Gordon N Stevenson

List of Publications by Year
in descending order

39 papers	677 citations	623188 14 h-index	580395 25 g-index
44 all docs	44 docs citations	44 times ranked	725 citing authors

#	Article	IF	Citations
1	Three-Dimensional Power Doppler Ultrasonography for Diagnosing Abnormally Invasive Placenta and Quantifying the Risk. Obstetrics and Gynecology, 2015, 126, 645-653.	1.2	86
2	Fully automated, real-time 3D ultrasound segmentation to estimate first trimester placental volume using deep learning. JCI Insight, 2018, 3, .	2.3	70
3	Monitoring of Cerebrovascular Reactivity for Determination of Optimal Blood Pressure in Preterm Infants. Journal of Pediatrics, 2015, 167, 86-91.	0.9	50
4	Understanding abnormal uterine artery Doppler waveforms: A novel computational model to explore potential causes within the utero-placental vasculature. Placenta, 2018, 66, 74-81.	0.7	50
5	Measurement of spiral artery jets: general principles and differences observed in small‐for‐gestational‐age pregnancies. Ultrasound in Obstetrics and Gynecology, 2012, 40, 171-178.	0.9	43
6	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?. Ultrasound in Obstetrics and Gynecology, 2012, 40, 75-80.	0.9	42
7	3-D Ultrasound Segmentation of the Placenta Using the Random Walker Algorithm: Reliability and Agreement. Ultrasound in Medicine and Biology, 2015, 41, 3182-3193.	0.7	36
8	Rapid Calculation of Standardized Placental Volume at 11 to 13 Weeks and the Prediction of Small for Gestational Age Babies. Ultrasound in Medicine and Biology, 2013, 39, 253-260.	0.7	32
9	Developmental changes in spiral artery blood flow in the human placenta observed with colour Doppler ultrasonography. Placenta, 2012, 33, 782-787.	0.7	31
10	A Technique for the Estimation of Fractional Moving Blood Volume by Using Three-dimensional Power Doppler US. Radiology, 2015, 274, 230-237.	3.6	30
11	Automatic 3D ultrasound segmentation of the first trimester placenta using deep learning. , 2017, , .		27
12	Automated Visualization and Quantification of Spiral Artery Blood Flow Entering the First-Trimester Placenta, Using 3-D Power Doppler Ultrasound. Ultrasound in Medicine and Biology, 2018, 44, 522-531.	0.7	19
13	Three-dimensional US Fractional Moving Blood Volume: Validation of Renal Perfusion Quantification. Radiology, 2019, 293, 460-468.	3.6	19
14	Fully Automated 3-D Ultrasound Segmentation of the Placenta, Amniotic Fluid, and Fetus for Early Pregnancy Assessment. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2038-2047.	1.7	18
15	3D fractional moving blood volume (3D-FMBV) demonstrates decreased first trimester placental vascularity in pre-eclampsia but not the term, small for gestation age baby. PLoS ONE, 2017, 12, e0178675.	1.1	15
16	Use of Four-Dimensional Analysis of Power Doppler Perfusion Indices to Demonstrate Cardiac Cycle Pulsatility in Fetoplacental Flow. Ultrasound in Medicine and Biology, 2012, 38, 1345-1351.	0.7	14
17	Effect of malaria on placental volume measured using three-dimensional ultrasound: a pilot study. Malaria Journal, 2012, 11, 5.	0.8	14
18	Inapplicability of fractional moving blood volume technique to standardize Virtual Organ Computer‐aided AnaLysis indices for quantified three‐dimensional power Doppler. Ultrasound in Obstetrics and Gynecology, 2012, 40, 688-692.	0.9	12

#	Article	IF	Citations
19	Multi-Parametric Fusion of 3D Power Doppler Ultrasound for Fetal Kidney Segmentation Using Fully Convolutional Neural Networks. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2050-2057.	3.9	11
20	Convolutional Neural Networks for Automated Fetal Cardiac Assessment using 4D B-Mode Ultrasound. , 2019, , .		10
21	Comparison of 2-D and 3-D Estimates of Placental Volume in Early Pregnancy. Ultrasound in Medicine and Biology, 2015, 41, 734-740.	0.7	9
22	OP10.09: A novel semi-automated (SA) technique for 3D ultrasound measurement of placental volume. Ultrasound in Obstetrics and Gynecology, 2010, 36, 82-82.	0.9	7
23	Elsevier Trophoblast Research Award Lecture: Searching for an early pregnancy 3-D morphometric ultrasound marker to predict fetal growth restriction. Placenta, 2013, 34, S85-S89.	0.7	6
24	Reference Ranges for Neonatal Basal Ganglia Perfusion as Measured by Fractional Moving Blood Volume. Neonatology, 2016, 109, 91-96.	0.9	5
25	Feasibility of image registration and fusion for evaluation of structure and perfusion of the entire second trimester placenta by three-dimensional power Doppler ultrasound. Placenta, 2020, 94, 13-19.	0.7	5
26	Inapplicability of <scp>FMBV</scp> to <scp>VOCAL</scp> indices and the amplitude origin of power Doppler. Ultrasound in Obstetrics and Gynecology, 2013, 41, 473-474.	0.9	3
27	3D ultrasound file reading and coordinate transformations. Journal of Open Source Software, 2019, 4, 1063.	2.0	3
28	Surface parameterisation of the utero/placental interface using 3D power doppler ultrasound. , 2011, , .		2
29	Basal ganglia perfusion in the preterm infant during transition. Pediatric Research, 2016, 80, 573-576.	1.1	2
30	Applying spatial–temporal image correlation to the fetal kidney: Repeatability of 3D segmentation and volumetric impedance indices. Australasian Journal of Ultrasound in Medicine, 2018, 21, 169-178.	0.3	1
31	Four-Dimensional Ultrasound for Evaluating Newborn Cardiac Output: A Pilot Study of Healthy Infants. Neonatology, 2019, 116, 115-122.	0.9	1
32	The Influence of Hyperoxygenation on Fetal Brain Vascularity Measured Using 3D Power Doppler Ultrasound and the Index "Fractional Moving Blood Volume". Fetal Diagnosis and Therapy, 2021, 48, 1-9.	0.6	1
33	OP06.05: Placental volume in malaria infected pregnancies. Ultrasound in Obstetrics and Gynecology, 2011, 38, 72-73.	0.9	0
34	OP27.05: The need to standardise Virtual Organ Computer-aided AnaLysis (VOCAL) power Doppler indices to the sub-bloom gain (SBG) level. Ultrasound in Obstetrics and Gynecology, 2011, 38, 135-135.	0.9	0
35	Spatio-temporal Image Correlation (STIC): Estimation of Heart Rate Using STIC Compared with 2-D Pulsed Wave Doppler in a Flow Phantom. Ultrasound in Medicine and Biology, 2017, 43, 2507-2508.	0.7	0
36	Novel spatial–temporal image correlation derived indices of tissue vascular impedance: A variability study. Australasian Journal of Ultrasound in Medicine, 2017, 20, 115-122.	0.3	0

#	Article	IF	Citations
37	An evaluation of correlation and variability of 2D Pulsed Waved Doppler (PWD)-derived indices at varying flow rates: A phantom study. Ultrasound in Medicine and Biology, 2019, 45, S14.	0.7	0
38	Evaluation of Neonatal Cerebral Perfusion Using Three‑dimensional Power Doppler Ultrasound Volumes. Acta Paediatrica, International Journal of Paediatrics, 2021, , .	0.7	0
39	A Machine Learning Framework for Fully Automatic 3D Fetal Cardiac Ultrasound Evaluation. , 2022, , .		0