR flow measurements. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	1.6	1
151	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.	1.1	1
152	Altered Right Ventricular Filling at Four-dimensional Flow MRI in Young Adults Born Prematurely. <i>Radiology: Cardiothoracic Imaging</i> , 2021, 3, e200618.	0.9	1
153	Comparison of Aneurismal Hemodynamics Between 4-D Accelerated Phase-Contrast MR Angiography and Computational Fluid Dynamics Simulations: Initial Experience in a Canine Aneurysm Model. , 2010, , .		1
154	Development of a PET/MRI exercise stress test for determining cardiac glucose dependence in pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2022, 12, e12025.	0.8	1
155	Diffuse Myocardial Fibrosis at Cardiac MRI in Young Adults Born Prematurely: A Cross-sectional Cohort Study. <i>Radiology: Cardiothoracic Imaging</i> , 2022, 4, .	0.9	1
156	Retrospective registration-based MRI motion correction with interleaved radial trajectories. , 2011, , .		0
157	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, spcone-spcone.	1.9	0
158	In vivo validation of 4D flow MRI for assessing the hemodynamics of portal hypertension. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, spcone-spcone.	1.9	0
159	Relation of Cerebrospinal Fluid Flow Impedance and Cerebellar Herniation in Type I Chiari Malformation. , 2013, , .		0
160	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, spcone-spcone.	1.9	0
161	Exercise cardiac MR assessment of diastolic function. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, .	1.6	0
162	[P3â€“331]: 4Dâ€“FLOW IN THE CEREBRAL ARTERIES PROVIDES UNIQUE INFORMATION ABOUT CEREBROVASCULAR HEALTH BEYOND ISCHEMIC LESION BURDEN AND SIGNIFICANTLY PREDICTS COGNITIVE OUTCOMES. <i>Alzheimer's and Dementia</i> , 2017, 13, P1078.	0.4	0

#	ARTICLE	IF	CITATIONS
163	[156]: 4D FLOW IN THE CEREBRAL ARTERIES PROVIDES UNIQUE INFORMATION ABOUT CEREBROVASCULAR HEALTH BEYOND ISCHEMIC LESION BURDEN AND SIGNIFICANTLY PREDICTS COGNITIVE OUTCOMES. Alzheimer's and Dementia, 2017, 13, P117.	0.4	0
164	P1456: ASSOCIATION OF CARDIOVASCULAR RISK FACTORS WITH MICRO- AND MACROVASCULAR CEREBRAL FUNCTION IN WHITES AND AFRICAN AMERICANS. Alzheimer's and Dementia, 2018, 14, P491.	0.4	0
165	IC109: LOWER ARTERIAL BLOOD FLOW AND HIGHER PULSATILITY INDEX ARE ASSOCIATED WITH NEURONAL INJURY. Alzheimer's and Dementia, 2019, 15, P93.	0.4	0
166	Association of cerebral white matter disease with cardiovascular risk factors, amyloid accumulation, and cognition. Alzheimer's and Dementia, 2020, 16, e046518.	0.4	0
167	Magnitude of Change in Middle Cerebral Artery Cross-Sectional Area is Associated with Cardiorespiratory Fitness. FASEB Journal, 2021, 35, .	0.2	0
168	Coronary Endothelial Wall Shear Stress: Another Piece of the Puzzle?. Radiology, 2021, 300, 557-558.	3.6	0
169	Improved CT Surveillance of Thoracic Aortic Aneurysm Growth. Radiology, 2022, 302, 226-227.	3.6	0
170	A Computational Study of Unsteady Resistance to Cerebrospinal Fluid Flow in Type I Chiari Malformation. , 2010, , .		0
171	Non-Cartesian MR Angiography. , 2012, , 169-183.		0
172	Regional Patterns of Pulsatility Index and Wall Shear Stress Across Cerebral Circulation of Adolescents with High Insulin Resistance. FASEB Journal, 2017, 31, 836.10.	0.2	0
173	Adults born preterm exhibit biventricular hypercontractility and inefficiency. FASEB Journal, 2018, 32, 901.4.	0.2	0
174	Influence of Vertebral Artery Hypoplasia on Cerebral Blood Flow Regulation. FASEB Journal, 2019, 33, 528.13.	0.2	0
175	Flow Quantification with MRI. Advances in Magnetic Resonance Technology and Applications, 2020, 1, 931-951.	0.0	0
176	The Impact of Aging on the Association between Aortic Stiffness and Cerebral Pulsatility Index. FASEB Journal, 2022, 36, .	0.2	0
177	Effect of Cyclooxygenase Inhibitor on Hypoxia Stimulated Cerebral Blood Flow Using Arterial Spin Labeling Magnetic Resonance. FASEB Journal, 2022, 36, .	0.2	0