Ronald T Wakai

List of Publications by Year in descending order

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Ρονλίο Τ Μλγλι

#	Article	IF	CITATIONS
1	A compact, high performance atomic magnetometer for biomedical applications. Physics in Medicine and Biology, 2013, 58, 8153-8161.	1.6	223
2	Fetal cardiac arrhythmia detection and in utero therapy. Nature Reviews Cardiology, 2010, 7, 277-290.	6.1	106
3	Optical magnetometer array for fetal magnetocardiography. Optics Letters, 2012, 37, 2247.	1.7	97
4	In Utero Diagnosis of Long QT Syndrome by Magnetocardiography. Circulation, 2013, 128, 2183-2191.	1.6	92
5	Theta Oscillations and Human Navigation: A Magnetoencephalography Study. Journal of Cognitive Neuroscience, 2002, 14, 70-78.	1.1	90
6	Prenatal diagnosis and In Utero treatment of Torsades de Pointes associated with congenital long QT syndrome. American Journal of Cardiology, 2003, 91, 1395-1398.	0.7	89
7	Electrophysiological Characteristics of Fetal Atrioventricular Block. Journal of the American College of Cardiology, 2008, 51, 77-84.	1.2	88
8	Parametric modulation of an atomic magnetometer. Applied Physics Letters, 2006, 89, 134105.	1.5	87
9	Cortical patch basis model for spatially extended neural activity. IEEE Transactions on Biomedical Engineering, 2006, 53, 1740-1754.	2.5	77
10	Diagnosis and Treatment of Fetal Arrhythmia. American Journal of Perinatology, 2014, 31, 617-628.	0.6	75
11	Low ost Fetal Magnetocardiography: A Comparison of Superconducting Quantum Interference Device and Optically Pumped Magnetometers. Journal of the American Heart Association, 2019, 8, e013436.	1.6	69
12	Fetal auditory evoked responses detected by magnetoencephalography. American Journal of Obstetrics and Gynecology, 1996, 174, 1484-1486.	0.7	66
13	Magnetocardiography for fetal arrhythmias. Heart Rhythm, 2008, 5, 1073-1076.	0.3	62
14	Noninvasive in utero assessment of PR and QRS intervals from the fetal magnetocardiogram. Early Human Development, 1999, 54, 235-243.	0.8	61
15	Assessment of fetal neurodevelopment via fetal magnetocardiography. Experimental Neurology, 2004, 190, 65-71.	2.0	57
16	Fetal Cardiac Repolarization Abnormalities. American Journal of Cardiology, 2006, 98, 491-496.	0.7	56
17	Spatiotemporal properties of the fetal magnetocardiogram. American Journal of Obstetrics and Gynecology, 1994, 170, 770-776.	0.7	54
18	Developmentally regulated SCN5A splice variant potentiates dysfunction of a novel mutation associated with severe fetal arrhythmia. Heart Rhythm, 2012, 9, 590-597.	0.3	52

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19	Conduction System Disease in Fetuses Evaluated for Irregular Cardiac Rhythm. Fetal Diagnosis and Therapy, 2006, 21, 307-313.	0.6	51
20	Atrial and Ventricular Rate Response and Patterns of Heart Rate Acceleration during Maternal–Fetal Terbutaline Treatment of Fetal Complete Heart Block. American Journal of Cardiology, 2007, 100, 661-665.	0.7	47
21	Simultaneity of foetal heart rate acceleration and foetal trunk movement determined by foetal magnetocardiogram actocardiography. Physics in Medicine and Biology, 2002, 47, 839-846.	1.6	44
22	Congenital junctional ectopic tachycardia and congenital complete atrioventricular block: A shared etiology?. Heart Rhythm, 2005, 2, 313-315.	0.3	42
23	An expanded phenotype of maternal SSA/SSB antibody-associated fetal cardiac disease. Journal of Maternal-Fetal and Neonatal Medicine, 2009, 22, 233-238.	0.7	42
24	Assessment of Fetal Rhythm in Complete Congenital Heart Block by Magnetocardiography. PACE - Pacing and Clinical Electrophysiology, 2000, 23, 1047-1050.	0.5	39
25	Spectral analysis of antepartum fetal heart rate variability from fetal magnetocardiogram recordings. Early Human Development, 1993, 35, 15-24.	0.8	38
26	MEG and EEG Source Localization in Beamspace. IEEE Transactions on Biomedical Engineering, 2006, 53, 430-441.	2.5	36
27	Whole head mapping of magnetic fields following painful electric finger shock. Cognitive Brain Research, 1995, 2, 165-172.	3.3	35
28	Atrial and ventricular fetal heart rate patterns in isolated congenital complete heart block detected by magnetocardiography. American Journal of Obstetrics and Gynecology, 1998, 179, 258-260.	0.7	33
29	Fetal arrhythmias associated with cardiac rhabdomyomas. Heart Rhythm, 2014, 11, 677-683.	0.3	30
30	Giant Fetal Magnetocardiogram P Waves in Congenital Atrioventricular Block. Circulation, 2004, 110, 2097-2101.	1.6	28
31	Magnetophysiologic and echocardiographic comparison of blocked atrial bigeminy and 2:1 atrioventricular block in the fetus. Heart Rhythm, 2013, 10, 1192-1198.	0.3	28
32	Complex and Novel Arrhythmias Precede Stillbirth in Fetuses With De Novo Long QT Syndrome. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008082.	2.1	28
33	Fetal Atrial Flutter: Electrophysiology and Associations With Rhythms Involving an Accessory Pathway. Journal of the American Heart Association, 2016, 5, .	1.6	25
34	The natural history of fetal long QT syndrome. Journal of Electrocardiology, 2016, 49, 807-813.	0.4	24
35	Genotype Predicts Outcomes in Fetuses and Neonates With Severe Congenital Long QT Syndrome. JACC: Clinical Electrophysiology, 2020, 6, 1561-1570.	1.3	24
36	Assessment of Left Ventricular Pre-Ejection Period in the Fetus Using Simultaneous Magnetocardiography and Echocardiography. Fetal Diagnosis and Therapy, 2010, 28, 167-174.	0.6	21

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37	Maximum-Likelihood Estimation of Low-Rank Signals for Multiepoch MEG/EEG Analysis. IEEE Transactions on Biomedical Engineering, 2004, 51, 1981-1993.	2.5	20
38	Fetal magnetocardiogram waveform characteristics. Physiological Measurement, 2019, 40, 035002.	1.2	19
39	Adaptive, autoregressive spectral estimation for analysis of electrical signals of gastric origin. Physiological Measurement, 2003, 24, 91-106.	1.2	17
40	Detection of Fetal Arrhythmia by Using Optically Pumped Magnetometers. JACC: Clinical Electrophysiology, 2018, 4, 284-287.	1.3	17
41	Magnetocardiography in the evaluation of fetuses at risk for sudden cardiac death before birth. Journal of Electrocardiology, 2008, 41, 116.e1-116.e6.	0.4	16
42	Matched-filter template generation via spatial filtering: application to fetal biomagnetic recordings. IEEE Transactions on Biomedical Engineering, 2002, 49, 1214-1217.	2.5	15
43	Simultaneous Fetal Magnetocardiography and Ultrasound/Doppler Imaging. IEEE Transactions on Biomedical Engineering, 2007, 54, 1167-1171.	2.5	14
44	Indices and Detectors for Fetal MCG Actography. IEEE Transactions on Biomedical Engineering, 2011, 58, 1874-1880.	2.5	14
45	Electrophysiologic features of fetal ventricular aneurysms and diverticula. Prenatal Diagnosis, 2015, 35, 129-136.	1.1	14
46	Fetal source extraction from magnetocardiographic recordings by dependent component analysis. Physics in Medicine and Biology, 2005, 50, 4457-4464.	1.6	12
47	Linear and nonlinear measures of fetal heart rate patterns evaluated on very short fetal magnetocardiograms. Physiological Measurement, 2012, 33, 1563-1583.	1.2	12
48	Statistical performance analysis of signal variance-based dipole models for MEG/EEG source localization and detection. IEEE Transactions on Biomedical Engineering, 2003, 50, 137-149.	2.5	11
49	Linear minimum mean-square error filtering for evoked responses: application to fetal MEG. IEEE Transactions on Biomedical Engineering, 2006, 53, 959-963.	2.5	10
50	Spatiotemporal visualization of neuromagnetic data. Electroencephalography and Clinical Neurophysiology, 1993, 86, 51-57.	0.3	9
51	Maternal MCG Interference Cancellation Using Splined Independent Component Subtraction. IEEE Transactions on Biomedical Engineering, 2011, 58, 2835-2843.	2.5	8
52	Complex Fetal Care: Importance of Fetal Arrhythmias to the Neonatologist and Pediatrician. NeoReviews, 2016, 17, e568-e578.	0.4	8
53	Detection of T-Wave Alternans in Fetal Magnetocardiography Using the Generalized Likelihood Ratio Test. IEEE Transactions on Biomedical Engineering, 2013, 60, 2393-2400.	2.5	7
54	Noninvasive Fetal Electrocardiography in the Diagnosis of Long QT Syndrome: A Case Series. Fetal Diagnosis and Therapy, 2020, 47, 711-716.	0.6	7

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55	A Spatiotemporal Framework for MEG/EEG Evoked Response Amplitude and Latency Variability Estimation. IEEE Transactions on Biomedical Engineering, 2010, 57, 616-625.	2.5	6
56	Prenatal diagnosis and management of junctional ectopic tachycardia. HeartRhythm Case Reports, 2017, 3, 503-508.	0.2	6
57	Magnetocardiography-Guided Management of an Unusual Case of Isoimmune Complete Atrioventricular Block Complicated by Ventricular Tachycardia. Fetal Diagnosis and Therapy, 2008, 24, 282-285.	0.6	5
58	The missense variant p.(Gly482Arg) in HCN4 is responsible for fetal tachy-bradycardia syndrome. HeartRhythm Case Reports, 2020, 6, 352-356.	0.2	5
59	Independent component analysis of normal and abnormal rhythm in twin pregnancies. Physiological Measurement, 2011, 32, 51-64.	1.2	4
60	Optical Sensor Position Indicator for Neonatal MEC. IEEE Transactions on Biomedical Engineering, 2012, 59, 255-262.	2.5	4
61	The atomic magnetometer: A new era in biomagnetism. , 2014, , .		4
62	Segmented independent component analysis for improved separation of fetal cardiac signals from nonstationary fetal magnetocardiograms. Biomedizinische Technik, 2015, 60, 235-44.	0.9	3
63	Repolarization predictors of fetal long QT syndrome. Heart Rhythm O2, 2020, 1, 200-205.	0.6	3
64	Fetal Magnetocardiography Alters Diagnosis and Management in Fetal Congenital Heart Disease and Cardiomyopathy. JACC: Clinical Electrophysiology, 2022, 8, 1159-1159.	1.3	3
65	An expectation-maximization algorithm for space-time sparsity regularization of the MEG inverse problem. International Congress Series, 2007, 1300, 113-116.	0.2	2
66	Magnetocardiography in the assessment of fetal arrhythmias. Expert Review of Obstetrics and Gynecology, 2009, 4, 45-52.	0.4	2
67	Dynamics of the use of magnetocardiography in the study of the cardiac conduction system of the chick embryo. Birth Defects Research, 2020, 112, 1825-1833.	0.8	2
68	Fetal QT Interval Estimation Using Sequential Hypothesis Testing. IEEE Transactions on Biomedical Engineering, 2017, 64, 2704-2710.	2.5	1
69	Current Status and Future Prospects of Perinatal MEC. , 2019, , 677-680.		1
70	Visualization of dipole solutions to the neuromagnetic inverse problem. International Journal of Bio-medical Computing, 1995, 39, 257-262.	0.5	0
71	Combined Fetal Ultrasonography and Magnetocardiography. , 2005, 2005, 5585-6.		0