

Shiao Y Chan

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

1,812
citations

279487

23
h-index

315357

38
g-index

84
all docs

84
docs citations

84
times ranked

2207
citing authors

#	ARTICLE	IF	CITATIONS
1	Levothyroxine in Women with Thyroid Peroxidase Antibodies before Conception. <i>New England Journal of Medicine</i> , 2019, 380, 1316-1325.	13.9	208
2	The role of the placenta in thyroid hormone delivery to the fetus. <i>Nature Clinical Practice Endocrinology and Metabolism</i> , 2009, 5, 45-54.	2.9	130
3	Optimal management of hypothyroidism, hypothyroxinaemia and euthyroid <scp>TPO</scp> antibody positivity preconception and in pregnancy. <i>Clinical Endocrinology</i> , 2015, 82, 313-326.	1.2	97
4	Early expression of thyroid hormone deiodinases and receptors in human fetal cerebral cortex. <i>Developmental Brain Research</i> , 2002, 138, 109-116.	2.1	92
5	Dietary Vitamin D Restriction in Pregnant Female Mice Is Associated With Maternal Hypertension and Altered Placental and Fetal Development. <i>Endocrinology</i> , 2013, 154, 2270-2280.	1.4	71
6	Inositols: From Established Knowledge to Novel Approaches. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10575.	1.8	67
7	A Randomized Controlled Trial to Evaluate the Effects of a Smartphone Applicationâ€‘Based Lifestyle Coaching Program on Gestational Weight Gain, Glycemic Control, and Maternal and Neonatal Outcomes in Women With Gestational Diabetes Mellitus: The SMART-GDM Study. <i>Diabetes Care</i> , 2021, 44, 456-463.	4.3	59
8	Nutritional Intervention Preconception and During Pregnancy to Maintain Healthy Glucose Metabolism and Offspring Health (â€œNiPPeRâ€œ): study protocol for a randomised controlled trial. <i>Trials</i> , 2017, 18, 131.	0.7	53
9	Socio-demographic and maternal predictors of adherence to 24-hour movement guidelines in Singaporean children. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2019, 16, 70.	2.0	46
10	Costs and benefits of iodine supplementation for pregnant women in a mildly to moderately iodine-deficient population: a modelling analysis. <i>Lancet Diabetes and Endocrinology</i> , the, 2015, 3, 715-722.	5.5	42
11	Current approaches and developments in transcript profiling of the human placenta. <i>Human Reproduction Update</i> , 2020, 26, 799-840.	5.2	41
12	Metformin from mother to unborn child â€‘ Are there unwarranted effects?. <i>EBioMedicine</i> , 2018, 35, 394-404.	2.7	40
13	Iodine Status during Pregnancy in a Region of Mild-to-Moderate Iodine Deficiency is not Associated with Adverse Obstetric Outcomes; Results from the Avon Longitudinal Study of Parents and Children (ALSPAC). <i>Nutrients</i> , 2018, 10, 291.	1.7	39
14	Nutrients or nursing? Understanding how breast milk feeding affects child cognition. <i>European Journal of Nutrition</i> , 2020, 59, 609-619.	1.8	39
15	Cohort profile: Singapore Preconception Study of Long-Term Maternal and Child Outcomes (S-PRESTO). <i>European Journal of Epidemiology</i> , 2021, 36, 129-142.	2.5	38
16	<i>Myo</i>-Inositol, Probiotics, and Micronutrient Supplementation From Preconception for Glycemia in Pregnancy: NiPPeR International Multicenter Double-Blind Randomized Controlled Trial. <i>Diabetes Care</i> , 2021, 44, 1091-1099.	4.3	35
17	MCT8 expression in human fetal cerebral cortex is reduced in severe intrauterine growth restriction. <i>Journal of Endocrinology</i> , 2014, 220, 85-95.	1.2	33
18	Management of subclinical hypothyroidism in pregnancy: are we too simplistic?. <i>European Journal of Endocrinology</i> , 2015, 173, P1-P11.	1.9	28

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19	Combined analysis of gestational diabetes and maternal weight status from pre-pregnancy through post-delivery in future development of type 2 diabetes. <i>Scientific Reports</i> , 2021, 11, 5021.	1.6	28
20	The Prevalence of Thyroid Dysfunction and Autoimmunity in Women With History of Miscarriage or Subfertility. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, 2667-2677.	1.8	27
21	Expression and Function of Thyroid Hormone Transporters in the Microvillous Plasma Membrane of Human Term Placental Syncytiotrophoblast. <i>Endocrinology</i> , 2012, 153, 6126-6135.	1.4	26
22	Associations between early-life screen viewing and 24 hour movement behaviours: findings from a longitudinal birth cohort study. <i>The Lancet Child and Adolescent Health</i> , 2020, 4, 201-209.	2.7	26
23	THYROID HORMONES IN FETAL CENTRAL NERVOUS SYSTEM DEVELOPMENT. <i>Fetal and Maternal Medicine Review</i> , 2003, 14, 177-208.	0.3	24
24	Mismatch between poor fetal growth and rapid postnatal weight gain in the first 2 years of life is associated with higher blood pressure and insulin resistance without increased adiposity in childhood: the GUSTO cohort study. <i>International Journal of Epidemiology</i> , 2020, 49, 1591-1603.	0.9	23
25	A review of Zika virus infections in pregnancy and implications for antenatal care in Singapore. <i>Singapore Medical Journal</i> , 2017, 58, 171-178.	0.3	22
26	Impact of adopting the 2013 World Health Organization criteria for diagnosis of gestational diabetes in a multi-ethnic Asian cohort: a prospective study. <i>BMC Pregnancy and Childbirth</i> , 2018, 18, 69.	0.9	21
27	Television viewing and child cognition in a longitudinal birth cohort in Singapore: the role of maternal factors. <i>BMC Pediatrics</i> , 2019, 19, 286.	0.7	21
28	Iron status and risk factors of iron deficiency among pregnant women in Singapore: a cross-sectional study. <i>BMC Public Health</i> , 2019, 19, 397.	1.2	21
29	Analyses of child cardiometabolic phenotype following assisted reproductive technologies using a pragmatic trial emulation approach. <i>Nature Communications</i> , 2021, 12, 5613.	5.8	19
30	Maternal nutrient deprivation induces sex-specific changes in thyroid hormone receptor and deiodinase expression in the fetal guinea pig brain. <i>Journal of Physiology</i> , 2005, 566, 467-480.	1.3	18
31	High Maternal Circulating Cotinine During Pregnancy is Associated With Persistently Shorter Stature From Birth to Five Years in an Asian Cohort. <i>Nicotine and Tobacco Research</i> , 2019, 21, 1103-1112.	1.4	18
32	A review of the role of inositols in conditions of insulin dysregulation and in uncomplicated and pathological pregnancy. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 1626-1673.	5.4	18
33	Maternal glycemia during pregnancy and offspring abdominal adiposity measured by MRI in the neonatal period and preschool years: The Growing Up in Singapore Towards healthy Outcomes (GUSTO) prospective mother-offspring birth cohort study. <i>American Journal of Clinical Nutrition</i> , 2020, 112, 39-47.	2.2	18
34	Monocarboxylate Transporter 8 Modulates the Viability and Invasive Capacity of Human Placental Cells and Fetoplacental Growth in Mice. <i>PLoS ONE</i> , 2013, 8, e65402.	1.1	17
35	Placental Inositol Reduced in Gestational Diabetes as Glucose Alters Inositol Transporters and IMPA1 Enzyme Expression. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e875-e890.	1.8	16
36	Is breastfeeding associated with later child eating behaviours?. <i>Appetite</i> , 2020, 150, 104653.	1.8	15

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37	24-hour movement behaviour profiles and their transition in children aged 5.5 and 8 years – findings from a prospective cohort study. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2021, 18, 145.	2.0	15
38	Machine Learning–Derived Prenatal Predictive Risk Model to Guide Intervention and Prevent the Progression of Gestational Diabetes Mellitus to Type 2 Diabetes: Prediction Model Development Study. <i>JMIR Diabetes</i> , 2022, 7, e32366.	0.9	15
39	A Smartphone App to Restore Optimal Weight (SPAROW) in Women With Recent Gestational Diabetes Mellitus: Randomized Controlled Trial. <i>JMIR MHealth and UHealth</i> , 2021, 9, e22147.	1.8	14
40	High placental inositol content associated with suppressed pro-adipogenic effects of maternal glycaemia in offspring: the GUSTO cohort. <i>International Journal of Obesity</i> , 2021, 45, 247-257.	1.6	13
41	Significance of the placental barrier in antenatal viral infections. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166244.	1.8	12
42	Metabolism of 13C-Labeled Fatty Acids in Term Human Placental Explants by Liquid Chromatography–Mass Spectrometry. <i>Endocrinology</i> , 2019, 160, 1394-1408.	1.4	11
43	Management of overt hypothyroidism during pregnancy. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2020, 34, 101439.	2.2	10
44	Plasma glycemic measures and fecundability in a Singapore preconception cohort study. <i>Fertility and Sterility</i> , 2021, 115, 138-147.	0.5	10
45	The influence of body position on bioelectrical impedance spectroscopy measurements in young children. <i>Scientific Reports</i> , 2021, 11, 10346.	1.6	9
46	Myo-inositol alters 13C-labeled fatty acid metabolism in human placental explants. <i>Journal of Endocrinology</i> , 2019, 243, 73-84.	1.2	9
47	Prepregnancy adherence to plant-based diet indices and exploratory dietary patterns in relation to fecundability. <i>American Journal of Clinical Nutrition</i> , 2022, 115, 559-569.	2.2	9
48	Iodine intake in pregnancy. <i>Lancet, The</i> , 2001, 358, 583-584.	6.3	8
49	Maternal thyroid hormones and fetal brain development. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2005, 12, 23-30.	0.6	8
50	Smart Phone APP to Restore Optimal Weight (SPAROW): protocol for a randomised controlled trial for women with recent gestational diabetes. <i>BMC Public Health</i> , 2019, 19, 1287.	1.2	8
51	Maternal Glycemia During Pregnancy and Child Carotid Intima Media Thickness, Pulse Wave Velocity, and Augmentation Index. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, e2581-e2590.	1.8	8
52	Placental 13C-DHA metabolism and relationship with maternal BMI, glycemia and birthweight. <i>Molecular Medicine</i> , 2021, 27, 84.	1.9	8
53	Antenatal sleep quality associated with perinatal outcomes in women of advanced maternal age. <i>Sleep Health</i> , 2020, 6, 60-64.	1.3	7
54	Maternal circulating SPINT1 is reduced in small-for-gestational age pregnancies at 26 weeks: Growing up in Singapore towards health outcomes (GUSTO) cohort study. <i>Placenta</i> , 2021, 110, 24-28.	0.7	7

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55	Maternal height, gestational diabetes mellitus and pregnancy complications. <i>Diabetes Research and Clinical Practice</i> , 2021, 178, 108978.	1.1	7
56	Population-centric risk prediction modeling for gestational diabetes mellitus: A machine learning approach. <i>Diabetes Research and Clinical Practice</i> , 2022, 185, 109237.	1.1	7
57	Early adjustment of levothyroxine treatment in pregnancy. <i>Nature Reviews Endocrinology</i> , 2010, 6, 537-538.	4.3	6
58	An enzymatic assay for quantification of inositol in human term placental tissue. <i>Analytical Biochemistry</i> , 2019, 586, 113409.	1.1	6
59	Metformin Perturbs Pancreatic Differentiation From Human Embryonic Stem Cells. <i>Diabetes</i> , 2021, 70, 1689-1702.	0.3	6
60	Breastfeeding may benefit cardiometabolic health of children exposed to increased gestational glycemia in utero. <i>European Journal of Nutrition</i> , 2022, 61, 2383-2395.	1.8	6
61	The socioeconomic landscape of the exposome during pregnancy. <i>Environment International</i> , 2022, 163, 107205.	4.8	6
62	Determinants of cord blood adipokines and association with neonatal abdominal adipose tissue distribution. <i>International Journal of Obesity</i> , 2022, 46, 637-645.	1.6	6
63	Anthropometric measures and HbA1c to detect dysglycemia in young Asian women planning conception: The S-PRESTO cohort. <i>Scientific Reports</i> , 2020, 10, 9228.	1.6	5
64	Severity of nausea and vomiting in pregnancy and early childhood neurobehavioural outcomes: The Growing Up in Singapore Towards Healthy Outcomes study. <i>Paediatric and Perinatal Epidemiology</i> , 2021, 35, 98-108.	0.8	5
65	The association of maternal gestational hyperglycemia with breastfeeding duration and markers of milk production. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 1219-1228.	2.2	5
66	Comparative epidemiology of gestational diabetes in ethnic Chinese from Shanghai birth cohort and growing up in Singapore towards healthy outcomes cohort. <i>BMC Pregnancy and Childbirth</i> , 2021, 21, 566.	0.9	5
67	Optimal treatment of hypothyroidism associated with live birth in cases of previous recurrent placental abruption and stillbirth. <i>International Journal of Gynecology and Obstetrics</i> , 2013, 123, 196-199.	1.0	4
68	Levothyroxine to increase live births in euthyroid women with thyroid antibodies trying to conceive: the TABLET RCT. <i>Efficacy and Mechanism Evaluation</i> , 2019, 6, 1-72.	0.9	4
69	Tracking of dietary patterns between pregnancy and 6 years post-pregnancy in a multiethnic Asian cohort: the Growing Up in Singapore Towards healthy Outcomes (GUSTO) study. <i>European Journal of Nutrition</i> , 2022, 61, 985-1001.	1.8	4
70	Metabolic health status and fecundability in a Singapore preconception cohort study. <i>American Journal of Obstetrics and Gynecology</i> , 2021, , .	0.7	4
71	Myo-inositol – A potential prophylaxis against premature onset of labour and preterm birth. <i>Nutrition Research Reviews</i> , 2021, , 1-19.	2.1	3
72	Increasing nausea and vomiting of pregnancy is associated with sex-dependent differences in early childhood growth: the GUSTO mother-offspring cohort study. <i>BMC Pregnancy and Childbirth</i> , 2021, 21, 578.	0.9	2

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73	Associations of Childcare Arrangements with Adiposity Measures in a Multi-Ethnic Asian Cohort: The GUSTO Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12178.	1.2	2
74	Gestational Weight Gain in Women With Obesity and Consideration of Infant Morbidity and Mortality in Clinical Practice. <i>JAMA Network Open</i> , 2021, 4, e2141508.	2.8	2
75	Thyroid Physiology and Thyroid Diseases in Pregnancy. <i>Endocrinology</i> , 2018, , 673-708.	0.1	0
76	Thyroid Physiology and Thyroid Diseases in Pregnancy. <i>Endocrinology</i> , 2017, , 1-36.	0.1	0
77	Generating pancreatic beta-like cells from human pluripotent stem cells. <i>Methods in Cell Biology</i> , 2022, , .	0.5	0
78	Pre-eclampsia with paradoxical polyuria: diabetes insipidus in pregnancy. <i>Lancet, The</i> , 2022, 399, 1809.	6.3	0
79	Evaluation of Preconception Dietary Patterns in Women Enrolled in a Multisite Study. <i>Current Developments in Nutrition</i> , 2022, 6, nzac106.	0.1	0