Ming Liu

List of Publications by Year in descending order

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126708 128067 4,477 126 33 60 citations h-index g-index papers 144 144 144 5257 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Insulin Storage and Glucose Homeostasis in Mice Null for the Granule Zinc Transporter ZnT8 and Studies of the Type 2 Diabetes–Associated Variants. Diabetes, 2009, 58, 2070-2083.	0.3	347
2	Seven mutations in the human insulin gene linked to permanent neonatal/infancy-onset diabetes mellitus. Journal of Clinical Investigation, 2008, 118, 2148-56.	3.9	189
3	Proinsulin maturation, misfolding, and proteotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15841-15846.	3.3	157
4	Quantitative H2S-mediated protein sulfhydration reveals metabolic reprogramming during the integrated stress response. ELife, 2015, 4, e10067.	2.8	154
5	Proinsulin misfolding and diabetes: mutant INS gene-induced diabetes of youth. Trends in Endocrinology and Metabolism, 2010, 21, 652-659.	3.1	149
6	Proinsulin misfolding and endoplasmic reticulum stress during the development and progression of diabetesa ⁻ †. Molecular Aspects of Medicine, 2015, 42, 105-118.	2.7	143
7	Biosynthesis, structure, and folding of the insulin precursor protein. Diabetes, Obesity and Metabolism, 2018, 20, 28-50.	2.2	140
8	Loss of mTORC1 signalling impairs \hat{l}^2 -cell homeostasis and insulin processing. Nature Communications, 2017, 8, 16014.	5.8	125
9	Autophagy is a major regulator of beta cell insulin homeostasis. Diabetologia, 2016, 59, 1480-1491.	2.9	117
10	INS-gene mutations: From genetics and beta cell biology to clinical disease. Molecular Aspects of Medicine, 2015, 42, 3-18.	2.7	106
11	Proinsulin misfolding is an early event in the progression to type 2 diabetes. ELife, 2019, 8, .	2.8	103
12	Mutant INS-Gene Induced Diabetes of Youth: Proinsulin Cysteine Residues Impose Dominant-Negative Inhibition on Wild-Type Proinsulin Transport. PLoS ONE, 2010, 5, e13333.	1,1	100
13	Proinsulin Disulfide Maturation and Misfolding in the Endoplasmic Reticulum. Journal of Biological Chemistry, 2005, 280, 13209-13212.	1.6	98
14	Maternal diet–induced microRNAs and mTOR underlie β cell dysfunction in offspring. Journal of Clinical Investigation, 2014, 124, 4395-4410.	3.9	96
15	Regulation of sphingolipid synthesis via Orm1 and Orm2 in yeast. Journal of Cell Science, 2012, 125, 2428-35.	1.2	77
16	Proinsulin Intermolecular Interactions during Secretory Trafficking in Pancreatic \hat{l}^2 Cells. Journal of Biological Chemistry, 2013, 288, 1896-1906.	1.6	77
17	Proinsulin Entry and Transit Through the Endoplasmic Reticulum in Pancreatic Beta Cells. Vitamins and Hormones, 2014, 95, 35-62.	0.7	69
18	PDIA1/P4HB is required for efficient proinsulin maturation and ß cell health in response to diet induced obesity. ELife, 2019, 8, .	2.8	69

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19	Misfolded Proinsulin Affects Bystander Proinsulin in Neonatal Diabetes. Journal of Biological Chemistry, 2010, 285, 685-694.	1.6	67
20	Impaired Cleavage of Preproinsulin Signal Peptide Linked to Autosomal-Dominant Diabetes. Diabetes, 2012, 61, 828-837.	0.3	61
21	Gender and Age Impacts on the Association Between Thyroid Function and Metabolic Syndrome in Chinese. Medicine (United States), 2015, 94, e2193.	0.4	59
22	Misfolded proinsulin in the endoplasmic reticulum during development of beta cell failure in diabetes. Annals of the New York Academy of Sciences, 2018, 1418, 5-19.	1.8	57
23	Action of Protein Disulfide Isomerase on Proinsulin Exit from Endoplasmic Reticulum of Pancreatic β-Cells. Journal of Biological Chemistry, 2012, 287, 43-47.	1.6	56
24	Inefficient Translocation of Preproinsulin Contributes to Pancreatic \hat{l}^2 Cell Failure and Late-onset Diabetes. Journal of Biological Chemistry, 2014, 289, 16290-16302.	1.6	55
25	Hepatic Sel1Lâ€Hrd1 ERâ€essociated degradation (ERAD) manages FGF21 levels and systemic metabolism via CREBH. EMBO Journal, 2018, 37, .	3. 5	55
26	Deficiency of ATP2C1, a Golgi Ion Pump, Induces Secretory Pathway Defects in Endoplasmic Reticulum (ER)-associated Degradation and Sensitivity to ER Stress. Journal of Biological Chemistry, 2005, 280, 9467-9473.	1.6	54
27	Sel1L-Hrd1 ER-associated degradation maintains \hat{l}^2 cell identity via TGF- \hat{l}^2 signaling. Journal of Clinical Investigation, 2020, 130, 3499-3510.	3.9	52
28	Role of the Connecting Peptide in Insulin Biosynthesis. Journal of Biological Chemistry, 2003, 278, 14798-14805.	1.6	50
29	Endoplasmic Reticulum (ER) Chaperone Regulation and Survival of Cells Compensating for Deficiency in the ER Stress Response Kinase, PERK. Journal of Biological Chemistry, 2008, 283, 17020-17029.	1.6	47
30	Disulfide Mispairing During Proinsulin Folding in the Endoplasmic Reticulum. Diabetes, 2016, 65, 1050-1060.	0.3	47
31	Neuronatin regulates pancreatic \hat{l}^2 cell insulin content and secretion. Journal of Clinical Investigation, 2018, 128, 3369-3381.	3.9	47
32	Comparative effectiveness of bariatric surgeries in patients with obesity and type 2 diabetes mellitus: A network metaâ€analysis of randomized controlled trials. Obesity Reviews, 2020, 21, e13030.	3.1	46
33	Efficacy and safety of onceâ€weekly semaglutide versus onceâ€daily sitagliptin as addâ€on to metformin in patients with type 2 diabetes in <scp>SUSTAIN China</scp> : A 30â€week, doubleâ€blind, phase 3a, randomized trial. Diabetes, Obesity and Metabolism, 2021, 23, 404-414.	2.2	45
34	A Conserved Histidine in Insulin Is Required for the Foldability of Human Proinsulin. Journal of Biological Chemistry, 2006, 281, 24889-24899.	1.6	42
35	Normal and defective pathways in biogenesis and maintenance of the insulin storage pool. Journal of Clinical Investigation, 2021, 131, .	3.9	39
36	Positive charge in the n-region of the signal peptide contributes to efficient post-translational translocation of small secretory preproteins. Journal of Biological Chemistry, 2018, 293, 1899-1907.	1.6	37

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37	Adiponectin preserves metabolic fitness during aging. ELife, 2021, 10, .	2.8	37
38	Endoplasmic Reticulum Oxidoreductin- \hat{l} (Ero \hat{l}) Improves Folding and Secretion of Mutant Proinsulin and Limits Mutant Proinsulin-induced Endoplasmic Reticulum Stress. Journal of Biological Chemistry, 2013, 288, 31010-31018.	1.6	36
39	PDI reductase acts on (i>Akita (i>mutant proinsulin to initiate retrotranslocation along the Hrd1/Sel1L-p97 axis. Molecular Biology of the Cell, 2015, 26, 3413-3423.	0.9	36
40	In Vivo Misfolding of Proinsulin Below the Threshold of Frank Diabetes. Diabetes, 2011, 60, 2092-2101.	0.3	35
41	Preoperative Management of Pheochromocytoma and Paraganglioma. Frontiers in Endocrinology, 2020, 11, 586795.	1.5	35
42	Crystal Structure of a "Nonfoldable―Insulin. Journal of Biological Chemistry, 2009, 284, 35259-35272.	1.6	34
43	Dorzagliatin in drug-na \tilde{A} -ve patients with type 2 diabetes: a randomized, double-blind, placebo-controlled phase 3 trial. Nature Medicine, 2022, 28, 965-973.	15.2	33
44	Waist Circumference and its Changes Are More Strongly Associated with the Risk of Type 2 Diabetes than Body Mass Index and Changes in Body Weight in Chinese Adults. Journal of Nutrition, 2020, 150, 1259-1265.	1.3	31
45	COPII-Dependent ER Export: A Critical Component of Insulin Biogenesis and \hat{I}^2 -Cell ER Homeostasis. Molecular Endocrinology, 2015, 29, 1156-1169.	3.7	30
46	Evolution of insulin at the edge of foldability and its medical implications. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29618-29628.	3.3	30
47	Endoplasmic reticulum stress and apoptosis via PERK-eIF2α-CHOP signaling in the methamphetamine-induced chronic pulmonary injury. Environmental Toxicology and Pharmacology, 2017, 49, 194-201.	2.0	29
48	Gender and Age Impact on the Association Between Thyroid-Stimulating Hormone and Serum Lipids. Medicine (United States), 2015, 94, e2186.	0.4	27
49	No associations exist between mean platelet volume or platelet distribution width and thyroid function in Chinese. Medicine (United States), 2016, 95, e4573.	0.4	27
50	A distinct role of STING in regulating glucose homeostasis through insulin sensitivity and insulin secretion. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	26
51	Behavior in the Eukaryotic Secretory Pathway of Insulin-containing Fusion Proteins and Single-chain Insulins Bearing Various B-chain Mutations. Journal of Biological Chemistry, 2003, 278, 3687-3693.	1.6	25
52	Activation of NF- \hat{P} B-Inducing Kinase in Islet \hat{I}^2 Cells Causes \hat{I}^2 Cell Failure and Diabetes. Molecular Therapy, 2020, 28, 2430-2441.	3.7	25
53	Competitive Inhibition of the Endoplasmic Reticulum Signal Peptidase by Non-cleavable Mutant Preprotein Cargos. Journal of Biological Chemistry, 2015, 290, 28131-28140.	1.6	24
54	Islet α-cell Inflammation Induced By NF-κB inducing kinase (NIK) Leads to Hypoglycemia, Pancreatitis, Growth Retardation, and Postnatal Death in Mice. Theranostics, 2018, 8, 5960-5971.	4.6	24

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55	Role of Proinsulin Self-Association in Mutant <i>INS</i> Gene–Induced Diabetes of Youth. Diabetes, 2020, 69, 954-964.	0.3	24
56	The associations between leukocyte, erythrocyte or platelet, and metabolic syndrome in different genders of Chinese. Medicine (United States), 2016, 95, e5189.	0.4	23
57	Contribution of Residue B5 to the Folding and Function of Insulin and IGF-I. Journal of Biological Chemistry, 2010, 285, 5040-5055.	1.6	22
58	Effects of obesity and a history of gestational diabetes on the risk of postpartum diabetes and hyperglycemia in Chinese women. Diabetes Research and Clinical Practice, 2019, 156, 107828.	1.1	22
59	Relationship between mean platelet volume and metabolic syndrome in Chinese patients. Scientific Reports, 2018, 8, 14574.	1.6	21
60	Requirement for translocon-associated protein (TRAP) \hat{l}_{\pm} in insulin biogenesis. Science Advances, 2019, 5, eaax0292.	4.7	21
61	Endoplasmic reticulum–associated degradation is required for nephrin maturation and kidney glomerular filtration function. Journal of Clinical Investigation, 2021, 131, .	3.9	21
62	Dominant protein interactions that influence the pathogenesis of conformational diseases. Journal of Clinical Investigation, 2013, 123, 3124-3134.	3.9	21
63	Single-Chain Insulins as Receptor Agonists. Molecular Endocrinology, 2009, 23, 679-688.	3.7	19
64	Defective Transport of the Obesity Mutant PC1/3 N222D Contributes to Loss of Function. Endocrinology, 2014, 155, 2391-2401.	1.4	18
65	Distinct states of proinsulin misfolding in MIDY. Cellular and Molecular Life Sciences, 2021, 78, 6017-6031.	2.4	18
66	Deciphering the Hidden Informational Content of Protein Sequences. Journal of Biological Chemistry, 2010, 285, 30989-31001.	1.6	17
67	Unbiased Profiling of the Human Proinsulin Biosynthetic Interaction Network Reveals a Role for Peroxiredoxin 4 in Proinsulin Folding. Diabetes, 2020, 69, 1723-1734.	0.3	17
68	Serum uric acid and its change with the risk of type 2 diabetes: A prospective study in China. Primary Care Diabetes, 2021, 15, 1002-1006.	0.9	17
69	The relationship between red blood cell distribution width and metabolic syndrome in elderly Chinese: a cross-sectional study. Lipids in Health and Disease, 2019, 18, 34.	1.2	16
70	Efficacy and safety of insulin degludec/insulin aspart versus biphasic insulin aspart 30 in Chinese adults with type 2 diabetes: A phase III, openâ€label, 2:1 randomized, treatâ€toâ€target trial. Diabetes, Obesity and Metabolism, 2019, 21, 1652-1660.	2.2	16
71	Waist Circumference and Subclinical Thyroid Dysfunction in a Large Cohort of Chinese Men and Women. Endocrine Practice, 2018, 24, 733-739.	1.1	15
72	Defective endoplasmic reticulum export causes proinsulin misfolding in pancreatic \hat{l}^2 cells. Molecular and Cellular Endocrinology, 2019, 493, 110470.	1.6	15

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73	Gender- and Age-Specific Differences in the Association of Hyperuricemia and Hypertension: A Cross-Sectional Study. International Journal of Endocrinology, 2019, 2019, 1-9.	0.6	15
74	Endogenous Lipid-GPR120 Signaling Modulates Pancreatic Islet Homeostasis to Different Extents. Diabetes, 2022, 71, 1454-1471.	0.3	14
75	Proteomics analysis of rough endoplasmic reticulum inÂpancreatic beta cells. Proteomics, 2015, 15, 1508-1511.	1.3	13
76	4E-BP2/SH2B1/IRS2 Are Part of a Novel Feedback Loop That Controls \hat{l}^2 -Cell Mass. Diabetes, 2016, 65, 2235-2248.	0.3	13
77	The association between total bilirubin and serum triglyceride in both sexes in Chinese. Lipids in Health and Disease, 2018, 17, 217.	1.2	12
78	Determining the optimal fasting glucose target for patients with type 2 diabetes: Results of the multicentre, openâ€label, randomizedâ€controlled FPG GOAL trial. Diabetes, Obesity and Metabolism, 2019, 21, 1973-1977.	2.2	12
79	Prognostic value and dynamics of antithyroglobulin antibodies for differentiated thyroid carcinoma. Biomarkers in Medicine, 2020, 14, 1683-1692.	0.6	12
80	Impaired Glucose-Stimulated Proinsulin Secretion Is an Early Marker of \hat{l}^2 -Cell Impairment Before Prediabetes Stage. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 4341-4346.	1.8	11
81	Misfolded proinsulin impairs processing of precursor of insulin receptor and insulin signaling in \hat{l}^2 cells. FASEB Journal, 2019, 33, 11338-11348.	0.2	11
82	Gender-Specific Differences on the Association of Hypertension with Subclinical Thyroid Dysfunction. International Journal of Endocrinology, 2019, 2019, 1-9.	0.6	11
83	Biological behaviors of mutant proinsulin contribute to the phenotypic spectrum of diabetes associated with insulin gene mutations. Molecular and Cellular Endocrinology, 2020, 518, 111025.	1.6	11
84	"Register-shift―insulin analogs uncover constraints of proteotoxicity in protein evolution. Journal of Biological Chemistry, 2020, 295, 3080-3098.	1.6	11
85	Deficient endoplasmic reticulum transloconâ€associated protein complex limits the biosynthesis of proinsulin and insulin. FASEB Journal, 2021, 35, e21515.	0.2	11
86	No associations exists between red blood cell distribution width and serum uric acid in both sexes. Medicine (United States), 2018, 97, e12707.	0.4	10
87	Endocrine Manifestations in POEMS Syndrome: a case report and literature review. BMC Endocrine Disorders, 2019, 19, 33.	0.9	9
88	\hat{l}^2 -Cell function or insulin resistance was associated with the risk of type 2 diabetes among women with or without obesity and a history of gestational diabetes. BMJ Open Diabetes Research and Care, 2020, 8, e001060.	1,2	9
89	Serum Uric Acid Levels and Nonalcoholic Fatty Liver Disease: A 2-Sample Bidirectional Mendelian Randomization Study. Journal of Clinical Endocrinology and Metabolism, 2022, 107, e3497-e3503.	1.8	9
90	Efficacy and safety benefits of <scp>iGlarLixi</scp> versus insulin glargine 100 U/ <scp>mL</scp> or lixisenatide in Asian Pacific people with suboptimally controlled type 2 diabetes on oral agents: The <scp>LixiLanâ€Oâ€AP</scp> randomized controlled trial. Diabetes, Obesity and Metabolism, 2022, 24, 1522-1533.	2.2	9

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91	An unusual case of ectopic corticotrophin-releasing hormone syndrome caused by an adrenal noncatecholamine-secreting pheochromocytoma: a case report. BMC Endocrine Disorders, 2018, 18, 41.	0.9	8
92	Association between platelet distribution width and serum uric acid in Chinese population. BioFactors, 2019, 45, 326-334.	2.6	7
93	Ectopic insulinoma diagnosed by 68Ga-Exendin-4 PET/CT. Medicine (United States), 2021, 100, e25076.	0.4	7
94	Defective insulin maturation in patients with type 2 diabetes. European Journal of Endocrinology, 2021, 185, 565-576.	1.9	7
95	<scp>DUAL II</scp> China: Superior <scp>HbA1c</scp> reductions and weight loss with insulin degludec/liraglutide (<scp>IDegLira</scp>) versus insulin degludec in a randomized trial of Chinese people with type 2 diabetes inadequately controlled on basal insulin. Diabetes, Obesity and Metabolism, 2021, 23, 2687-2696.	2.2	7
96	Neonatal Diabetes: Permanent Neonatal Diabetes and Transient Neonatal Diabetes. Frontiers in Diabetes, 2017, , 1-25.	0.4	6
97	Prediction model of random forest for the risk of hyperuricemia in a Chinese basic health checkup test. Bioscience Reports, 2021, 41, .	1.1	6
98	Cell death–associated lipid droplet protein CIDE-A is a noncanonical marker of endoplasmic reticulum stress. JCI Insight, 2021, 6, .	2.3	6
99	Sodium-glucose cotransporter 2 inhibitors benefit to kidney and cardiovascular outcomes for patients with type 2 diabetes mellitus and chronic kidney disease 3b-4: A systematic review and meta-analysis of randomized clinical trials. Diabetes Research and Clinical Practice, 2021, 180, 109033.	1.1	6
100	F25P preproinsulin abrogates the secretion of pro-growth factors from EGFRvIII cells and suppresses tumor growth in an EGFRvIII/wt heterogenic model. Cancer Letters, 2016, 380, 1-9.	3.2	5
101	Comparative long-term effectiveness and safety of primary bariatric surgeries in treating type 2 diabetes mellitus in adults: a protocol for systematic review and network meta-analysis of randomised controlled trials. BMJ Open, 2019, 9, e028430.	0.8	5
102	No obvious association exists between red blood cell distribution width and thyroid function. Biomarkers in Medicine, 2019, 13, 1363-1372.	0.6	5
103	Molecular aspects of pancreatic beta cell failure and diabetes. Molecular Aspects of Medicine, 2015, 42, 1-2.	2.7	4
104	Gender impact on the correlation between thyroid function and serum lipids in patients with differentiated thyroid cancer. Experimental and Therapeutic Medicine, 2016, 12, 2873-2880.	0.8	4
105	The different associations between platelet distribution width and hypertension subtypes in males and females. Bioscience Reports, 2020, 40, .	1.1	4
106	A Novel Nonsense INS Mutation Causes Inefficient Preproinsulin Translocation Into the Endoplasmic Reticulum. Frontiers in Endocrinology, 2021, 12, 774634.	1.5	4
107	Maternal gestational diabetes and childhood hyperlipidemia. Diabetic Medicine, 2021, 38, e14606.	1.2	3
108	Association of subtle alterations in thyroid function with presarcopenia in patients with type 2 diabetes mellitus. Journal of Diabetes Investigation, 2021, , .	1.1	3

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109	The Role of TRAPÎ ³ /SSR3 in Preproinsulin Translocation Into the Endoplasmic Reticulum. Diabetes, 2022, 71, 440-452.	0.3	3
110	Differential regulation of lipopolysaccharide-induced IL- \hat{l}^2 and TNF- \hat{l}^\pm production in macrophages by palmitate via modulating TLR4 downstream signaling. International Immunopharmacology, 2022, 103, 108456.	1.7	3
111	An intron mutation of HNF1A causes abnormal splicing and impairs its activity as a transcription factor. Molecular and Cellular Endocrinology, 2022, 545, 111575.	1.6	3
112	Vitamin D Status and All-Cause Mortality in Patients With Type 2 Diabetes in China. Frontiers in Endocrinology, 2022, 13, 794947.	1.5	3
113	The Association Between Body Mass Index and Subclinical Thyroid Dysfunction in Different Sexes of Chinese. Endocrine Practice, 2019, 25, 1166-1175.	1.1	2
114	Development and validation of a novel index for the differential diagnosis of corticotropinâ€dependent Cushing syndrome. Pituitary, 2021, 24, 507-516.	1.6	2
115	Different Indicators of Adiposity and Fat Distribution and Cardiometabolic Risk Factors in Patients with Type 2 Diabetes. Obesity, 2021, 29, 837-845.	1.5	2
116	Functional characterization of a loss-of-function mutant I324M of arginine vasopressin receptor 2 in X-linked nephrogenic diabetes insipidus. Scientific Reports, 2021, 11, 11057.	1.6	2
117	Cardiovascular Risk Factor Status in Hospitalized Patients With Type 2 Diabetes in China. Frontiers in Endocrinology, 2021, 12, 664183.	1.5	2
118	Insulin Degludec/Insulin Aspart (IDegAsp) Twice Daily (BID) vs. Biphasic Insulin Aspart 30 (BIAsp 30) BID—A Randomized Trial in Chinese Patients with Type 2 Diabetes. Diabetes, 2018, 67, 91-LB.	0.3	2
119	Comparative Cardio-Renal Outcomes of Type 2 Diabetes Patients Administered Glucagon-Like Peptide-1 Receptor Agonists: A Network Meta-Analysis. Frontiers in Pharmacology, 2021, 12, 759262.	1.6	2
120	Maintaining the thyroid gland in mutant thyroglobulin–induced hypothyroidism requires thyroid cell proliferation that must continue in adulthood. Journal of Biological Chemistry, 2022, 298, 102066.	1.6	2
121	No obvious association exists between mean platelet volume and hypertension subtypes. Biomarkers in Medicine, 2021, 15, 577-584.	0.6	1
122	Associations among FT ₄ level, FT ₃ /FT ₄ ratio, and non-alcoholic fatty liver disease in Chinese patients with hypopituitarism. Endocrine Journal, 2022, 69, 659-667.	0.7	1
123	Correlation of dehydroepiandrosterone with diabetic nephropathy and its clinical value in early detection. Journal of Diabetes Investigation, 2022, 13, 1695-1702.	1.1	1
124	microRNAs in Pregnancy: Implications for Basic Research and Clinical Management., 2019,, 313-333.		0
125	1096-P: Determining the Optimal Fasting Glucose Target for Patients with Type 2 Diabetes: Results of the FPG Goal Trial. Diabetes, 2019, 68, .	0.3	0
126	A case of atypical reninoma with mild hypertension and normal plasma renin activity but elevated plasma renin concentration. BMC Endocrine Disorders, 2022, 22, 71.	0.9	0