

Hubert Preißl

List of Publications by Year in descending order

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286
papers

12,265
citations

30070

54
h-index

37204

96
g-index

313
all docs

313
docs citations

313
times ranked

11460
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of the BCI Competition IV. <i>Frontiers in Neuroscience</i> , 2012, 6, 55.	2.8	686
2	Brain Insulin Resistance at the Crossroads of Metabolic and Cognitive Disorders in Humans. <i>Physiological Reviews</i> , 2016, 96, 1169-1209.	28.8	384
3	Hand Movement Direction Decoded from MEG and EEG. <i>Journal of Neuroscience</i> , 2008, 28, 1000-1008.	3.6	376
4	An MEG-based brain-computer interface (BCI). <i>NeuroImage</i> , 2007, 36, 581-593.	4.2	360
5	Nouns and Verbs in the Intact Brain: Evidence from Event-related Potentials and High-frequency Cortical Responses. <i>Cerebral Cortex</i> , 1999, 9, 497-506.	2.9	305
6	Processing of food pictures: Influence of hunger, gender and calorie content. <i>Brain Research</i> , 2010, 1350, 159-166.	2.2	249
7	The obese brain: Association of body mass index and insulin sensitivity with resting state network functional connectivity. <i>Human Brain Mapping</i> , 2012, 33, 1052-1061.	3.6	245
8	The determinants of food choice. <i>Proceedings of the Nutrition Society</i> , 2017, 76, 316-327.	1.0	218
9	Impaired insulin action in the human brain: causes and metabolic consequences. <i>Nature Reviews Endocrinology</i> , 2015, 11, 701-711.	9.6	204
10	Evoked potentials distinguish between nouns and verbs. <i>Neuroscience Letters</i> , 1995, 197, 81-83.	2.1	202
11	The cerebrocortical response to hyperinsulinemia is reduced in overweight humans: A magnetoencephalographic study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12103-12108.	7.1	196
12	Sound frequency change detection in fetuses and newborns, a magnetoencephalographic study. <i>NeuroImage</i> , 2005, 28, 354-361.	4.2	184
13	Right-Hemisphere Dominance for the Processing of Sound-Source Lateralization. <i>Journal of Neuroscience</i> , 2000, 20, 6631-6639.	3.6	172
14	Brain Rhythms of Language: Nouns Versus Verbs. <i>European Journal of Neuroscience</i> , 1996, 8, 937-941.	2.6	168
15	Impulsivity in Binge Eating Disorder: Food Cues Elicit Increased Reward Responses and Disinhibition. <i>PLoS ONE</i> , 2013, 8, e76542.	2.5	152
16	Subjective feeling of appetite modulates brain activity. <i>NeuroImage</i> , 2006, 32, 1273-1280.	4.2	145
17	Compromised white matter integrity in obesity. <i>Obesity Reviews</i> , 2015, 16, 273-281.	6.5	138
18	Influence of social support and emotional context on pain processing and magnetic brain responses in fibromyalgia. <i>Arthritis and Rheumatism</i> , 2004, 50, 4035-4044.	6.7	135

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19	Insulin Modulates Food-Related Activity in the Central Nervous System. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 748-755.	3.6	135
20	Central Insulin Administration Improves Whole-Body Insulin Sensitivity via Hypothalamus and Parasympathetic Outputs in Men. <i>Diabetes</i> , 2014, 63, 4083-4088.	0.6	135
21	Selective Insulin Resistance in Homeostatic and Cognitive Control Brain Areas in Overweight and Obese Adults. <i>Diabetes Care</i> , 2015, 38, 1044-1050.	8.6	126
22	Attentional impulsivity in binge eating disorder modulates response inhibition performance and frontal brain networks. <i>International Journal of Obesity</i> , 2015, 39, 353-360.	3.4	126
23	Central nervous pathways of insulin action in the control of metabolism and food intake. <i>Lancet Diabetes and Endocrinology</i> , 2020, 8, 524-534.	11.4	126
24	Fractal dimension of electroencephalographic time series and underlying brain processes. <i>Biological Cybernetics</i> , 1995, 73, 477-482.	1.3	121
25	Benign Partial Epilepsy in Childhood: Selective Cognitive Deficits Are Related to the Location of Focal Spikes Determined by Combined EEG/MEG. <i>Epilepsia</i> , 2005, 46, 1661-1667.	5.1	121
26	Specific white matter tissue microstructure changes associated with obesity. <i>NeuroImage</i> , 2016, 125, 36-44.	4.2	106
27	A Placebo-Controlled Randomized Crossover Trial of the N-Methyl-d-Aspartic Acid Receptor Antagonist, Memantine, in Patients with Chronic Phantom Limb Pain. <i>Anesthesia and Analgesia</i> , 2004, 98, 408-413.	2.2	104
28	Resting-state functional connectivity of the human hypothalamus. <i>Human Brain Mapping</i> , 2014, 35, 6088-6096.	3.6	104
29	Serial magnetoencephalographic study of fetal and newborn auditory discriminative evoked responses. <i>Early Human Development</i> , 2007, 83, 199-207.	1.8	103
30	Variation in the FTO gene locus is associated with cerebrocortical insulin resistance in humans. <i>Diabetologia</i> , 2007, 50, 2602-2603.	6.3	96
31	Reduced cortical thickness associated with visceral fat and BMI. <i>NeuroImage: Clinical</i> , 2014, 6, 307-311.	2.7	96
32	Functional Network Connectivity Underlying Food Processing: Disturbed Salience and Visual Processing in Overweight and Obese Adults. <i>Cerebral Cortex</i> , 2013, 23, 1247-1256.	2.9	95
33	Nasal insulin changes peripheral insulin sensitivity simultaneously with altered activity in homeostatic and reward-related human brain regions. <i>Diabetologia</i> , 2012, 55, 1773-1782.	6.3	94
34	Intranasal Insulin Modulates Intrinsic Reward and Prefrontal Circuitry of the Human Brain in Lean Women. <i>Neuroendocrinology</i> , 2013, 97, 176-182.	2.5	93
35	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
36	Hypothalamic and Striatal Insulin Action Suppresses Endogenous Glucose Production and May Stimulate Glucose Uptake During Hyperinsulinemia in Lean but Not in Overweight Men. <i>Diabetes</i> , 2017, 66, 1797-1806.	0.6	87

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37	Magnetoencephalographic recordings of visual evoked brain activity in the human fetus. <i>Lancet, The</i> , 2002, 360, 779-780.	13.7	86
38	Source Reconstruction Accuracy of MEG and EEG Bayesian Inversion Approaches. <i>PLoS ONE</i> , 2012, 7, e51985.	2.5	83
39	Tissue selectivity of insulin detemir action in vivo. <i>Diabetologia</i> , 2006, 49, 1274-1282.	6.3	82
40	Altered brain activity in severely obese women may recover after Roux-en Y gastric bypass surgery. <i>International Journal of Obesity</i> , 2014, 38, 341-348.	3.4	81
41	Brain insulin sensitivity is linked to adiposity and body fat distribution. <i>Nature Communications</i> , 2020, 11, 1841.	12.8	81
42	Revisiting sample entropy analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 376, 158-164.	2.6	78
43	Diabetes dietary management alters responses to food pictures in brain regions associated with motivation and emotion: a functional magnetic resonance imaging study. <i>Diabetologia</i> , 2009, 52, 524-533.	6.3	78
44	Functional neuroimaging studies in functional dyspepsia patients: a systematic review. <i>Neurogastroenterology and Motility</i> , 2016, 28, 793-805.	3.0	78
45	Fetal MEG Redistribution by Projection Operators. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1207-1218.	4.2	75
46	Short-term serial magnetoencephalography recordings of fetal auditory evoked responses. <i>Neuroscience Letters</i> , 2002, 331, 128-132.	2.1	70
47	Safety of intranasal human insulin: A review. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 1563-1577.	4.4	70
48	Differential effect of glucose ingestion on the neural processing of food stimuli in lean and overweight adults. <i>Human Brain Mapping</i> , 2014, 35, 918-928.	3.6	69
49	Fetal magnetoencephalography: current progress and trends. <i>Experimental Neurology</i> , 2004, 190, 28-36.	4.1	66
50	Volitional regulation of brain responses to food stimuli in overweight and obese subjects: A real-time fMRI feedback study. <i>Appetite</i> , 2017, 112, 188-195.	3.7	66
51	Intranasal insulin enhances brain functional connectivity mediating the relationship between adiposity and subjective feeling of hunger. <i>Scientific Reports</i> , 2017, 7, 1627.	3.3	63
52	Phantom limb pain. <i>Lancet, The</i> , 2001, 358, 1015.	13.7	59
53	Real-time fMRI neurofeedback training to improve eating behavior by self-regulation of the dorsolateral prefrontal cortex: A randomized controlled trial in overweight and obese subjects. <i>NeuroImage</i> , 2019, 191, 596-609.	4.2	58
54	First magnetomyographic recordings of uterine activity with spatial-temporal information with a 151-channel sensor array. <i>American Journal of Obstetrics and Gynecology</i> , 2002, 187, 145-151.	1.3	57

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55	High cerebral insulin sensitivity is associated with loss of body fat during lifestyle intervention. <i>Diabetologia</i> , 2012, 55, 175-182.	6.3	57
56	Good practice in food-related neuroimaging. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 491-503.	4.7	56
57	Functional development of the visual system in human fetus using magnetoencephalography. <i>Experimental Neurology</i> , 2004, 190, 52-58.	4.1	53
58	Impaired inhibitory control in anorexia nervosa elicited by physical activity stimuli. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 917-923.	3.0	53
59	Insulin Action in the Human Brain: Evidence from Neuroimaging Studies. <i>Journal of Neuroendocrinology</i> , 2015, 27, 419-423.	2.6	53
60	High-frequency cortical responses: do they not exist if they are small?. <i>Electroencephalography and Clinical Neurophysiology</i> , 1997, 102, 64-66.	0.3	52
61	Prediction of labor in term and preterm pregnancies using non-invasive magnetomyographic recordings of uterine contractions. <i>American Journal of Obstetrics and Gynecology</i> , 2004, 190, 1598-1602.	1.3	52
62	Intranasal Insulin Suppresses Systemic but Not Subcutaneous Lipolysis in Healthy Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, E246-E251.	3.6	52
63	Gestational Diabetes Impairs Human Fetal Postprandial Brain Activity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 4029-4036.	3.6	52
64	Leptin Therapy in a Congenital Leptin-Deficient Patient Leads to Acute and Long-Term Changes in Homeostatic, Reward, and Food-Related Brain Areas. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, E1283-E1287.	3.6	51
65	Understanding the reward system functioning in anorexia nervosa: Crucial role of physical activity. <i>Biological Psychology</i> , 2013, 94, 575-581.	2.2	51
66	Oxytocin curbs calorie intake via food-specific increases in the activity of brain areas that process reward and establish cognitive control. <i>Scientific Reports</i> , 2018, 8, 2736.	3.3	51
67	Fractal dimensions of short EEG time series in humans. <i>Neuroscience Letters</i> , 1997, 225, 77-80.	2.1	50
68	Auditory habituation in the fetus and neonate: an fMEG study. <i>Developmental Science</i> , 2013, 16, 287-295.	2.4	50
69	Maternal insulin sensitivity is associated with oral glucose-induced changes in fetal brain activity. <i>Diabetologia</i> , 2014, 57, 1192-1198.	6.3	50
70	Cerebrocortical Beta Activity in Overweight Humans Responds to Insulin Detemir. <i>PLoS ONE</i> , 2007, 2, e1196.	2.5	49
71	Gamma-band MEG activity to coherent motion depends on task-driven attention. <i>NeuroReport</i> , 1999, 10, 1997-2000.	1.2	48
72	Monounsaturated Fatty Acids Prevent the Aversive Effects of Obesity on Locomotion, Brain Activity, and Sleep Behavior. <i>Diabetes</i> , 2012, 61, 1669-1679.	0.6	48

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73	The Insulin-Mediated Modulation of Visually Evoked Magnetic Fields Is Reduced in Obese Subjects. PLoS ONE, 2011, 6, e19482.	2.5	48
74	Insulin sensitivity of the human brain. Diabetes Research and Clinical Practice, 2011, 93, S47-S51.	2.8	47
75	Dose-Dependent Effects of Intranasal Insulin on Resting-State Brain Activity. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 253-262.	3.6	47
76	Optimal reduction of MCG in fetal MEG recordings. IEEE Transactions on Biomedical Engineering, 2006, 53, 1720-1724.	4.2	46
77	Detrended fluctuation analysis of short datasets: An application to fetal cardiac data. Physica D: Nonlinear Phenomena, 2007, 226, 23-31.	2.8	46
78	Aberrant network integrity of the inferior frontal cortex in women with anorexia nervosa. NeuroImage: Clinical, 2014, 4, 615-622.	2.7	46
79	Heart rate variability parameters and fetal movement complement fetal behavioral states detection via magnetography to monitor neurovegetative development. Frontiers in Human Neuroscience, 2015, 9, 147.	2.0	46
80	Crossed cortico-spinal motor control after capsular stroke. European Journal of Neuroscience, 2007, 25, 2935-2945.	2.6	45
81	The right hand knows what the left hand is feeling. Experimental Brain Research, 2005, 162, 366-373.	1.5	44
82	Synchronization analysis of the uterine magnetic activity during contractions. BioMedical Engineering OnLine, 2005, 4, 55.	2.7	44
83	Neuronal correlates of reduced memory performance in overweight subjects. NeuroImage, 2012, 60, 362-369.	4.2	44
84	Steady-state responses in MEG demonstrate information integration within but not across the auditory and visual senses. NeuroImage, 2012, 60, 1478-1489.	4.2	44
85	Variation in the obesity risk gene FTO determines the postprandial cerebral processing of food stimuli in the prefrontal cortex. Molecular Metabolism, 2014, 3, 109-113.	6.5	44
86	The Obese Brain Athlete: Self-Regulation of the Anterior Insula in Adiposity. PLoS ONE, 2012, 7, e42570.	2.5	44
87	Integrated Approach for Fetal QRS Detection. IEEE Transactions on Biomedical Engineering, 2008, 55, 2190-2197.	4.2	43
88	Empagliflozin Improves Insulin Sensitivity of the Hypothalamus in Humans With Prediabetes: A Randomized, Double-Blind, Placebo-Controlled, Phase 2 Trial. Diabetes Care, 2022, 45, 398-406.	8.6	43
89	Human fetal brain imaging by magnetoencephalography: verification of fetal brain signals by comparison with fetal brain models. NeuroImage, 2004, 21, 1009-1020.	4.2	42
90	Insulin sensitivity predicts cognitive decline in individuals with prediabetes. BMJ Open Diabetes Research and Care, 2020, 8, e001741.	2.8	42

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91	Noninvasive antepartum recording of fetal S-T segment with a newly developed 151-channel magnetic sensor system. American Journal of Obstetrics and Gynecology, 2003, 188, 1491-1497.	1.3	41
92	Insulin-mediated cortical activity in the slow frequency range is diminished in obese mice and promotes physical inactivity. Diabetologia, 2009, 52, 2416-2424.	6.3	41
93	Adaptive rule based fetal QRS complex detection using hilbert transform. , 2009, 2009, 4666-9.		40
94	The Insulin Effect on Cerebrocortical Theta Activity Is Associated with Serum Concentrations of Saturated Nonesterified Fatty Acids. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 4600-4607.	3.6	40
95	Fat intake modulates cerebral blood flow in homeostatic and gustatory brain areas in humans. American Journal of Clinical Nutrition, 2012, 95, 1342-1349.	4.7	40
96	Controversies in fat perception. Physiology and Behavior, 2015, 152, 479-493.	2.1	40
97	Integration of homeostatic signaling and food reward processing in the human brain. JCI Insight, 2017, 2, .	5.0	40
98	Interaction between the obesity-risk gene FTO and the dopamine D2 receptor gene ANKK1/TaqIA on insulin sensitivity. Diabetologia, 2016, 59, 2622-2631.	6.3	39
99	Neonatal and fetal response decrement of evoked responses: A MEG study. Clinical Neurophysiology, 2008, 119, 796-804.	1.5	38
100	Insulin Modulation of Magnetoencephalographic Resting State Dynamics in Lean and Obese Subjects. Frontiers in Systems Neuroscience, 2010, 4, 157.	2.5	37
101	Fetal magnetoencephalographyâ€”a multimodal approach. Developmental Brain Research, 2005, 154, 57-62.	1.7	36
102	Fetal magnetoencephalographyâ€”achievements and challenges in the study of prenatal and early postnatal brain responses: a review. Infant and Child Development, 2010, 19, 80-93.	1.5	36
103	A Novel Approach to Track Fetal Movement Using Multi-sensor Magnetocardiographic Recordings. Annals of Biomedical Engineering, 2011, 39, 964-972.	2.5	36
104	Weighted Phase Lag Index and Graph Analysis: Preliminary Investigation of Functional Connectivity during Resting State in Children. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-8.	1.3	36
105	Eating less or more â€” Mindset induced changes in neural correlates of pre-meal planning. Appetite, 2018, 125, 492-501.	3.7	36
106	Habituation of visual evoked responses in neonates and fetuses: A MEG study. Developmental Cognitive Neuroscience, 2012, 2, 303-316.	4.0	35
107	Magnetoencephalographic Signatures of Numerosity Discrimination in Fetuses and Neonates. Developmental Neuropsychology, 2014, 39, 316-329.	1.4	35
108	Dopamine Depletion Reduces Food-Related Reward Activity Independent of BMI. Neuropsychopharmacology, 2016, 41, 1551-1559.	5.4	33

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109	Explaining aphasias in neuronal terms. <i>Journal of Neurolinguistics</i> , 1994, 8, 75-81.	1.1	32
110	Fetal magnetoencephalography. <i>Seminars in Fetal and Neonatal Medicine</i> , 2006, 11, 430-436.	2.3	32
111	Non-invasive detection and identification of brain activity patterns in the developing fetus. <i>Clinical Neurophysiology</i> , 2007, 118, 1940-1946.	1.5	32
112	Motor programming in both hemispheres: an EEG study of the human brain. <i>Neuroscience Letters</i> , 1995, 190, 5-8.	2.1	31
113	Statistical probability mapping reveals high-frequency magnetoencephalographic activity in supplementary motor area during self-paced finger movements. <i>Neuroscience Letters</i> , 2000, 283, 81-84.	2.1	31
114	Neuroimaging of chronic pain: phantom limb and musculoskeletal pain. <i>Scandinavian Journal of Rheumatology</i> , 2000, 29, 13-18.	1.1	30
115	Grouping of MEG gamma oscillations by EEG sleep spindles. <i>NeuroImage</i> , 2012, 59, 1491-1500.	4.2	30
116	The first prior: From co-embodiment to co-homeostasis in early life. <i>Consciousness and Cognition</i> , 2021, 91, 103117.	1.5	30
117	Activity patterns of human somatosensory cortex adapt dynamically to stimulus properties. <i>NeuroReport</i> , 2000, 11, 2977-2980.	1.2	29
118	Complexity of visual stimuli and non-linear EEG dynamics in humans. <i>Cognitive Brain Research</i> , 2003, 16, 104-110.	3.0	29
119	Detection of Uterine MMG Contractions Using a Multiple Change Point Estimator and the K-Means Cluster Algorithm. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 453-467.	4.2	29
120	Long-Term Stabilization Effects of Leptin on Brain Functions in a Leptin-Deficient Patient. <i>PLoS ONE</i> , 2013, 8, e65893.	2.5	29
121	Polymorphism rs3123554 in <i>CNR2</i> reveals gender-specific effects on body weight and affects loss of body weight and cerebral insulin action. <i>Obesity</i> , 2014, 22, 925-931.	3.0	29
122	BMI-Independent Effects of Gestational Diabetes on Human Placenta. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 3299-3309.	3.6	29
123	The Impact of Maternal Eating Disorders on Dietary Intake and Eating Patterns during Pregnancy: A Systematic Review. <i>Nutrients</i> , 2019, 11, 840.	4.1	29
124	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
125	An Obesity Risk SNP (rs17782313) near the <i>MC4R</i> Gene Is Associated with Cerebrocortical Insulin Resistance in Humans. <i>Journal of Obesity</i> , 2011, 2011, 1-4.	2.7	28
126	Extraction, quantification and characterization of uterine magnetomyographic activity – A proof of concept case study. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2009, 144, S96-S100.	1.1	27

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127	Hypothalamic insulin responsiveness is associated with pancreatic insulin secretion in humans. <i>Physiology and Behavior</i> , 2017, 176, 134-138.	2.1	27
128	Impact of Intrauterine Growth Restriction on Cognitive and Motor Development at 2 Years of Age. <i>Frontiers in Physiology</i> , 2018, 9, 1278.	2.8	27
129	Differential effects of intranasal insulin and caffeine on cerebral blood flow. <i>Human Brain Mapping</i> , 2012, 33, 280-287.	3.6	26
130	Multiscale forward electromagnetic model of uterine contractions during pregnancy. <i>BMC Medical Physics</i> , 2012, 12, 4.	2.4	25
131	Dissociation of GLP-1 and insulin association with food processing in the brain: GLP-1 sensitivity despite insulin resistance in obese humans. <i>Molecular Metabolism</i> , 2015, 4, 971-976.	6.5	25
132	Neuronal Food Reward Activity in Patients With Type 2 Diabetes With Improved Glycemic Control After Bariatric Surgery. <i>Diabetes Care</i> , 2016, 39, 1311-1317.	8.6	25
133	Neuroimaging of hypothalamic mechanisms related to glucose metabolism in anorexia nervosa and obesity. <i>Journal of Clinical Investigation</i> , 2020, 130, 4094-4103.	8.2	25
134	Insulin effects on beta and theta activity in the human brain are differentially affected by ageing. <i>Diabetologia</i> , 2009, 52, 169-171.	6.3	24
135	Diminished prefrontal cortex activation in patients with binge eating disorder associates with trait impulsivity and improves after impulsivity-focused treatment based on a randomized controlled IMPULS trial. <i>NeuroImage: Clinical</i> , 2021, 30, 102679.	2.7	24
136	Central Insulin Modulates Dopamine Signaling in the Human Striatum. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 2949-2961.	3.6	24
137	Fetal Magnetoencephalography: Viewing the Developing Brain In Utero. <i>International Review of Neurobiology</i> , 2005, 68, 1-23.	2.0	24
138	Cortical processing of near-threshold tactile stimuli in a paired-stimulus paradigm - an MEG study. <i>European Journal of Neuroscience</i> , 2011, 34, 641-651.	2.6	23
139	Insulin Action in the Hypothalamus Increases Second-Phase Insulin Secretion in Humans. <i>Neuroendocrinology</i> , 2020, 110, 929-937.	2.5	23
140	The temporal sequence of magnetic brain activity for food categorization and memorization " an exploratory study. <i>NeuroImage</i> , 2010, 52, 1584-1591.	4.2	22
141	Leptin Affects Insulin Action in Astrocytes and Impairs Insulin-mediated Physical Activity. <i>Cellular Physiology and Biochemistry</i> , 2012, 30, 238-246.	1.6	22
142	Health, pleasure, and fullness: changing mindset affects brain responses and portion size selection in adults with overweight and obesity. <i>International Journal of Obesity</i> , 2020, 44, 428-437.	3.4	22
143	Maternal Weight, Weight Gain, and Metabolism are Associated with Changes in Fetal Heart Rate and Variability. <i>Obesity</i> , 2020, 28, 114-121.	3.0	22
144	Investigating obesity-associated brain inflammation using quantitative water content mapping. <i>Journal of Neuroendocrinology</i> , 2020, 32, e12907.	2.6	22

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145	Is there chaos in the brain?. Behavioral and Brain Sciences, 1996, 19, 307-308.	0.7	21
146	Multiple frequency steady-state evoked magnetic field mapping of digit representation in primary somatosensory cortex. Somatosensory & Motor Research, 2001, 18, 10-18.	0.9	20
147	Ellipsoidal head model for fetal magnetoencephalography: forward and inverse solutions. Physics in Medicine and Biology, 2005, 50, 2141-2157.	3.0	20
148	Design of a light stimulator for fetal and neonatal magnetoencephalography. Physiological Measurement, 2009, 30, N1-N10.	2.1	20
149	Correlation between fetal brain activity patterns and behavioral states: An exploratory fetal magnetoencephalography study. Experimental Neurology, 2011, 228, 200-205.	4.1	20
150	Heart rate variability categories of fluctuation amplitude and complexity: diagnostic markers of fetal development and its disturbances. Physiological Measurement, 2019, 40, 064002.	2.1	20
151	Pregnancy outcome in women with polycystic ovary syndrome in relation to second-trimester testosterone levels. Reproductive BioMedicine Online, 2021, 42, 217-225.	2.4	20
152	Working memory-related brain activity is associated with outcome of lifestyle intervention. Obesity, 2013, 21, 2488-2494.	3.0	19
153	Combining MEG and MRI with neuronavigation for treatment of an epileptiform spike focus in the precentral region. World Neurosurgery, 2003, 59, 40-45.	1.3	18
154	Bootstrap significance of low SNR evoked response. Journal of Neuroscience Methods, 2008, 168, 265-272.	2.5	18
155	Magnetoencephalographic signatures of right prefrontal cortex involvement in response inhibition. Human Brain Mapping, 2014, 35, 5236-5248.	3.6	18
156	Fetal auditory evoked responses to onset of amplitude modulated sounds. A fetal magnetoencephalography (fMEG) study. Hearing Research, 2018, 363, 70-77.	2.0	18
157	Magnetoencephalographic signatures of conscious processing before birth. Developmental Cognitive Neuroscience, 2021, 49, 100964.	4.0	18
158	Dynamics of nonlinguistic statistical learning: From neural entrainment to the emergence of explicit knowledge. NeuroImage, 2021, 240, 118378.	4.2	18
159	Cortical reorganization after digit-to-hand replantation. Journal of Neurosurgery, 2000, 93, 876-883.	1.6	17
160	Early activation of the primary somatosensory cortex without conscious awareness of somatosensory stimuli in tumor patients. Neuroscience Letters, 2001, 308, 193-196.	2.1	17
161	Magnetomyographic recording and identification of uterine contractions using Hilbert-wavelet transforms. Physiological Measurement, 2009, 30, 1051-1060.	2.1	17
162	Is there a relationship between fetal brain function and the fetal behavioral state? A fetal MEG-study. Journal of Perinatal Medicine, 2013, 41, 1-8.	1.4	17

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163	Functional brain development in growth-restricted and constitutionally small fetuses: a fetal magnetoencephalography case-control study. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2015, 122, 1184-1190.	2.3	17
164	Obesity and Impaired Metabolic Health Increase Risk of COVID-19-Related Mortality in Young and Middle-Aged Adults to the Level Observed in Older People: The LEOSS Registry. <i>Frontiers in Medicine</i> , 2022, 9, .	2.6	17
165	Removal of interference from fetal MEG by frequency dependent subtraction. <i>NeuroImage</i> , 2012, 59, 2475-2484.	4.2	16
166	Auditory habituation to simple tones: reduced evidence for habituation in children compared to adults. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 377.	2.0	16
167	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
168	Fractal dimension of electroencephalographic time series and underlying brain processes. <i>Biological Cybernetics</i> , 1995, 73, 477-482.	1.3	16
169	Objective Measurement of Tactile Mislocalization. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 728-735.	4.2	15
170	Magnetoencephalography in healthy neonates. <i>Clinical Neurophysiology</i> , 2006, 117, 289-294.	1.5	15
171	Validation of the flash-evoked response from fetal MEG. <i>Physics in Medicine and Biology</i> , 2007, 52, 5803-5813.	3.0	15
172	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
173	Early development of brain responses to rapidly presented auditory stimulation: A magnetoencephalographic study. <i>Brain and Development</i> , 2010, 32, 642-657.	1.1	15
174	Neuromagnetic signatures of syllable processing in fetuses and infants provide no evidence for habituation. <i>Early Human Development</i> , 2016, 100, 61-66.	1.8	15
175	Fat label compared with fat content: gastrointestinal symptoms and brain activity in functional dyspepsia patients and healthy controls. <i>American Journal of Clinical Nutrition</i> , 2018, 108, 127-135.	4.7	15
176	Magnetoencephalographic signatures of hierarchical rule learning in newborns. <i>Developmental Cognitive Neuroscience</i> , 2020, 46, 100871.	4.0	15
177	No modulation of postprandial metabolism by transcutaneous auricular vagus-nerve stimulation: a cross-over study in 15 healthy men. <i>Scientific Reports</i> , 2020, 10, 20466.	3.3	15
178	Spotlight on the fetus: how physical activity during pregnancy influences fetal health: a narrative review. <i>BMJ Open Sport and Exercise Medicine</i> , 2020, 6, e000658.	2.9	15
179	Effects of water on cortical excitability in humans. <i>European Journal of Neuroscience</i> , 2002, 15, 528-538.	2.6	14
180	Real-Time Fetal Heart Monitoring in Biomagnetic Measurements Using Adaptive Real-Time ICA. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 1867-1874.	4.2	14

#	ARTICLE	IF	CITATIONS
181	Neural Food Reward Processing in Successful and Unsuccessful Weight Maintenance. <i>Obesity</i> , 2018, 26, 895-902.	3.0	14
182	Spontaneous mechanical and electrical activities of human calf musculature at rest assessed by repetitive single-shot diffusion-weighted MRI and simultaneous surface electromyography. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2784-2794.	3.0	14
183	Fetal magnetocardiography (fMCG): moving forward in the establishment of clinical reference data by advanced biomagnetic instrumentation and analysis. <i>Journal of Perinatal Medicine</i> , 2012, 40, 277-86.	1.4	13
184	Differences in the sleep states of IUGR and low-risk fetuses: An MCG study. <i>Early Human Development</i> , 2013, 89, 815-819.	1.8	13
185	Olive oil aroma extract modulates cerebral blood flow in gustatory brain areas in humans. <i>American Journal of Clinical Nutrition</i> , 2013, 98, 1360-1366.	4.7	13
186	Prediction of Glucose Tolerance without an Oral Glucose Tolerance Test. <i>Frontiers in Endocrinology</i> , 2018, 9, 82.	3.5	13
187	Detection of Discontinuous Patterns in Spontaneous Brain Activity of Neonates and Fetuses. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 2725-2729.	4.2	12
188	An objective assessment of fetal and neonatal auditory evoked responses. <i>NeuroImage</i> , 2008, 43, 521-527.	4.2	11
189	Understanding dynamics of the system using Hilbert phases: An application to study neonatal and fetal brain signals. <i>Physical Review E</i> , 2009, 80, 046213.	2.1	11
190	Fetal Neurological Assessment Using Noninvasive Magnetoencephalography. <i>Clinics in Perinatology</i> , 2009, 36, 701-709.	2.1	11
191	Modulations of neural activity in auditory streaming caused by spectral and temporal alternation in subsequent stimuli: a magnetoencephalographic study. <i>BMC Neuroscience</i> , 2012, 13, 72.	1.9	11
192	Leptin Replacement Reestablishes Brain Insulin Action in the Hypothalamus in Congenital Leptin Deficiency. <i>Diabetes Care</i> , 2018, 41, 907-910.	8.6	11
193	Evaluating Complexity of Fetal MEG Signals: A Comparison of Different Metrics and Their Applicability. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 23.	2.5	11
194	Attentional and physiological processing of food images in functional dyspepsia patients: A pilot study. <i>Scientific Reports</i> , 2018, 8, 1388.	3.3	10
195	Functional Connectivity Within the Gustatory Network Is Altered by Fat Content and Oral Fat Sensitivity – A Pilot Study. <i>Frontiers in Neuroscience</i> , 2019, 13, 725.	2.8	10
196	Detection of diabetes from whole-body MRI using deep learning. <i>JCI Insight</i> , 2021, 6, .	5.0	10
197	Incretin Hypersecretion in Gestational Diabetes Mellitus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, e2425-e2430.	3.6	10
198	Sex differences in central insulin action: Effect of intranasal insulin on neural food cue reactivity in adults with normal weight and overweight. <i>International Journal of Obesity</i> , 2022, 46, 1662-1670.	3.4	10

#	ARTICLE	IF	CITATIONS
199	Bio-magnetic signatures of fetal breathing movement. <i>Physiological Measurement</i> , 2011, 32, 263-273.	2.1	9
200	A computer-aided approach to detect the fetal behavioral states using multi-sensor Magnetocardiographic recordings. <i>Computers in Biology and Medicine</i> , 2016, 69, 44-51.	7.0	9
201	How to Perform and Interpret Functional Magnetic Resonance Imaging Studies in Functional Gastrointestinal Disorders. <i>Journal of Neurogastroenterology and Motility</i> , 2017, 23, 197-207.	2.4	9
202	Searching for the best model: ambiguity of inverse solutions and application to fetal magnetoencephalography. <i>Physics in Medicine and Biology</i> , 2007, 52, 757-776.	3.0	8
203	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
204	Fetal behavioral states are stable over daytime – evidence by longitudinal and cross-sectional fetal biomagnetic recordings. <i>Journal of Perinatal Medicine</i> , 2014, 42, 307-314.	1.4	8
205	Family History of Diabetes Is Associated With Delayed Fetal Postprandial Brain Activity. <i>Frontiers in Endocrinology</i> , 2018, 9, 673.	3.5	8
206	Studying the Effect of Maternal Pregestational Diabetes on Fetal Neurodevelopment Using Magnetoencephalography. <i>Clinical EEG and Neuroscience</i> , 2020, 51, 331-338.	1.7	8
207	Language lateralization in magnetoencephalography: two tasks to investigate hemispheric dominance. <i>NeuroReport</i> , 2006, 17, 1209-1213.	1.2	7
208	Auditory evoked responses: A tool to assess the fetal neurological activity. <i>Applied Acoustics</i> , 2007, 68, 270-280.	3.3	7
209	Verification of fetal brain responses by coregistration of fetal ultrasound and fetal magnetoencephalography data. <i>NeuroImage</i> , 2010, 49, 1469-1478.	4.2	7
210	Response to Comment on Heni et al. Central Insulin Administration Improves Whole-Body Insulin Sensitivity via Hypothalamus and Parasympathetic Outputs in Men. <i>Diabetes</i> 2014;63:4083–4088. <i>Diabetes</i> , 2015, 64, e8-e9.	0.6	7
211	Fully Automated Subtraction of Heart Activity for Fetal Magnetoencephalography Data. , 2019, 2019, 5685-5689.		7
212	Fully Automated R-peak Detection Algorithm (FLORA) for fetal magnetoencephalographic data. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 173, 35-41.	4.7	7
213	Neonatal body composition: cross-sectional study in healthy term singletons in Germany. <i>BMC Pediatrics</i> , 2019, 19, 488.	1.7	7
214	Effects of hydration and hyperventilation on cortical complexity. <i>Experimental Brain Research</i> , 2003, 150, 341-355.	1.5	6
215	Phase plane based identification of fetal heart rate patterns. , 2011, 2011, 1455-8.		6
216	Modulation of attentional networks by food-related disinhibition. <i>Physiology and Behavior</i> , 2017, 176, 84-92.	2.1	6

#	ARTICLE	IF	CITATIONS
217	Competing influences on healthy food choices: Mindsetting versus contextual food cues. <i>Appetite</i> , 2021, 166, 105476.	3.7	6
218	The effect of fetal heart signals on fetal magnetoencephalogram recordings: a possible explanation for increased spectral power in case of intrauterine growth-retarded pregnancies. <i>Prenatal Diagnosis</i> , 2003, 23, 603-605.	2.3	5
219	Decoding Performance for Hand Movements: EEG vs. MEG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 5346-8.	0.5	5
220	Atrioventricular Conduction Delay in Fetuses Exposed to Anti-SSA/Ro and Anti-SSB/La Antibodies: A Magnetocardiography Study. <i>Clinical and Developmental Immunology</i> , 2012, 2012, 1-5.	3.3	5
221	Development and application of an automated extraction algorithm for fetal magnetocardiography "normal data and arrhythmia detection. <i>Journal of Perinatal Medicine</i> , 2013, 41, 725-734.	1.4	5
222	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
223	Fetal magnetocardiography (fMCG) to monitor cardiac time intervals in fetuses at risk for isoimmune AV block. <i>Lupus</i> , 2014, 23, 919-925.	1.6	5
224	Editorial on emerging neuroimaging tools for studying normal and abnormal human brain development. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 127.	2.0	5
225	Changes in event-related brain responses and habituation during child development " A systematic literature review. <i>Clinical Neurophysiology</i> , 2019, 130, 2238-2254.	1.5	5
226	Body composition in term offspring after maternal gestational diabetes does not predict postnatal hypoglycemia. <i>BMC Pediatrics</i> , 2021, 21, 111.	1.7	5
227	The German Gestational Diabetes Study (PREG), a prospective multicentre cohort study: rationale, methodology and design. <i>BMJ Open</i> , 2022, 12, e058268.	1.9	5
228	A simple wavelet-based test for evoked responses. <i>Journal of Neuroscience Methods</i> , 2004, 138, 157-164.	2.5	4
229	Spatial-Temporal Analysis of Uterine Smooth Muscle Activity Recorded During Pregnancy. , 2005, 2005, 6665-7.		4
230	Localization of spontaneous magnetoencephalographic activity of neonates and fetuses using independent component and Hilbert phase analysis. , 2010, 2010, 1344-7.		4
231	Conduction velocity of the uterine contraction in serial magnetomyogram (MMC) data: Event based simulation and validation. , 2011, 2011, 6025-8.		4
232	Automated Detection of Fetal Brain Signals with Principal Component Analysis. , 2019, 2019, 6549-6552.		4
233	A pilot study: Auditory steady-state responses (ASSR) can be measured in human fetuses using fetal magnetoencephalography (fMEG). <i>PLoS ONE</i> , 2020, 15, e0235310.	2.5	4
234	Slow deep breathing modulates cardiac vagal activity but does not affect peripheral glucose metabolism in healthy men. <i>Scientific Reports</i> , 2021, 11, 20306.	3.3	4

#	ARTICLE	IF	CITATIONS
235	Fetal Magnetoencephalography (fMEG). , 2019, , 661-676.		4
236	Evaluation of parameters for fetal behavioural state classification. Scientific Reports, 2022, 12, 3410.	3.3	4
237	Decrement of uterine myometrial burst duration as a correlate to active labor: A Hilbert phase approach. , 2010, 2010, 4618-21.		3
238	Fetal MEG evoked response latency from beamformer with random field theory. NeuroImage, 2010, 49, 282-292.	4.2	3
239	Reconstruction and Characterisation of Neuronal Dynamics: How Attractive is Chaos?. , 1992, , 285-297.		3
240	Maternal eating disorder severity is associated with increased latency of foetal auditory event-related brain responses. European Eating Disorders Review, 2021, 30, 75.	4.1	3
241	Localizing the neonatal and fetal spontaneous brain activity by hilbert phase analysis. , 2009, 2009, 6616-9.		2
242	Perceptual organization of auditory streaming-task relies on neural entrainment of the stimulus-presentation rate: MEG evidence. BMC Neuroscience, 2013, 14, 120.	1.9	2
243	The effect of applying orthogonal projection technique in short window segments to obtain fetal magnetocardiogram. , 2013, 2013, 421-4.		2
244	Pregnant women do not display impaired memory formation across one night of sleep. Journal of Sleep Research, 2021, 30, e13204.	3.2	2
245	Acute relaxation during pregnancy leads to a reduction in maternal electrodermal activity and self-reported stress levels. BMC Pregnancy and Childbirth, 2021, 21, 628.	2.4	2
246	Biology of language: Principle predictions and evidence. Behavioral and Brain Sciences, 1996, 19, 643-645.	0.7	1
247	Neue Perspektiven in der intrauterinen Überwachung mittels fetalem Magnetenzephalogramm. Geburtshilfe Und Frauenheilkunde, 2001, 61, 880-887.	1.8	1
248	Detrended time series (DTS) analysis reveals low heart rate variability (HRV) of intra-uterine growth restricted (IUGR) fetuses – A magnetocardiographic study. American Journal of Obstetrics and Gynecology, 2006, 195, S230.	1.3	1
249	Do cortical maps depend on the timing of sensory input? Experimental evidence and computational model. Biological Cybernetics, 2006, 94, 110-117.	1.3	1
250	A study of fetal sympatho-vagal balance at various gestational periods using the length transform on magnetocardiographic data. , 2007, , .		1
251	Processing of food-relevant visual stimuli measured by magnetoencephalography and its modulation by insulin. International Congress Series, 2007, 1300, 516-519.	0.2	1
252	Electro/magnetoencephalographic signatures of human brain insulin resistance. Current Opinion in Behavioral Sciences, 2016, 9, 163-168.	3.9	1

#	ARTICLE	IF	CITATIONS
253	Maternal Insulin Sensitivity and Fetal Brain Activity. , 2017, , 67-78.		1
254	Tracking evoked responses to auditory and visual stimuli in fetuses exposed to maternal highâ€risk conditions. Developmental Psychobiology, 2021, 63, 5-15.	1.6	1
255	No Effect of Lifestyle Intervention during Third Trimester on Brain Programming in Fetuses of Mothers with Gestational Diabetes. Nutrients, 2021, 13, 556.	4.1	1
256	The Common Food Additive Carrageenan Increases Intestinal Permeability without Affecting Whole-Body Insulin Sensitivity in Humansâ€”Results from a Randomized, Double-Blind Crossover Study. Diabetes, 2018, 67, .	0.6	1
257	150-OR: Brain Insulin Sensitivity Is Modulated by Menstrual Cycle. Diabetes, 2020, 69, 150-OR.	0.6	1
258	102-OR: Detection of Diabetes from Whole-Body Magnetic Resonance Imaging Using Deep Learning. Diabetes, 2020, 69, 102-OR.	0.6	1
259	1099-P: Effects of Empagliflozin on Glucose Metabolism and Body Fat Composition in Patients with Prediabetes: A Randomized, Double-Blind, Placebo-Controlled Trial. Diabetes, 2020, 69, 1099-P.	0.6	1
260	ErhÃ¼htes mÃ¼tterliches Stressempfinden bei Gestationsdiabetes wÃ¤hrend der COVID-19 Pandemie. Diabetologie Und Stoffwechsel, 2022, , .	0.0	1
261	Local or transcortical assemblies? Some evidence from cognitive neuroscience. Behavioral and Brain Sciences, 1995, 18, 640-641.	0.7	0
262	Group Report: The Behavior of Natural and Artificial Systems: Solutions to Functional Demands. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1998, 53, 765-769.	1.4	0
263	Non-invasive magnetomyographic recordings of the uterus to predict labor in term pregnancies. American Journal of Obstetrics and Gynecology, 2003, 189, S70.	1.3	0
264	Effects of auditory evoked stimuli on fetal behavior. American Journal of Obstetrics and Gynecology, 2003, 189, S180.	1.3	0
265	Improved spatio-temporal evaluation of fetal cardiac signals. American Journal of Obstetrics and Gynecology, 2003, 189, S181.	1.3	0
266	Non-invasive recording of neurological activity in normal and IUGR fetuses. American Journal of Obstetrics and Gynecology, 2004, 191, S144.	1.3	0
267	Non-invasive investigation of heart rate variability in growth restricted and normal fetuses using magnetocardiography. American Journal of Obstetrics and Gynecology, 2004, 191, S170.	1.3	0
268	Assessment of fetal brain exposure to smoking. American Journal of Obstetrics and Gynecology, 2005, 193, S102.	1.3	0
269	Habituation of fetal evoked brain responses to visual stimulation. American Journal of Obstetrics and Gynecology, 2006, 195, S224.	1.3	0
270	The effect of routine magnesium supplementation on fetal cardiac time intervals: a fetal magnetocardiographic study. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2013, 168, 151-154.	1.1	0

#	ARTICLE	IF	CITATIONS
271	Fetal and neonatal magnetoencephalography. , 0, , 102-106.		0
272	Fetal Magnetoencephalography (fMEG). , 2014, , 509-523.		0
273	Assessing Functional Brain Development in the Uterus with Fetal Magnetoencephalography. , 2016, , 439-452.		0
274	Fetal Brain Activity in Pregnancy of Women with Type 1 Diabetes Mellitus. Diabetes, 2018, 67, 1402-P.	0.6	0
275	Family History of Diabetes Delays Fetal Brain Activity. Diabetes, 2018, 67, .	0.6	0
276	Brain Insulin Sensitivity Predicts Adiposityâ€™Nine-Year Results of the Tulip Study. Diabetes, 2018, 67, 364-OR.	0.6	0
277	Food Meets Brain. , 2019, , 1227-1246.		0
278	Fetal Magnetoencephalography (fMEG). , 2019, , 1-16.		0
279	Food Meets Brain. , 2019, , 1-20.		0
280	1815-P: Insulin Sensitivity Predicts Cognitive Decline in Prediabetes. Diabetes, 2019, 68, 1815-P.	0.6	0
281	1798-P: Insulin Modulates Dopaminergic Tone in the Human Brainâ€™A Combined PET/MRI Study. Diabetes, 2019, 68, .	0.6	0
282	148-OR: Empagliflozin Improves Insulin Sensitivity of the Hypothalamus in Humans with Prediabetes. Diabetes, 2020, 69, 148-OR.	0.6	0
283	1324-P: GLP-1 Hypersecretion in Gestational Diabetes. Diabetes, 2020, 69, .	0.6	0
284	Neuroendocrinology and brain imaging. Journal of Neuroendocrinology, 2020, 32, e12927.	2.6	0
285	Incretin Hypersecretion in Gestational Diabetes Mellitus. SSRN Electronic Journal, 0, , .	0.4	0
286	Pre-pregnancy BMI but not mild stress directly influences Interleukin-6 levels and insulin sensitivity during late pregnancy. Frontiers in Bioscience, 2022, 27, 056.	2.1	0