Chiara Rabotti

List of Publications by Year
in descending order

40	1,078	430754 18	501076 28
papers	citations	h-index	g-index

40	40	40	706
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Estimation of internal uterine pressure by joint amplitude and frequency analysis of electrohysterographic signals. Physiological Measurement, 2008, 29, 829-841.	1.2	95
2	A Low-Voltage Chopper-Stabilized Amplifier for Fetal ECG Monitoring With a 1.41 Power Efficiency Factor. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 237-247.	2.7	93
3	Noninvasive Estimation of the Electrohysterographic Action-Potential Conduction Velocity. IEEE Transactions on Biomedical Engineering, 2010, 57, 2178-2187.	2.5	90
4	Accuracy of Frequency-Related Parameters of the Electrohysterogram for Predicting Preterm Delivery. Obstetrical and Gynecological Survey, 2009, 64, 529-541.	0.2	77
5	Uterine peristalsis and fertility: current knowledge and future perspectives: a review and meta-analysis. Reproductive BioMedicine Online, 2017, 35, 50-71.	1.1	77
6	Propagation of electrical activity in uterine muscle during pregnancy: a review. Acta Physiologica, 2015, 213, 406-416.	1.8	70
7	Low-complexity R-peak detection for ambulatory fetal monitoring. Physiological Measurement, 2012, 33, 1135-1150.	1.2	66
8	Influence of Electrode Placement on Signal Quality for Ambulatory Pregnancy Monitoring. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-12.	0.7	64
9	Dedicated Entropy Measures for Early Assessment of Pregnancy Progression From Single-Channel Electrohysterography. IEEE Transactions on Biomedical Engineering, 2018, 65, 875-884.	2.5	41
10	Inter-electrode delay estimators for electrohysterographic propagation analysis. Physiological Measurement, 2009, 30, 745-761.	1.2	32
11	Low-complexity intrauterine pressure estimation using the Teager energy operator on electrohysterographic recordings. Physiological Measurement, 2014, 35, 1215-1228.	1.2	31
12	Modeling and Identification of the Electrohysterographic Volume Conductor by High-Density Electrodes. IEEE Transactions on Biomedical Engineering, 2010, 57, 519-527.	2.5	30
13	Automated Conduction Velocity Analysis in the Electrohysterogram for Prediction of Imminent Delivery: A Preliminary Study. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-7.	0.7	26
14	Clinical Use of Electrohysterography During Term Labor: A Systematic Review on Diagnostic Value, Advantages, and Limitations. Obstetrical and Gynecological Survey, 2018, 73, 303-324.	0.2	26
15	Novel Vibration-Exercise Instrument With Dedicated Adaptive Filtering for Electromyographic Investigation of Neuromuscular Activation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 275-282.	2.7	24
16	Motion-Artifact Reduction in Capacitive Heart-Rate Measurements by Adaptive Filtering. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4085-4093.	2.4	21
17	A 430nW 64nV/√Hz current-reuse telescopic amplifier for neural recording applications. , 2013, , .		20
18	Study protocol: PoPE-Prediction of Preterm delivery by Electrohysterography. BMC Pregnancy and Childbirth, 2014, 14, 192.	0.9	20

#	Article	IF	Citations
19	Electrohysterographic propagation velocity for preterm delivery prediction. American Journal of Obstetrics and Gynecology, 2011, 205, e9-e10.	0.7	19
20	Feasibility of Transabdominal Electrohysterography for Analysis of Uterine Activity in Nonpregnant Women. Reproductive Sciences, 2018, 25, 1124-1133.	1.1	18
21	Analysis of Vibration Exercise at Varying Frequencies by Different Fatigue Estimators. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1284-1293.	2.7	15
22	Towards Real-Time Estimation of Muscle-Fiber Conduction Velocity Using Delay-Locked Loop. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1453-1460.	2.7	13
23	Simulator of a Full Fetal Electrocardiogram Measurement Chain by Multichannel Capacitive Sensing. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4348-4357.	2.4	11
24	Adaptive motion-artifact reduction in capacitive ECG measurements by using the power-line interference. , 2018, , .		9
25	Two-dimensional estimation of the electrohysterographic conduction velocity. , 2010, 2010, 4262-5.		8
26	A multiple-channel frontend system with current reuse for fetal monitoring applications. , 2014, , .		8
27	Propagation of spontaneous electrical activity in the ex vivo human uterus. Pflugers Archiv European Journal of Physiology, 2020, 472, 1065-1078.	1.3	8
28	Multi-Modal Uterine-Activity Measurements for Prediction of Embryo Implantation by Machine Learning. IEEE Access, 2021, 9, 47096-47111.	2.6	8
29	Electrohysterographic analysis of uterine contraction propagation with labor progression: a preliminary study. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4135-8.	0.5	7
30	A low-power noise scalable instrumentation amplifier for fetal monitoring applications. , 2013, , .		7
31	Visual inspection of transvaginal ultrasound videos to characterize uterine peristalsis: an inter-observer agreement study. Journal of Ultrasound, 2020, 23, 37-44.	0.7	7
32	Assessment of uterine activity during IVF by quantitative ultrasound imaging: a pilot study. Reproductive BioMedicine Online, 2020, 41, 1045-1053.	1.1	7
33	Myometrium electromechanical modeling for internal uterine pressure estimation by electrohysterography. , 2009, 2009, 6259-62.		6
34	Vectorial analysis of the electrohysterogram for prediction of preterm delivery: A preliminary study. , 2011, 2011, 3880-3.		6
35	Electrohysterographic evaluation of preterm contractions in a patient with a unicornuate uterus. Acta Obstetricia Et Gynecologica Scandinavica, 2013, 92, 730-733.	1.3	5
36	On the propagation analysis of electrohysterographic signals. , 2008, 2008, 3868-71.		4

#	Article	IF	Citations
37	Prediction of embryo implantation by machine learning based on ultrasound strain imaging. , 2019, , .		4
38	A low-power frontend system for fetal ECG monitoring applications. , 2015, , .		3
39	Machine learning for classification of uterine activity outside pregnancy. , 2019, 2019, 2161-2164.		2
40	Automatic Contraction Detection During the Menstrual Cycle By Electrohysterography. Journal of Minimally Invasive Gynecology, 2015, 22, S101.	0.3	0