

# Hari Eswaran

## List of Publications by Citations

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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.

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	Sound frequency change detection in fetuses and newborns, a magnetoencephalographic study. <i>NeuroImage</i> , <b>2005</b> , 28, 354-61	7.9	155
85	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
84	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
83	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
82	Magnetoencephalographic recordings of visual evoked brain activity in the human fetus. <i>Lancet, The</i> , <b>2002</b> , 360, 779-80	4.0	74
81	Fetal MEG redistribution by projection operators. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2004</b> , 51, 1207-18	5	66
80	Short-term serial magnetoencephalography recordings of fetal auditory evoked responses. <i>Neuroscience Letters</i> , <b>2002</b> , 331, 128-32	3.3	59
79	Fetal magnetoencephalography: current progress and trends. <i>Experimental Neurology</i> , <b>2004</b> , 190 Suppl 1, S28-36	5.7	56
78	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
77	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
76	Telemedicine for patients with epilepsy: a pilot experience. <i>Epilepsy and Behavior</i> , <b>2015</b> , 44, 1-4	3.2	40
75	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
74	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
73	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
72	Synchronization analysis of the uterine magnetic activity during contractions. <i>BioMedical Engineering OnLine</i> , <b>2005</b> , 4, 55	4.1	35
71	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
70	Fetal magnetoencephalography--a multimodal approach. <i>Developmental Brain Research</i> , <b>2005</b> , 154, 57-62		34

69	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
68	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
67	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
66	Neonatal and fetal response decrement of evoked responses: a MEG study. <i>Clinical Neurophysiology</i> , <b>2008</b> , 119, 796-804	4.3	31
65	Fetal magnetoencephalography. <i>Seminars in Fetal and Neonatal Medicine</i> , <b>2006</b> , 11, 430-6	3.7	31
64	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
63	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
62	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
61	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
60	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
59	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
58	Spontaneous neuronal activity in fetuses and newborns. <i>Experimental Neurology</i> , <b>2004</b> , 190 Suppl 1, S37-43	3.7	22
57	Multiscale forward electromagnetic model of uterine contractions during pregnancy. <i>BMC Medical Physics</i> , <b>2012</b> , 12, 4		20
56	Fetal magnetoencephalography: viewing the developing brain in utero. <i>International Review of Neurobiology</i> , <b>2005</b> , 68, 1-23	4.4	20
55	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
54	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
53	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
52	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

51	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
50	Magnetoencephalography in healthy neonates. <i>Clinical Neurophysiology</i> , <b>2006</b> , 117, 289-94	4.3	15
49	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
48	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
47	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
46	CollaborationViz: interactive visual exploration of biomedical research collaboration networks. <i>PLoS ONE</i> , <b>2014</b> , 9, e111928	3.7	10
45	Fetal and maternal magnetocardiography during flecainide therapy for supraventricular tachycardia. <i>Obstetrics and Gynecology</i> , <b>2006</b> , 108, 767-71	4.9	10
44	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
43	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
42	Application of a Telecolposcopy Program in Rural Settings. <i>Telemedicine Journal and E-Health</i> , <b>2016</b> , 22, 816-820	5.9	10
41	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
40	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
39	Estimating uterine source current during contractions using magnetomyography measurements. <i>PLoS ONE</i> , <b>2018</b> , 13, e0202184	3.7	8
38	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
37	Fetal neurological assessment using noninvasive magnetoencephalography. <i>Clinics in Perinatology</i> , <b>2009</b> , 36, 701-9	2.8	7
36	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
35	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
34	Assessing cardiac and neurological maturation during the intrauterine period. <i>Seminars in Perinatology</i> , <b>2008</b> , 32, 263-8	3.3	6

33	Auditory evoked responses: A tool to assess the fetal neurological activity. <i>Applied Acoustics</i> , <b>2007</b> , 68, 270-280	3.1	6
32	Characterizing pelvic floor muscles activities using magnetomyography. <i>Neurourology and Urodynamics</i> , <b>2019</b> , 38, 151-157	2.3	6
31	Measurement of uterine electrophysiological activity. <i>Current Opinion in Physiology</i> , <b>2020</b> , 13, 38-42	2.6	6
30	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
29	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
28	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
27	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
26	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, 1077-80	0.9	4
25	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, 1344-7	0.9	3
24	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
23	Fetal assessment in buprenorphine-maintained women using fetal magnetoencephalography: a pilot study. <i>Addiction</i> , <b>2018</b> , 113, 1895-1904	4.6	3
22	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
21	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
20	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
19	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
18	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
17	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
16	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

15	Fetal Magnetoencephalography (fMEG) <b>2019</b> , 661-676		1
14	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
13	Verification of fetal evoked response by magnetic dipole fitting. <i>Neuroscience Letters</i> , <b>2021</b> , 750, 135791-3	3.3	1
12	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
11	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
10	Magnetoencephalography: Neurophysiologic Imaging for Perinatal Brain Development. <i>NeoReviews</i> , <b>2015</b> , 16, e544-e550	1.1	0
9	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
8	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
7	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	
6	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	
5	Fetal Magnetoencephalography (fMEG) <b>2019</b> , 1-16		
4	Fetal Magnetoencephalography (fMEG) <b>2014</b> , 509-523		
3	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, 1803-1806	0.9	
2	17 Alpha-hydroxyprogesterone caproate use in a rural state. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2021</b> , 1-3	2	
1	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	