

Alec Welsh

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.

85
papers

1,393
citations

21
h-index

34
g-index

102
ext. papers

1,601
ext. citations

4.2
avg. IF

4.4
L-index

#	Paper	IF	Citations
85	Development and evaluation of an online questionnaire to identify women at high and low risk of developing gestational diabetes mellitus.. <i>BMC Pregnancy and Childbirth</i> , 2022 , 22, 321	3.2	0
84	The diagnostic indicators of gestational diabetes mellitus from second trimester to birth: a systematic review. <i>Clinical Diabetes and Endocrinology</i> , 2021 , 7, 19	4.7	2
83	The Influence of Hyperoxygenation on Fetal Brain Vascularity Measured Using 3D Power Doppler Ultrasound and the Index "Fractional Moving Blood Volume". <i>Fetal Diagnosis and Therapy</i> , 2021 , 48, 651-659	2.4	0
82	Multi-Parametric Fusion of 3D Power Doppler Ultrasound for Fetal Kidney Segmentation Using Fully Convolutional Neural Networks. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 2050-2057	7.3	2
81	Short-Term Effects of Dexamethasone versus Betamethasone on Ultrasonic Measures of Fetal Well-Being: Cohort from a Blinded, Randomized Trial. <i>Fetal Diagnosis and Therapy</i> , 2021 , 48, 526-540	2.4	0
80	Health-care providers' concern regarding smoking cessation pharmacotherapies during pregnancy: Calls to a teratology information service. <i>Drug and Alcohol Review</i> , 2020 , 39, 223-231	3.2	
79	Feasibility of image registration and fusion for evaluation of structure and perfusion of the entire second trimester placenta by three-dimensional power Doppler ultrasound. <i>Placenta</i> , 2020 , 94, 13-19	3.4	4
78	Effect of maternal corticosteroid provision on middle cerebral artery peak systolic velocity readings in the potentially anaemic fetus prior to planned intrauterine transfusion. <i>Australasian Journal of Ultrasound in Medicine</i> , 2020 , 23, 52-58	0.6	
77	Short-term outcomes following intrauterine transfusions for fetal anaemia: A retrospective cohort study. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2020 , 60, 738-745	1.7	0
76	Four-Dimensional Ultrasound for Evaluating Newborn Cardiac Output: A Pilot Study of Healthy Infants. <i>Neonatology</i> , 2019 , 116, 115-122	4	
75	Maternal intramuscular dexamethasone versus betamethasone before preterm birth (ASTEROID): a multicentre, double-blind, randomised controlled trial. <i>The Lancet Child and Adolescent Health</i> , 2019 , 3, 769-780	14.5	29
74	Isolated 'soft signs' of fetal choroid plexus cysts or echogenic intracardiac focus - consequences of their continued reporting. <i>Australasian Journal of Ultrasound in Medicine</i> , 2019 , 22, 253-264	0.6	1
73	Fetal myocardial performance index in assessment and management of small-for-gestational-age fetus: a cohort and nested case-control study. <i>Ultrasound in Obstetrics and Gynecology</i> , 2018 , 51, 225-235	5.8	10
72	Use of the Myocardial Performance Index in Decreased Fetal Movement Assessment: A Case-Control Study. <i>Fetal Diagnosis and Therapy</i> , 2018 , 43, 208-217	2.4	1
71	Applying spatial-temporal image correlation to the fetal kidney: Repeatability of 3D segmentation and volumetric impedance indices. <i>Australasian Journal of Ultrasound in Medicine</i> , 2018 , 21, 169-178	0.6	1
70	Automation of the Fetal Right Myocardial Performance Index to Optimise Repeatability. <i>Fetal Diagnosis and Therapy</i> , 2018 , 44, 28-35	2.4	4
69	Spatio-temporal Image Correlation (STIC): Estimation of Heart Rate Using STIC Compared with 2-D Pulsed Wave Doppler in a Flow Phantom. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2507-2508	3.5	

68	Novel spatial-temporal image correlation derived indices of tissue vascular impedance: A variability study. <i>Australasian Journal of Ultrasound in Medicine</i> , 2017 , 20, 115-122	0.6	
67	Beat-to-beat variability of fetal myocardial performance index. <i>Ultrasound in Obstetrics and Gynecology</i> , 2017 , 50, 215-220	5.8	4
66	Basal ganglia perfusion in the preterm infant during transition. <i>Pediatric Research</i> , 2016 , 80, 573-6	3.2	1
65	Evaluation of an automated fetal myocardial performance index. <i>Ultrasound in Obstetrics and Gynecology</i> , 2016 , 48, 496-503	5.8	8
64	Why such differing stances? A review of position statements on home birth from professional colleges. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2016 , 123, 376-82	3.7	12
63	Audit of immediate outcomes for MCDA twins following laser therapy for twin-twin transfusion syndrome at the NSW Fetal Therapy Centre. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2016 , 56, 289-94	1.7	6
62	Reference Ranges for Neonatal Basal Ganglia Perfusion as Measured by Fractional Moving Blood Volume. <i>Neonatology</i> , 2016 , 109, 91-6	4	2
61	Spatiotemporal Image Correlation and Volumetric Impedance Indices in the Neonatal Brain: Proof of Concept and Preliminary Reproducibility. <i>Journal of Ultrasound in Medicine</i> , 2016 , 35, 505-10	2.9	2
60	Outcomes of stage I TTTS or liquor discordant twins: a single-centre review. <i>Prenatal Diagnosis</i> , 2016 , 36, 507-14	3.2	3
59	Review of the correlation between blood flow velocity and polycythemia in the fetus, neonate and adult: appropriate diagnostic levels need to be determined for twin anemia-polycythemia sequence. <i>Ultrasound in Obstetrics and Gynecology</i> , 2016 , 47, 152-7	5.8	7
58	The Aortic Isthmus: A Significant yet Underexplored Watershed of the Fetal Circulation. <i>Fetal Diagnosis and Therapy</i> , 2016 , 40, 81-93	2.4	9
57	The (Pulsed-Wave) Doppler Fetal Myocardial Performance Index: Technical Challenges, Clinical Applications and Future Research. <i>Fetal Diagnosis and Therapy</i> , 2015 , 38, 1-13	2.4	29
56	Monitoring intrahepatic cholestasis of pregnancy using the fetal myocardial performance index: a cohort study. <i>Ultrasound in Obstetrics and Gynecology</i> , 2015 , 46, 571-8	5.8	16
55	Is There a Measurable Difference between the Left and Right Modified Myocardial Performance Indices, and Does This Change to Reflect Unilateral Myocardial Dysfunction in Pathology?. <i>Fetal Diagnosis and Therapy</i> , 2015 , 38, 288-95	2.4	7
54	Limited evidence for calcium supplementation in preeclampsia prevention: a meta-analysis and systematic review. <i>Hypertension in Pregnancy</i> , 2015 , 34, 181-203	2	15
53	Lessons to be learnt in managing the breech presentation at term: an 11-year single-centre retrospective study. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2014 , 54, 333-9	1.7	21
52	Long term developmental outcomes of pre-school age children following laser surgery for twin-to-twin transfusion syndrome. <i>Early Human Development</i> , 2014 , 90, 837-42	2.2	15
51	Selection of the sub-noise gain level for acquisition of VOCAL data sets: a reliability study. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 562-7	3.5	6

50	Maternal morbidity of women receiving birth center care in New South Wales: a matched-pair analysis using linked health data. <i>Birth</i> , 2014 , 41, 268-75	3.1	11
49	Development of normal gestational ranges for the right myocardial performance index in the Australian population with three alternative caliper placements. <i>Fetal Diagnosis and Therapy</i> , 2014 , 36, 272-81	2.4	15
48	Caseload midwifery care versus standard maternity care for women of any risk: M@NGO, a randomised controlled trial. <i>Lancet, The</i> , 2013 , 382, 1723-32	4.0	181
47	Randomised controlled trials and clinical maternity care: moving on from intention-to-treat and other simplistic analyses of efficacy. <i>BMC Pregnancy and Childbirth</i> , 2013 , 13, 15	3.2	7
46	Re: assessing repeatability of 3D Doppler indices obtained by static 3D and STIC power Doppler: a combined in-vivo/in-vitro flow phantom study. <i>Ultrasound in Obstetrics and Gynecology</i> , 2013 , 42, 608	5.8	3
45	The short term fetal cardiovascular effects of corticosteroids used in obstetrics. <i>Australasian Journal of Ultrasound in Medicine</i> , 2013 , 16, 135-141	0.6	5
44	Inapplicability of FMBV to VOCAL indices and the amplitude origin of power Doppler. <i>Ultrasound in Obstetrics and Gynecology</i> , 2013 , 41, 473-4	5.8	3
43	Inapplicability of fractional moving blood volume technique to standardize Virtual Organ Computer-aided AnaLysis indices for quantified three-dimensional power Doppler. <i>Ultrasound in Obstetrics and Gynecology</i> , 2012 , 40, 688-92	5.8	10
42	Use of four-dimensional analysis of power Doppler perfusion indices to demonstrate cardiac cycle pulsatility in fetoplacental flow. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 1345-51	3.5	14
41	Spatiotemporal image correlation-derived volumetric Doppler impedance indices from spherical samples of the placenta: intraobserver reliability and correlation with conventional umbilical artery Doppler indices. <i>Ultrasound in Obstetrics and Gynecology</i> , 2012 , 40, 431-6	5.8	22
40	Collaboration in maternity care is achievable and practical. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2012 , 52, 576-81	1.7	13
39	Evaluation of neonatal regional cerebral perfusion using power Doppler and the index fractional moving blood volume. <i>Neonatology</i> , 2012 , 101, 254-9	4	9
38	Australian maternity reform through clinical redesign. <i>Australian Health Review</i> , 2012 , 36, 169-75	1.8	23
37	Reproducibility of constituent time intervals of right and left fetal modified myocardial performance indices on pulsed Doppler echocardiography: a short report. <i>Ultrasound in Obstetrics and Gynecology</i> , 2012 , 39, 654-8	5.8	21
36	Influence of power Doppler gain setting on Virtual Organ Computer-aided AnaLysis indices in vivo: can use of the individual sub-noise gain level optimize information?. <i>Ultrasound in Obstetrics and Gynecology</i> , 2012 , 40, 75-80	5.8	36
35	Three-dimensional Doppler evaluation of single spherical samples from the placenta: intra- and interobserver reliability. <i>Ultrasound in Obstetrics and Gynecology</i> , 2012 , 40, 200-6	5.8	37
34	Fetal left modified myocardial performance index: technical refinements in obtaining pulsed-Doppler waveforms. <i>Ultrasound in Obstetrics and Gynecology</i> , 2012 , 39, 421-9	5.8	32
33	Development of Australian reference ranges for the left fetal modified myocardial performance index and the influence of caliper location on time interval measurement. <i>Fetal Diagnosis and Therapy</i> , 2012 , 32, 87-95	2.4	31

32	Technical considerations for measurement of the fetal left modified myocardial performance index. <i>Fetal Diagnosis and Therapy</i> , 2012 , 31, 76-80	2.4	16
31	Evaluation of conventional Doppler fetal cardiac function parameters: E/A ratios, outflow tracts, and myocardial performance index. <i>Fetal Diagnosis and Therapy</i> , 2012 , 32, 22-9	2.4	95
30	The "volumetric" pulsatility index as evaluated by spatiotemporal imaging correlation (STIC): a preliminary description of a novel technique, its application to the endometrium and an evaluation of its reproducibility. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 2160-8	3.5	38
29	A common sleep disorder in pregnancy: restless legs syndrome and its predictors. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2011 , 51, 262-4	1.7	33
28	The ethics of obtaining consent in labour for research. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2011 , 51, 485-92	1.7	12
27	Comprehension of power Doppler quantification and a missed opportunity for landmark research. <i>Ultrasound in Obstetrics and Gynecology</i> , 2011 , 37, 373-4; author reply 374-5	5.8	3
26	A randomised controlled trial of caseload midwifery care: M@NGO (Midwives @ New Group practice Options). <i>BMC Pregnancy and Childbirth</i> , 2011 , 11, 82	3.2	35
25	Immediate outcome of twin-twin transfusion syndrome following selective laser photocoagulation of communicating vessels at the NSW Fetal Therapy Centre. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2010 , 50, 112-9	1.7	25
24	Reproducibility of regional placental vascularity/perfusion measurement using 3D power Doppler. <i>Ultrasound in Obstetrics and Gynecology</i> , 2010 , 36, 202-9	5.8	55
23	OP08.05: Fetal left myocardial performance (Tei) index: improving reproducibility using wall motion filter setting and peak of valve clicks. <i>Ultrasound in Obstetrics and Gynecology</i> , 2010 , 36, 75-75	5.8	
22	OP08.06: Reproducibility of component time intervals measured by fetal pulse Doppler echocardiography for the fetal modified myocardial performance index (Mod-MPI). <i>Ultrasound in Obstetrics and Gynecology</i> , 2010 , 36, 75-75	5.8	1
21	Opinion: integration of diagnostic and management perspectives for placenta accreta. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2009 , 49, 578-87	1.7	16
20	OP11.08: Assessment of regional placental vascularity/perfusion using 3D power Doppler and the index fractional moving blood volume. <i>Ultrasound in Obstetrics and Gynecology</i> , 2009 , 34, 97-97	5.8	
19	Guidelines for the use of recombinant activated factor VII in massive obstetric haemorrhage. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2008 , 48, 12-6	1.7	74
18	Residual pelvic fluid using two types of drains at laparoscopy: a randomized controlled trial. <i>Obstetrics and Gynecology</i> , 2008 , 111, 1293-7	4.9	2
17	A caution regarding standardization of power Doppler to measure perfusion in placental tissue. <i>Ultrasound in Obstetrics and Gynecology</i> , 2008 , 31, 111-2; author reply 112-3	5.8	15
16	Methodological considerations for the correct application of quantitative three-dimensional power Doppler angiography. <i>Ultrasound in Obstetrics and Gynecology</i> , 2008 , 32, 115-7; author reply 117-8	5.8	25
15	Hyperemesis, gastrointestinal and liver disorders in pregnancy. <i>Current Obstetrics & Gynaecology</i> , 2005 , 15, 123-131		11

14	Standardization of power Doppler quantification of blood flow in the human fetus using the aorta and inferior vena cava. <i>Ultrasound in Obstetrics and Gynecology</i> , 2005 , 26, 33-43	5.8	14
13	Fetal cystoscopy in the management of fetal obstructive uropathy: experience in a single European centre. <i>Prenatal Diagnosis</i> , 2003 , 23, 1033-41	3.2	80
12	Cervical screening for preterm delivery. <i>Current Opinion in Obstetrics and Gynecology</i> , 2002 , 14, 195-202	2.4	32
11	Development of three-dimensional power Doppler ultrasound imaging of fetoplacental vasculature. <i>Ultrasound in Medicine and Biology</i> , 2001 , 27, 1161-70	3.5	19
10	Picture of the month. Assessment of fetal renal perfusion by power Doppler digital analysis. <i>Ultrasound in Obstetrics and Gynecology</i> , 2001 , 17, 89-91	5.8	11
9	Quantitative digital analysis of regional placental perfusion using power Doppler in placental abruption. <i>Ultrasound in Obstetrics and Gynecology</i> , 2001 , 17, 203-8	5.8	15
8	Regional variation in power Doppler perfusion measurements within normal placenta. <i>Ultrasound in Obstetrics and Gynecology</i> , 2001 , 18, F08-F08	5.8	2
7	Freehand three-dimensional Doppler demonstration of monochorionic vascular anastomoses in vivo: a preliminary report. <i>Ultrasound in Obstetrics and Gynecology</i> , 2001 , 18, 317-24	5.8	11
6	F63Ultrasound guided fetal cystoscopic therapy for posterior urethral valves (PUV). <i>Ultrasound in Obstetrics and Gynecology</i> , 2000 , 16, 50-50	5.8	
5	Ex vivo delineation of placental angioarchitecture with the microbubble contrast agent Levovist. <i>American Journal of Obstetrics and Gynecology</i> , 2000 , 182, 966-71	6.4	6
4	Twin fetuses: intravascular microbubble US contrast agent administration--early experience. <i>Radiology</i> , 2000 , 214, 724-8	20.5	33
3	F80Three dimensional ultrasound reconstruction of monochorionic placental anastomoses. <i>Ultrasound in Obstetrics and Gynecology</i> , 2000 , 16, 54-54	5.8	
2	Antenatal uterine rupture in a primigravida (associated with undisclosed previous uterine surgery). <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 1999 , 39, 368-70	1.7	3
1	ENDOSCOPIC MANAGEMENT OF FETAL OBSTRUCTIVE UROPATHY. <i>Journal of Urology</i> , 1999 , 108	2.5	8