Christopher K Macgowan

List of Publications by Year
in descending order

132	3,096	159585 30	197818 49
papers	citations	h-index	g-index

135	135	135	2694
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reduced Fetal Cerebral Oxygen Consumption Is Associated With Smaller Brain Size in Fetuses With Congenital Heart Disease. Circulation, 2015, 131, 1313-1323.	1.6	405
2	Reference Ranges of Blood Flow in the Major Vessels of the Normal Human Fetal Circulation at Term by Phase-Contrast Magnetic Resonance Imaging. Circulation: Cardiovascular Imaging, 2014, 7, 663-670.	2.6	132
3	The hemodynamics of late-onset intrauterine growth restriction by MRI. American Journal of Obstetrics and Gynecology, 2016, 214, 367.e1-367.e17.	1.3	111
4	Feasibility of quantification of the distribution of blood flow in the normal human fetal circulation using CMR: a cross-sectional study. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 82.	3.3	100
5	Anatomical and Functional Evaluation of Pulmonary Veins in Children by Magnetic Resonance Imaging. Journal of the American College of Cardiology, 2007, 49, 993-1002.	2.8	96
6	Differential Regurgitation in Branch Pulmonary Arteries After Repair of Tetralogy of Fallot. Circulation, 2003, 107, 2938-2943.	1.6	95
7	Metric optimized gating for fetal cardiac MRI. Magnetic Resonance in Medicine, 2010, 64, 1304-1314.	3.0	82
8	Cerebral oxygen delivery is reduced in newborns with congenital heart disease. Journal of Thoracic and Cardiovascular Surgery, 2016, 152, 1095-1103.	0.8	67
9	Comparative imaging of differential pulmonary blood flow in patients with congenital heart disease: magnetic resonance imaging versus lung perfusion scintigraphy. Pediatric Radiology, 2005, 35, 295-301.	2.0	63
10	Fetal circulation in left-sided congenital heart disease measured by cardiovascular magnetic resonance: a caseâ€“control study. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 65.	3.3	58
11	Three-dimensional Tricuspid Annular Function Provides Insight into the Mechanisms of Tricuspid Valve Regurgitation in Classic Hypoplastic Left Heart Syndrome. Journal of the American Society of Echocardiography, 2006, 19, 391-402.	2.8	55
12	Effect of Propofol Anesthesia and Continuous Positive Airway Pressure on Upper Airway Size and Configuration in Infants. Anesthesiology, 2006, 105, 45-50.	2.5	53
13	How is pulmonary arterial blood flow affected by pulmonary venous obstruction in children? A phase-contrast magnetic resonance study. Pediatric Radiology, 2005, 35, 580-586.	2.0	51
14	Dynamic imaging of the fetal heart using metric optimized gating. Magnetic Resonance in Medicine, 2013, 70, 1598-1607.	3.0	50
15	Motion compensated cine CMR of the fetal heart using radial undersampling and compressed sensing. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 29.	3.3	50
16	Nonâ€invasive evaluation of blood oxygen saturation and hematocrit from T₁ and T₂ relaxation times: Inâ€vitro validation in fetal blood. Magnetic Resonance in Medicine, 2017, 78, 2352-2359.	3.0	48
17	Fetal hemodynamics and cardiac streaming assessed by 4D flow cardiovascular magnetic resonance in fetal sheep. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 8.	3.3	47
18	Fetal Cardiac MRI. Topics in Magnetic Resonance Imaging, 2019, 28, 235-244.	1.2	45

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19	Phase-contrast MR assessment of pulmonary venous blood flow in children with surgically repaired pulmonary veins. Pediatric Radiology, 2003, 33, 607-613.	2.0	43
20	Extent and Localization of Changes in Upper Airway Caliber with Varying Concentrations of Sevoflurane in Children. Anesthesiology, 2006, 105, 1147-1152.	2.5	43
21	Accelerated MRI of the fetal heart using compressed sensing and metric optimized gating. Magnetic Resonance in Medicine, 2017, 77, 2125-2135.	3.0	43
22	Phaseâ€contrast magnetic resonance quantification of normal pulmonary venous return. Journal of Magnetic Resonance Imaging, 2009, 29, 588-594.	3.4	42
23	Normal human and sheep fetal vessel oxygen saturations by T2 magnetic resonance imaging. Journal of Physiology, 2020, 598, 3259-3281.	2.9	42
24	Relaxation properties of human umbilical cord blood at 1.5 Tesla. Magnetic Resonance in Medicine, 2017, 77, 1678-1690.	3.0	40
25	Insight Into Normal Mitral and Tricuspid Annular Dynamics in Pediatrics: A Real-time Three-dimensional Echocardiographic Study. Journal of the American Society of Echocardiography, 2005, 18, 805-814.	2.8	39
26	MRI reveals hemodynamic changes with acute maternal hyperoxygenation in human fetuses with and without congenital heart disease. Prenatal Diagnosis, 2016, 36, 274-281.	2.3	39
27	MRI shows limited mixing between systemic and pulmonary circulations in foetal transposition of the great arteries: a potential cause of in utero pulmonary vascular disease. Cardiology in the Young, 2015, 25, 737-744.	0.8	33
28	In vivo MRI measurement of blood oxygen saturation in children with congenital heart disease. Pediatric Radiology, 2005, 35, 179-185.	2.0	32
29	Brain Sparing in Fetal Mice: BOLD MRI and Doppler Ultrasound Show Blood Redistribution During Hypoxia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1082-1088.	4.3	32
30	Pulse-wave velocity measured in one heartbeat using MR tagging. Magnetic Resonance in Medicine, 2002, 48, 115-121.	3.0	31
31	Observation of nonlinear shear wave propagation using magnetic resonance elastography. Magnetic Resonance in Medicine, 2004, 52, 842-850.	3.0	30
32	Late Gadolinium Enhancement of the right ventricular myocardium: Is it really different from the left ?. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 20.	3.3	29
33	Feasibility of detecting myocardial infarction in the sheep fetus using late gadolinium enhancement CMR imaging. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 69.	3.3	29
34	New advances in fetal cardiovascular magnetic resonance imaging for quantifying the distribution of blood flow and oxygen transport: Potential applications in fetal cardiovascular disease diagnosis and therapy. Echocardiography, 2017, 34, 1799-1803.	0.9	27
35	Fetoâ€and uteroâ€placental vascular adaptations to chronic maternal hypoxia in the mouse. Journal of Physiology, 2018, 596, 3285-3297.	2.9	27
36	Multidimensional fetal flow imaging with cardiovascular magnetic resonance: a feasibility study. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 77.	3.3	27

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37	Human umbilical cord blood relaxation times and susceptibility at 3 <scp>T</scp>. Magnetic Resonance in Medicine, 2018, 79, 3194-3206.	3.0	26
38	Understanding Fetal Hemodynamics Using Cardiovascular Magnetic Resonance Imaging. Fetal Diagnosis and Therapy, 2020, 47, 354-362.	1.4	26
39	Real-time Fourier velocity encoding: An in vivo evaluation. Journal of Magnetic Resonance Imaging, 2005, 21, 297-304.	3.4	25
40	Alteration of diffusion tensor parameters in postmortem brain. Magnetic Resonance Imaging, 2009, 27, 865-870.	1.8	25
41	Assessment of flow distribution in the mouse fetal circulation at late gestation by high-frequency Doppler ultrasound. Physiological Genomics, 2014, 46, 602-614.	2.3	25
42	Maternal hyperoxygenation and foetal cardiac MRI in the assessment of the borderline left ventricle. Cardiology in the Young, 2015, 25, 1214-1217.	0.8	25
43	Feasibility of phase-contrast cine magnetic resonance imaging for measuring blood flow in the sheep fetus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R780-R792.	1.8	24
44	Hemodynamic evaluation of the peripheral pulmonary circulation by cine phase-contrast magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2005, 22, 780-787.	3.4	23
45	Subcutaneous maternal resveratrol treatment increases uterine artery blood flow in the pregnant ewe and increases fetal but not cardiac growth. Journal of Physiology, 2019, 597, 5063-5077.	2.9	23
46	Foetal blood flow measured using phase contrast cardiovascular magnetic resonance â€“ preliminary data comparing 1.5ÂT with 3.0ÂT. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 30.	3.3	22
47	The association between restingâ€state functional magnetic resonance imaging and aortic pulseâ€wave velocity in healthy adults. Human Brain Mapping, 2020, 41, 2121-2135.	3.6	22
48	Phaseâ€Encode reordering to minimize errors caused by motion. Magnetic Resonance in Medicine, 1996, 35, 391-398.	3.0	20
49	Temporal and Spatial Variances in Arterial Spin-Labeling Are Inversely Related to Large-Artery Blood Velocity. American Journal of Neuroradiology, 2017, 38, 1555-1561.	2.4	19
50	Preliminary Experience Using Motion Compensated CINE Magnetic Resonance Imaging to Visualise Fetal Congenital Heart Disease. Circulation: Cardiovascular Imaging, 2018, 11, e007745.	2.6	19
51	Quantification of blood flow in the fetus with cardiovascular magnetic resonance imaging using Doppler ultrasound gating: validation against metric optimized gating. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 74.	3.3	19
52	The utility of MRI for measuring hematocrit in fetal anemia. American Journal of Obstetrics and Gynecology, 2020, 222, 81.e1-81.e13.	1.3	19
53	Longitudinal Brain and Body Growth in Fetuses With and Without Transposition of the Great Arteries. Circulation, 2018, 138, 1368-1370.	1.6	18
54	Differential Response to Injury in Fetal and Adolescent Sheep Hearts in the Immediate Post-myocardial Infarction Period. Frontiers in Physiology, 2019, 10, 208.	2.8	17

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55	Placental vascular abnormalities in the mouse alter umbilical artery wave reflections. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H664-H672.	3.2	17
56	Fetal brain sparing in a mouse model of chronic maternal hypoxia. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1172-1184.	4.3	17
57	Simulation of semilunar valve function: computer-aided design, 3D printing and flow assessment with MR. 3D Printing in Medicine, 2020, 6, 2.	3.1	16
58	An MRI approach to assess placental function in healthy humans and sheep. Journal of Physiology, 2021, 599, 2573-2602.	2.9	16
59	Feasibility of ventricular volumetry by cardiovascular MRI to assess cardiac function in the fetal sheep. Journal of Physiology, 2020, 598, 2557-2573.	2.9	16
60	Optimization of 3D contrast-enhanced pulmonary magnetic resonance angiography in pediatric patients with congenital heart disease. Magnetic Resonance in Medicine, 2005, 54, 207-212.	3.0	15
61	Delayed onset of tricuspid valve flow in repaired tetralogy of Fallot: an additional mechanism of diastolic dysfunction and interventricular dyssynchrony. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 43.	3.3	15
62	Evaluation of Cerebrovascular Impedance and Wave Reflection in Mouse by Ultrasound. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 521-526.	4.3	14
63	Reflected hemodynamic waves influence the pattern of Doppler ultrasound waveforms along the umbilical arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1105-H1112.	3.2	14
64	Wave reflections in the umbilical artery measured by Doppler ultrasound as a novel predictor of placental pathology. EBioMedicine, 2021, 67, 103326.	6.1	14
65	Cerebral arterial and venous blood flow in adolescent multiple sclerosis patients and ageâ€matched controls using phase contrast MRI. Journal of Magnetic Resonance Imaging, 2014, 40, 341-347.	3.4	13
66	Ultrasound detection of altered placental vascular morphology based on hemodynamic pulse wave reflection. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H1021-H1029.	3.2	13
67	A mouse model of antepartum stillbirth. American Journal of Obstetrics and Gynecology, 2017, 217, 443.e1-443.e11.	1.3	12
68	Dynamic MRI of a Large Fetal Cardiac Mass. Radiology, 2019, 290, 288-288.	7.3	11
69	Motion robust respiratoryâ€resolved 3D radial flow MRI and its application in neonatal congenital heart disease. Magnetic Resonance in Medicine, 2020, 83, 535-548.	3.0	11
70	Umbilical vein infusion of prostaglandin I₂ increases ductus venosus shunting of oxygenâ€rich blood but does not increase cerebral oxygen delivery in the fetal sheep. Journal of Physiology, 2020, 598, 4957-4967.	2.9	10
71	Clinical Feasibility of Structural and Functional <scp>MRI</scp> in <scp>Freeâ€Breathing</scp> Neonates and Infants. Journal of Magnetic Resonance Imaging, 2022, 55, 1696-1707.	3.4	10
72	Pulmonary artery pulsatility and effect on vessel diameter assessment in magnetic resonance imaging. European Journal of Radiology, 2014, 83, 378-383.	2.6	9

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73	Effect of maternal betamethasone administration on feto-placental vascular resistance in the mouseâ€. Biology of Reproduction, 2019, 101, 823-831.	2.7	9
74	Technique for comprehensive fetal hepatic blood flow assessment in sheep using 4D flow MRI. Journal of Physiology, 2020, 598, 3555-3567.	2.9	9
75	Fetal Flow Quantification in Great Vessels Using Motionâ€Corrected Radial Phase Contrast MRI : Comparison With Cartesian. Journal of Magnetic Resonance Imaging, 2021, 53, 540-551.	3.4	9
76	Redox ratio in the left ventricle of the growth restricted fetus is positively correlated with cardiac output. Journal of Biophotonics, 2021, 14, e202100157.	2.3	9
77	Fast measurements of the motion and velocity spectrum of blood using MR tagging. Magnetic Resonance in Medicine, 2001, 45, 461-469.	3.0	8
78	Fetal XCMR: a numerical phantom for fetal cardiovascular magnetic resonance imaging. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 29.	3.3	8
79	The Impact of Patch Augmentation on Left Atrioventricular Valve Dynamics in Patients with Atrioventricular Septal Defects: Early and Midterm Follow-up. Journal of the American Society of Echocardiography, 2006, 19, 1382-1392.	2.8	7
80	Sildenafil Acutely Reverses the Hypoxic Pulmonary Vasoconstriction Response of the Newborn Pig. Pediatric Research, 2008, 64, 251-255.	2.3	7
81	Regional pulmonary blood flow: Comparison of dynamic contrastâ€enhanced MR perfusion and phaseâ€contrast MR. Magnetic Resonance in Medicine, 2009, 61, 1249-1254.	3.0	7
82	Automated measurement and classification of pulmonary blood-flow velocity patterns using phase-contrast MRI and correlation analysis. Magnetic Resonance Imaging, 2009, 27, 38-47.	1.8	7
83	Self-gated Fourier velocity encoding. Magnetic Resonance Imaging, 2010, 28, 95-102.	1.8	7
84	Wharton's jelly area and its association with placental morphometry and pathology. Placenta, 2020, 94, 34-38.	1.5	7
85	Quantification of Wave Reflection in the Human Umbilical Artery From Asynchronous Doppler Ultrasound Measurements. IEEE Transactions on Medical Imaging, 2020, 39, 3749-3757.	8.9	7
86	Ultrasound Detection of Abnormal Cerebrovascular Morphology in a Mouse Model of Sickle Cell Disease Based on Wave Reflection. Ultrasound in Medicine and Biology, 2019, 45, 3269-3278.	1.5	6
87	Impact of resveratrolâ€mediated increase in uterine artery blood flow on fetal haemodynamics, blood pressure and oxygenation in sheep. Experimental Physiology, 2021, 106, 1166-1180.	2.0	6
88	Intrauterine growth restriction alters the activity of drug metabolising enzymes in the maternal-placental-fetal unit. Life Sciences, 2021, 285, 120016.	4.3	6
89	Understanding Early Hemophilic Arthropathy in Children and Adolescents Through MRI T 2 Mapping. Journal of Magnetic Resonance Imaging, 2021, 53, 827-837.	3.4	5
90	Sex differences in modulation of fetoplacental vascular resistance in growth-restricted mouse fetuses following betamethasone administration: comparisons with human fetuses. American Journal of Obstetrics & Gynecology MFM, 2021, 3, 100251.	2.6	5

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91	Update on fetal cardiovascular magnetic resonance and utility in congenital heart disease. Journal of Congenital Cardiology, 2021, 5, .	0.5	5
92	An inductive method to measure mechanical excitation spectra for MRI elastography. Concepts in Magnetic Resonance, 2004, 21B, 32-39.	1.3	4
93	Magnetic resonance evaluation of pulmonary circulation in children. Progress in Pediatric Cardiology, 2006, 22, 211-223.	0.4	4
94	No Evidence for Impairment of Venous Hemodynamics in Children or Young Adults with Pediatric-Onset Multiple Sclerosis. American Journal of Neuroradiology, 2013, 34, 2366-2372.	2.4	4
95	MRI reveals hemodynamic changes with acute maternal hyperoxygenation in human fetuses with and without congenital heart disease. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O55.	3.3	4
96	Accelerated phase contrast measurements of fetal blood flow using compressed sensing. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P30.	3.3	4
97	Differential gene responses 3 days following infarction in the fetal and adolescent sheep heart. Physiological Genomics, 2020, 52, 143-159.	2.3	4
98	Seeing the fetus from a DOHaD perspective: discussion paper from the advanced imaging techniques of DOHaD applications workshop held at the 2019 DOHaD World Congress. Journal of Developmental Origins of Health and Disease, 2021, 12, 153-167.	1.4	4
99	Sex differences in uterine artery Doppler during gestation in pregnancies complicated by placental dysfunction. Biology of Sex Differences, 2021, 12, 19.	4.1	4
100	Impact of maternal late gestation undernutrition on surfactant maturation, pulmonary blood flow and oxygen delivery measured by magnetic resonance imaging in the sheep fetus. Journal of Physiology, 2021, 599, 4705-4724.	2.9	4
101	Impact of fetal haemodynamics on surgical and neurodevelopmental outcomes in patients with Ebstein anomaly and tricuspid valve dysplasia. Cardiology in the Young, 2022, 32, 1768-1779.	0.8	4
102	Fetal cardiovascular blood flow MRI: techniques and applications. British Journal of Radiology, 0, , .	2.2	4
103	Motion measurements from individual MR signals using volume localization. Journal of Magnetic Resonance Imaging, 1999, 9, 670-678.	3.4	3
104	Cerebral oxygen delivery in newborns with congenital heart disease by phase contrast MRI. Journal of Cardiovascular Magnetic Resonance, 2015, 17, M9.	3.3	3
105	Fetal haemodynamic assessment in a case of late-onset intrauterine growth restriction by phase contrast MRI and T2 mapping. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P27.	3.3	3
106	Interpretation of Wave Reflections in the Umbilical Arterial Segment of the Feto-Placental Circulation: Computational Modeling of the Feto-Placental Arterial Tree. IEEE Transactions on Biomedical Engineering, 2021, 68, 3647-3658.	4.2	3
107	Sex differences in fetal Doppler parameters during gestation. Biology of Sex Differences, 2021, 12, 26.	4.1	3
108	Open or closed: Changes in ductus arteriosus flow patterns at birth using 4D flow MRI in newborn piglets. Physiological Reports, 2021, 9, e14999.	1.7	3

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109	Visualizing water clearance in the lung with MRI. Magnetic Resonance in Medicine, 2008, 60, 230-235.	3.0	2
110	Cardiopulmonary magnetic resonance imaging in children after lung transplantation: Preliminary observations. Journal of Heart and Lung Transplantation, 2011, 30, 1294-1298.	0.6	2
111	The absolute and relative sizes of the brains and bodies of fetuses with different forms of congenital heart disease and intrauterine growth restriction. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P151.	3.3	2
112	Reduced combined ventricular output and increased oxygen extraction fraction in a fetus with complete heart block demonstrated by MRI. HeartRhythm Case Reports, 2016, 2, 164-168.	0.4	2
113	Response to Letter Regarding Article, â€œReduced Fetal Cerebral Oxygen Consumption Is Associated With Smaller Brain Size in Fetuses With Congenital Heart Diseaseâ€. Circulation, 2016, 133, e8.	1.6	2
114	Determination of fetal heart rate shortâ€term variation from umbilical artery Doppler waveforms. Ultrasound in Obstetrics and Gynecology, 2021, 57, 70-74.	1.7	2
115	Human Fetal Blood Flow Quantification with Magnetic Resonance Imaging and Motion Compensation. Journal of Visualized Experiments, 2021, , .	0.3	2
116	Doppler Ultrasound of the Fetal Descending Aorta: An Objective Tool to Assess Placental Blood Flow Resistance in Pregnancies With Discordant Umbilical Arteries. Journal of Ultrasound in Medicine, 2022, 41, 899-905.	1.7	2
117	Dynamic MRI of the fetal myocardium. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	3.3	1
118	MRI reveals increased superior vena caval blood flow in human fetuses with congenital heart disease, abnormal placental pathology and neonatal brain white matter changes. Journal of Cardiovascular Magnetic Resonance, 2015, 17, .	3.3	1
119	Reduced fetal cerebral oxygen consumption is associated with abnormal white matter in newborns with congenital heart disease. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P201.	3.3	1
120	Combined ventricular output and oxygen delivery are reduced while oxygen extraction fraction is increased in fetuses with Ebstein's Anomaly by MRI. Journal of Cardiovascular Magnetic Resonance, 2016, 18, O71.	3.3	1
121	Serial prenatal and post-natal brain MRI demonstrates impact of congenital heart disease and cardiac surgery on brain growth and maturity. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P156.	3.3	1
122	Magnetic Resonance Imaging: A New Tool to Optimize the Prediction of Fetal Anemia?. Fetal Diagnosis and Therapy, 2019, 46, 257-265.	1.4	1
123	Non-invasive Measurement of Wave Reflections in the Human Umbilical Artery Using Ultrasound. , 2019, , .		1
124	Non-Invasive Ultrasound Detection of Cerebrovascular Changes in a Mouse Model of Traumatic Brain Injury. Journal of Neurotrauma, 2020, 37, 2157-2168.	3.4	1
125	Effect of propofol and CPAP on airway size and configuration in infants. Canadian Journal of Anaesthesia, 2005, 52, A58-A58.	1.6	0
126	Dose-related effect of sevoflurane on airway size and configuration. Canadian Journal of Anaesthesia, 2006, 53, 26422-26422.	1.6	0

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127	Measurement of pulmonary arterial pulse wave reflection from single-slice phase-contrast and steady-state free precession MRI. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	3.3	0
128	Assessment of MRI parameters for studying brain development in newborns with congenital heart disease. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P205.	3.3	0
129	Fetal blood flow measured using phase contrast MRI-comparison of image quality and flow volume at 1.5T with 3.0T. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O60.	3.3	0
130	High resolution multislice imaging of the fetal heart using iGRASP and MOG. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P44.	3.3	0
131	Accelerated MRI of the fetal heart using compressed sensing and metric optimized gating. Magnetic Resonance in Medicine, 2017, 77, C1-C1.	3.0	0
132	Imaging Pulmonary Microvascular Flow. , 2009, , 57-64.		0