

Curtis L Lowery

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,115
citations

218677
26
h-index

254184
43
g-index

72
all docs

72
docs citations

72
times ranked

1636
citing authors

#	ARTICLE	IF	CITATIONS
1	Sound frequency change detection in fetuses and newborns, a magnetoencephalographic study. <i>NeuroImage</i> , 2005, 28, 354-361.	4.2	184
2	Neurodevelopmental Changes of Fetal Pain. <i>Seminars in Perinatology</i> , 2007, 31, 275-282.	2.5	126
3	Late Preterm Infants: Birth Outcomes and Health Care Utilization in the First Year. <i>Pediatrics</i> , 2010, 126, e311-e319.	2.1	118
4	Serial magnetoencephalographic study of fetal and newborn auditory discriminative evoked responses. <i>Early Human Development</i> , 2007, 83, 199-207.	1.8	103
5	Association of State Medicaid Expansion Status With Low Birth Weight and Preterm Birth. <i>JAMA - Journal of the American Medical Association</i> , 2019, 321, 1598.	7.4	93
6	Development of auditory evoked fields in human fetuses and newborns: A longitudinal MEG study. <i>Clinical Neurophysiology</i> , 2005, 116, 1949-1955.	1.5	87
7	Magnetoencephalographic recordings of visual evoked brain activity in the human fetus. <i>Lancet, The</i> , 2002, 360, 779-780.	13.7	86
8	Fetal MEG Redistribution by Projection Operators. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1207-1218.	4.2	75
9	Short-term serial magnetoencephalography recordings offetal auditory evoked responses. <i>Neuroscience Letters</i> , 2002, 331, 128-132.	2.1	70
10	Fetal magnetoencephalography: current progress and trends. <i>Experimental Neurology</i> , 2004, 190, 28-36.	4.1	66
11	Exploring Implementation of m-Health Monitoring in Postpartum Women with Hypertension. <i>Telemedicine Journal and E-Health</i> , 2017, 23, 833-841.	2.8	60
12	The Use of Telemedicine in Obstetrics: A Review of the Literature. <i>Obstetrical and Gynecological Survey</i> , 2011, 66, 170-178.	0.4	55
13	ANGELS and University of Arkansas for Medical Sciences paradigm for distant obstetrical care delivery. <i>American Journal of Obstetrics and Gynecology</i> , 2007, 196, 534.e1-534.e9.	1.3	54
14	Functional development of the visual system in human fetus using magnetoencephalography. <i>Experimental Neurology</i> , 2004, 190, 52-58.	4.1	53
15	Integrated Approach for Fetal QRS Detection. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 2190-2197.	4.2	43
16	Distributing Medical Expertise: The Evolution And Impact Of Telemedicine In Arkansas. <i>Health Affairs</i> , 2014, 33, 235-243.	5.2	43
17	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> , 2003, 188, 1491-1497.	1.3	41
18	Fetal magnetoencephalographyâ€”a multimodal approach. <i>Developmental Brain Research</i> , 2005, 154, 57-62.	1.7	36

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19	Habituation of visual evoked responses in neonates and fetuses: A MEG study. <i>Developmental Cognitive Neuroscience</i> , 2012, 2, 303-316.	4.0	35
20	GDM-associated insulin deficiency hinders the dissociation of SERT from ERp44 and down-regulates placental 5-HT uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5697-705.	7.1	35
21	Fetal magnetoencephalography. <i>Seminars in Fetal and Neonatal Medicine</i> , 2006, 11, 430-436.	2.3	32
22	Non-invasive detection and identification of brain activity patterns in the developing fetus. <i>Clinical Neurophysiology</i> , 2007, 118, 1940-1946.	1.5	32
23	Tracking the Changes in Synchrony of the Electrophysiological Activity as the Uterus Approaches Labor Using Magnetomyographic Technique. <i>Reproductive Sciences</i> , 2015, 22, 595-601.	2.5	30
24	Challenges of recording human fetal auditory-evoked response using magnetoencephalography. <i>The Journal of Maternal-fetal Medicine</i> , 2000, 9, 303-307.	0.3	29
25	Delayed maturation of auditory-evoked responses in growth-restricted fetuses revealed by magnetoencephalographic recordings. <i>American Journal of Obstetrics and Gynecology</i> , 2008, 199, 503.e1-503.e7.	1.3	28
26	Maternal pregravid obesity changes gene expression profiles toward greater inflammation and reduced insulin sensitivity in umbilical cord. <i>Pediatric Research</i> , 2014, 76, 202-210.	2.3	28
27	Fetal magnetocardiography using optically pumped magnetometers: a more adaptable and less expensive alternative?. <i>Prenatal Diagnosis</i> , 2017, 37, 193-196.	2.3	27
28	Validation of Newly Developed Surveys to Evaluate Patients' and Providers' Satisfaction with Telehealth Obstetric Services. <i>Telemedicine Journal and E-Health</i> , 2020, 26, 879-888.	2.8	26
29	Fetal Magnetoencephalography: Viewing the Developing Brain In Utero. <i>International Review of Neurobiology</i> , 2005, 68, 1-23.	2.0	24
30	Improving Perinatal Regionalization for Preterm Deliveries in a Medicaid Covered Population: Initial Impact of the Arkansas ANGELS Intervention. <i>Health Services Research</i> , 2011, 46, 1082-1103.	2.0	23
31	Characterizing the Propagation of Uterine Electrophysiological Signals Recorded with a Multi-Sensor Abdominal Array in Term Pregnancies. <i>PLoS ONE</i> , 2015, 10, e0140894.	2.5	23
32	Correlation between fetal brain activity patterns and behavioral states: An exploratory fetal magnetoencephalography study. <i>Experimental Neurology</i> , 2011, 228, 200-205.	4.1	20
33	Issues and Biases in Matching Medicaid Pregnancy Episodes to Vital Records Data: The Arkansas Experience. <i>Maternal and Child Health Journal</i> , 2009, 13, 250-259.	1.5	19
34	What Is Digital Health and What Do I Need to Know About It?. <i>Obstetrics and Gynecology Clinics of North America</i> , 2020, 47, 215-225.	1.9	19
35	Childhood Respiratory Morbidity after Late Preterm and Early Term Delivery: a Study of Medicaid Patients in South Carolina. <i>Paediatric and Perinatal Epidemiology</i> , 2016, 30, 67-75.	1.7	18
36	TESTING FOR NONLINEARITY OF THE CONTRACTION SEGMENTS IN UTERINE ELECTROMYOGRAPHY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2000, 10, 2785-2790.	1.7	17

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37	Sensitivity to Auditory Spectral Width in the Fetus and Infant – An fMEG Study. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 917.	2.0	16
38	Magnetoencephalography in healthy neonates. <i>Clinical Neurophysiology</i> , 2006, 117, 289-294.	1.5	15
39	Early maturation of sinus rhythm dynamics in high-risk fetuses. <i>American Journal of Obstetrics and Gynecology</i> , 2007, 196, 572.e1-572.e7.	1.3	15
40	Evolving trends in maternal fetal medicine referrals in a rural state using telemedicine. <i>Archives of Gynecology and Obstetrics</i> , 2012, 286, 1383-1392.	1.7	15
41	Optimizing appointment template and number of staff of an OB/GYN clinic – micro and macro simulation analyses. <i>BMC Health Services Research</i> , 2015, 15, 387.	2.2	15
42	Teleultrasound: How Accurate Are We?. <i>Journal of Ultrasound in Medicine</i> , 2017, 36, 2329-2335.	1.7	15
43	Application of a Telecolposcopy Program in Rural Settings. <i>Telemedicine Journal and E-Health</i> , 2016, 22, 816-820.	2.8	14
44	Use of Specialty OB Consults During High-Risk Pregnancies in a Medicaid-Covered Population. <i>Medical Care Research and Review</i> , 2012, 69, 699-720.	2.1	13
45	Recording and quantifying fetal magnetocardiography signals using a flexible array of optically-pumped magnetometers. <i>Physiological Measurement</i> , 2020, 41, 125003.	2.1	13
46	Discrepancy in Insulin Regulation between Gestational Diabetes Mellitus (GDM) Platelets and Placenta. <i>Journal of Biological Chemistry</i> , 2016, 291, 9657-9665.	3.4	12
47	Fetal Neurological Assessment Using Noninvasive Magnetoencephalography. <i>Clinics in Perinatology</i> , 2009, 36, 701-709.	2.1	11
48	Assessing Cardiac and Neurological Maturation During the Intrauterine Period. <i>Seminars in Perinatology</i> , 2008, 32, 263-268.	2.5	10
49	Ideal telestroke time targets: Telestroke-based treatment times in the United States stroke belt. <i>Journal of Telemedicine and Telecare</i> , 2020, 26, 174-179.	2.7	9
50	Novel uterine contraction monitoring to enable remote, self-administered nonstress testing. <i>American Journal of Obstetrics and Gynecology</i> , 2022, 226, 554.e1-554.e12.	1.3	9
51	Spectral power differences in the brain activity of growth-restricted and normal fetuses. <i>Early Human Development</i> , 2012, 88, 451-454.	1.8	8
52	Mobilizing a Statewide Network to Provide Ebola Education and Support. <i>Telemedicine Journal and E-Health</i> , 2016, 22, 153-158.	2.8	7
53	Sustaining and Expanding Telehealth: A Survey of Business Models from Selected Prominent U.S. Telehealth Centers. <i>Telemedicine Journal and E-Health</i> , 2017, 23, 137-142.	2.8	7
54	Using mHealth in postpartum women with pre-eclampsia: Lessons learned from a qualitative study. <i>International Journal of Gynecology and Obstetrics</i> , 2020, 149, 339-346.	2.3	7

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55	Quantification of fetal magnetoencephalographic activity in low-risk fetuses using burst duration and interburst interval. <i>Clinical Neurophysiology</i> , 2014, 125, 1353-1359.	1.5	5
56	High-risk obstetrical call center: a model for regions with limited access to care. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2018, 31, 857-865.	1.5	5
57	A simple wavelet-based test for evoked responses. <i>Journal of Neuroscience Methods</i> , 2004, 138, 157-164.	2.5	4
58	Evaluating the Effect of Hospital and Insurance Type on the Risk of 1-year Mortality of Very Low Birth Weight Infants. <i>Medical Care</i> , 2012, 50, 353-360.	2.4	4
59	Fetal assessment in buprenorphine-maintained women using fetal magnetoencephalography: a pilot study. <i>Addiction</i> , 2018, 113, 1895-1904.	3.3	4
60	Magnetocardiographic identification of prolonged fetal corrected QT interval in women receiving treatment for opioid use disorder. <i>Journal of Obstetrics and Gynaecology Research</i> , 2019, 45, 1989-1996.	1.3	4
61	Teleultrasound for pre-natal diagnosis: A validation study. <i>Australasian Journal of Ultrasound in Medicine</i> , 2019, 22, 248-252.	0.6	4
62	Implementation of a statewide, multisite fetal tele-echocardiography program: evaluation of more than 1100 fetuses over 9 years. <i>Journal of Perinatology</i> , 2020, 40, 1524-1530.	2.0	4
63	Evaluation of a telemedicine program managing high-risk pregnant women with pre-existing diabetes in Arkansas's Medicaid program. <i>Seminars in Perinatology</i> , 2021, 45, 151421.	2.5	4
64	Challenges of Recording Human Fetal Auditory* Evoked Response Using Magnetoencephalography. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2000, 9, 303-307.	1.5	2
65	Comparing the performance of a new disposable pneumatic tocodynamometer with a standard tocodynamometer. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2016, 95, 319-328.	2.8	2
66	Observations of fetal brain activity via non-invasive magnetoencephalography following administration of magnesium sulfate for neuroprotection in preterm labor. <i>Prenatal Diagnosis</i> , 2016, 36, 982-984.	2.3	2
67	Improving perinatal regionalization: 10 years of experience with an Arkansas initiative. <i>Journal of Perinatology</i> , 2020, 40, 1609-1616.	2.0	1
68	Tracking evoked responses to auditory and visual stimuli in fetuses exposed to maternal high-risk conditions. <i>Developmental Psychobiology</i> , 2021, 63, 5-15.	1.6	1
69	Relationship Between Fetal Behavioral States and Auditory and Visual Stimulation. , 2019, , .		0
70	High-risk obstetrical call center vs. healthcare providers: is there consistency in advice given?. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2022, 35, 1445-1450.	1.5	0
71	Women on Hormone Therapy with Ischemic Stroke, Effects on Deficits and Recovery. , 2019, 1, 1-7.		0
72	Intro to Telemedicine and Connected Health in Obstetrics and Gynecology. <i>Obstetrics and Gynecology Clinics of North America</i> , 2020, 47, xv-xvi.	1.9	0