

# Hari Eswaran

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/6795167/hari-eswaran-publications-by-year.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86  
papers

1,693  
citations

26  
h-index

38  
g-index

90  
ext. papers

1,962  
ext. citations

3.7  
avg, IF

4.38  
L-index

#	Paper	IF	Citations
86	Factors Associated with First-Time Telehealth Utilization for Marshallese Living in the United States. <i>Telemedicine Reports</i> , <b>2021</b> , 2, 217-223	2	0
85	17 Alpha-hydroxyprogesterone caproate use in a rural state. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2021</b> , 1-3	2	
84	Verification of fetal evoked response by magnetic dipole fitting. <i>Neuroscience Letters</i> , <b>2021</b> , 750, 135791-3	3.3	1
83	Tracking evoked responses to auditory and visual stimuli in fetuses exposed to maternal high-risk conditions. <i>Developmental Psychobiology</i> , <b>2021</b> , 63, 5-15	3	
82	Recording and quantifying fetal magnetocardiography signals using a flexible array of optically-pumped magnetometers. <i>Physiological Measurement</i> , <b>2021</b> , 41, 125003	2.9	3
81	Evaluation of a telemedicine program managing high-risk pregnant women with pre-existing diabetes in Arkansas's Medicaid program. <i>Seminars in Perinatology</i> , <b>2021</b> , 45, 151421	3.3	0
80	Establishing a digital health platform in an academic medical center supporting rural communities. <i>Journal of Clinical and Translational Science</i> , <b>2020</b> , 4, 384-388	0.4	1
79	Studying the Effect of Maternal Pregestational Diabetes on Fetal Neurodevelopment Using Magnetoencephalography. <i>Clinical EEG and Neuroscience</i> , <b>2020</b> , 51, 331-338	2.3	4
78	High-risk obstetrical call center vs. healthcare providers: is there consistency in advice given?. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2020</b> , 1-6	2	
77	Using mHealth in postpartum women with pre-eclampsia: Lessons learned from a qualitative study. <i>International Journal of Gynecology and Obstetrics</i> , <b>2020</b> , 149, 339-346	4	1
76	An enhanced frequency dependent subtraction algorithm for removal of cardiac interference from fMEG by using minimum norm projection operator. <i>Journal of Neuroscience Methods</i> , <b>2020</b> , 336, 108620	3	
75	Maternal Weight, Weight Gain, and Metabolism are Associated with Changes in Fetal Heart Rate and Variability. <i>Obesity</i> , <b>2020</b> , 28, 114-121	8	10
74	Validation of Newly Developed Surveys to Evaluate Patients and Providers' Satisfaction with Telehealth Obstetric Services. <i>Telemedicine Journal and E-Health</i> , <b>2020</b> , 26, 879-888	5.9	9
73	A pilot study: Auditory steady-state responses (ASSR) can be measured in human fetuses using fetal magnetoencephalography (fMEG). <i>PLoS ONE</i> , <b>2020</b> , 15, e0235310	3.7	1
72	Adaptable Sensor Arrays for Fetal Magnetocardiographic Measurements Using Optically-Pumped Magnetometers: A Pilot Study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2020</b> , 2020, 1802-1806	0.9	
71	Measurement of uterine electrophysiological activity. <i>Current Opinion in Physiology</i> , <b>2020</b> , 13, 38-42	2.6	6
70	Magnetocardiographic identification of prolonged fetal corrected QT interval in women receiving treatment for opioid use disorder. <i>Journal of Obstetrics and Gynaecology Research</i> , <b>2019</b> , 45, 1989-1996	1.9	1

69	Use of electronic nicotine delivery systems by pregnant women II: Hair biomarkers for exposures to nicotine and tobacco-specific nitrosamines. <i>Tobacco Induced Diseases</i> , <b>2019</b> , 17, 50	3.2	16
68	Use of Electronic Nicotine Delivery Systems (ENDS) by pregnant women I: Risk of small-for-gestational-age birth. <i>Tobacco Induced Diseases</i> , <b>2019</b> , 17, 44	3.2	33
67	Fetal Magnetoencephalography (fMEG) <b>2019</b> , 1-16		
66	Fetal Magnetoencephalography (fMEG) <b>2019</b> , 661-676		1
65	Characterizing pelvic floor muscles activities using magnetomyography. <i>Neurourology and Urodynamics</i> , <b>2019</b> , 38, 151-157	2.3	6
64	Evaluation of Quantra Hologic Volumetric Computerized Breast Density Software in Comparison With Manual Interpretation in a Diverse Population. <i>Breast Cancer: Basic and Clinical Research</i> , <b>2018</b> , 12, 1178223418759296	2.2	1
63	A Comparison of Five Algorithms for Fetal Magnetocardiography Signal Extraction. <i>Cardiovascular Engineering and Technology</i> , <b>2018</b> , 9, 483-487	2.2	6
62	Tracking Fetal Movement Through Source Localization From Multisensor Magnetocardiographic Recordings. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2018</b> , 22, 758-765	7.2	6
61	High-risk obstetrical call center: a model for regions with limited access to care. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2018</b> , 31, 857-865	2	5
60	Estimating uterine source current during contractions using magnetomyography measurements. <i>PLoS ONE</i> , <b>2018</b> , 13, e0202184	3.7	8
59	Fetal assessment in buprenorphine-maintained women using fetal magnetoencephalography: a pilot study. <i>Addiction</i> , <b>2018</b> , 113, 1895-1904	4.6	3
58	Fetal magnetocardiography using optically pumped magnetometers: a more adaptable and less expensive alternative?. <i>Prenatal Diagnosis</i> , <b>2017</b> , 37, 193-196	3.2	19
57	Exploring Implementation of m-Health Monitoring in Postpartum Women with Hypertension. <i>Telemedicine Journal and E-Health</i> , <b>2017</b> , 23, 833-841	5.9	35
56	Magnetomyography of the levator muscle complex: a novel assessment tool. <i>American Journal of Obstetrics and Gynecology</i> , <b>2016</b> , 215, 667-669	6.4	2
55	Modeling Magnetomyograms of Uterine Contractions during Pregnancy Using a Multiscale Forward Electromagnetic Approach. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152421	3.7	10
54	Comparing the performance of a new disposable pneumatic tocodynamometer with a standard tocodynamometer. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , <b>2016</b> , 95, 319-28	3.8	1
53	Application of a Telecolposcopy Program in Rural Settings. <i>Telemedicine Journal and E-Health</i> , <b>2016</b> , 22, 816-820	5.9	10
52	Observations of fetal brain activity via non-invasive magnetoencephalography following administration of magnesium sulfate for neuroprotection in preterm labor. <i>Prenatal Diagnosis</i> , <b>2016</b> , 36, 982-984	3.2	1

51	Magnetoencephalography: Neurophysiologic Imaging for Perinatal Brain Development. <i>NeoReviews</i> , <b>2015</b> , 16, e544-e550	1.1	0
50	Optimizing appointment template and number of staff of an OB/GYN clinic--micro and macro simulation analyses. <i>BMC Health Services Research</i> , <b>2015</b> , 15, 387	2.9	9
49	Characterizing the Propagation of Uterine Electrophysiological Signals Recorded with a Multi-Sensor Abdominal Array in Term Pregnancies. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140894	3.7	17
48	Fetal magnetocardiography measurements with an array of microfabricated optically pumped magnetometers. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 4797-811	3.8	85
47	Tracking the changes in synchrony of the electrophysiological activity as the uterus approaches labor using magnetomyographic technique. <i>Reproductive Sciences</i> , <b>2015</b> , 22, 595-601	3	19
46	Telemedicine for patients with epilepsy: a pilot experience. <i>Epilepsy and Behavior</i> , <b>2015</b> , 44, 1-4	3.2	40
45	Antiemetic medications in pregnancy: a prospective investigation of obstetric and neurobehavioral outcomes. <i>American Journal of Obstetrics and Gynecology</i> , <b>2014</b> , 210, 270.e1-7	6.4	5
44	Social network analysis of biomedical research collaboration networks in a CTSA institution. <i>Journal of Biomedical Informatics</i> , <b>2014</b> , 52, 130-40	10.2	35
43	CollaborationViz: interactive visual exploration of biomedical research collaboration networks. <i>PLoS ONE</i> , <b>2014</b> , 9, e111928	3.7	10
42	Quantification of fetal magnetoencephalographic activity in low-risk fetuses using burst duration and interburst interval. <i>Clinical Neurophysiology</i> , <b>2014</b> , 125, 1353-9	4.3	5
41	Fetal Magnetoencephalography (fMEG) <b>2014</b> , 509-523		
40	Sensitivity to Auditory Spectral Width in the Fetus and Infant - An fMEG Study. <i>Frontiers in Human Neuroscience</i> , <b>2013</b> , 7, 917	3.3	14
39	Spectral power differences in the brain activity of growth-restricted and normal fetuses. <i>Early Human Development</i> , <b>2012</b> , 88, 451-4	2.2	7
38	Habituation of visual evoked responses in neonates and fetuses: a MEG study. <i>Developmental Cognitive Neuroscience</i> , <b>2012</b> , 2, 303-16	5.5	32
37	Multiscale forward electromagnetic model of uterine contractions during pregnancy. <i>BMC Medical Physics</i> , <b>2012</b> , 12, 4		20
36	Correlation between fetal brain activity patterns and behavioral states: an exploratory fetal magnetoencephalography study. <i>Experimental Neurology</i> , <b>2011</b> , 228, 200-5	5.7	18
35	Conduction velocity of the uterine contraction in serial magnetomyogram (MMG) data: event based simulation and validation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 6025-8	0.9	4
34	Localization of spontaneous magnetoencephalographic activity of neonates and fetuses using independent component and Hilbert phase analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 1311-7	0.9	3

33	Early development of brain responses to rapidly presented auditory stimulation: a magnetoencephalographic study. <i>Brain and Development</i> , <b>2010</b> , 32, 642-57	2.2	13
32	Fetal Magnetoencephalography - Achievements and Challenges in the Study of Prenatal and Early Postnatal Brain Responses: A Review. <i>Infant and Child Development</i> , <b>2010</b> , 19, 80-93	1.4	28
31	Adaptive rule based fetal QRS complex detection using Hilbert transform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 4666-9	0.9	31
30	Localizing the neonatal and fetal spontaneous brain activity by Hilbert phase analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 6616-9	0.9	2
29	Extraction, quantification and characterization of uterine magnetomyographic activity--a proof of concept case study. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , <b>2009</b> , 144 Suppl 1, S96-100	2.4	22
28	Detection of discontinuous patterns in spontaneous brain activity of neonates and fetuses. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 2725-9	5	12
27	Fetal neurological assessment using noninvasive magnetoencephalography. <i>Clinics in Perinatology</i> , <b>2009</b> , 36, 701-9	2.8	7
26	Assessing cardiac and neurological maturation during the intrauterine period. <i>Seminars in Perinatology</i> , <b>2008</b> , 32, 263-8	3.3	6
25	Neonatal and fetal response decrement of evoked responses: a MEG study. <i>Clinical Neurophysiology</i> , <b>2008</b> , 119, 796-804	4.3	31
24	Detection of uterine MMG contractions using a multiple change point estimator and the K-means cluster algorithm. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2008</b> , 55, 453-67	5	26
23	Delayed maturation of auditory-evoked responses in growth-restricted fetuses revealed by magnetoencephalographic recordings. <i>American Journal of Obstetrics and Gynecology</i> , <b>2008</b> , 199, 503.e1-7	6.4	24
22	Auditory evoked responses: A tool to assess the fetal neurological activity. <i>Applied Acoustics</i> , <b>2007</b> , 68, 270-280	3.1	6
21	Serial magnetoencephalographic study of fetal and newborn auditory discriminative evoked responses. <i>Early Human Development</i> , <b>2007</b> , 83, 199-207	2.2	85
20	Non-invasive detection and identification of brain activity patterns in the developing fetus. <i>Clinical Neurophysiology</i> , <b>2007</b> , 118, 1940-6	4.3	26
19	Magnetoencephalography in healthy neonates. <i>Clinical Neurophysiology</i> , <b>2006</b> , 117, 289-94	4.3	15
18	Fetal magnetoencephalography. <i>Seminars in Fetal and Neonatal Medicine</i> , <b>2006</b> , 11, 430-6	3.7	31
17	Fetal and maternal magnetocardiography during flecainide therapy for supraventricular tachycardia. <i>Obstetrics and Gynecology</i> , <b>2006</b> , 108, 767-71	4.9	10
16	Development of auditory evoked fields in human fetuses and newborns: a longitudinal MEG study. <i>Clinical Neurophysiology</i> , <b>2005</b> , 116, 1949-55	4.3	80

15	Sound frequency change detection in fetuses and newborns, a magnetoencephalographic study. <i>NeuroImage</i> , <b>2005</b> , 28, 354-61	7.9	155
14	Synchronization analysis of the uterine magnetic activity during contractions. <i>BioMedical Engineering OnLine</i> , <b>2005</b> , 4, 55	4.1	35
13	Fetal magnetoencephalography--a multimodal approach. <i>Developmental Brain Research</i> , <b>2005</b> , 154, 57-62		34
12	Spatial-temporal analysis of uterine smooth muscle activity recorded during pregnancy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2005</b> , 2005, 6665-7		1
11	Fetal magnetoencephalography: viewing the developing brain in utero. <i>International Review of Neurobiology</i> , <b>2005</b> , 68, 1-23	4.4	20
10	Fetal MEG redistribution by projection operators. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2004</b> , 51, 1207-18	5	66
9	Prediction of labor in term and preterm pregnancies using non-invasive magnetomyographic recordings of uterine contractions. <i>American Journal of Obstetrics and Gynecology</i> , <b>2004</b> , 190, 1598-602; discussion 1602-3	6.4	36
8	Functional development of the visual system in human fetus using magnetoencephalography. <i>Experimental Neurology</i> , <b>2004</b> , 190 Suppl 1, S52-8	5.7	47
7	Fetal magnetoencephalography: current progress and trends. <i>Experimental Neurology</i> , <b>2004</b> , 190 Suppl 1, S28-36	5.7	56
6	Spontaneous neuronal activity in fetuses and newborns. <i>Experimental Neurology</i> , <b>2004</b> , 190 Suppl 1, S37-43	5.7	22
5	Noninvasive antepartum recording of fetal S-T segment with a newly developed 151-channel magnetic sensor system. <i>American Journal of Obstetrics and Gynecology</i> , <b>2003</b> , 188, 1491-6; discussion 1496-7	6.4	36
4	First magnetomyographic recordings of uterine activity with spatial-temporal information with a 151-channel sensor array. <i>American Journal of Obstetrics and Gynecology</i> , <b>2002</b> , 187, 145-51	6.4	46
3	Magnetoencephalographic recordings of visual evoked brain activity in the human fetus. <i>Lancet, The</i> , <b>2002</b> , 360, 779-80	4.0	74
2	Short-term serial magnetoencephalography recordings of fetal auditory evoked responses. <i>Neuroscience Letters</i> , <b>2002</b> , 331, 128-32	3.3	59
1	Challenges of recording human fetal auditory-evoked response using magnetoencephalography. <i>The Journal of Maternal-fetal Medicine</i> , <b>2000</b> , 9, 303-7		28