

Zhenqi Liu

List of Publications by Year in descending order

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94
papers

4,498
citations

101496

36
h-index

110317

64
g-index

95
all docs

95
docs citations

95
times ranked

8101
citing authors

#	ARTICLE	IF	CITATIONS
1	Hepatic Autophagy Is Suppressed in the Presence of Insulin Resistance and Hyperinsulinemia. <i>Journal of Biological Chemistry</i> , 2009, 284, 31484-31492.	1.6	330
2	Diabetic Microvascular Disease: An Endocrine Society Scientific Statement. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 4343-4410.	1.8	323
3	Obesity Blunts Insulin-Mediated Microvascular Recruitment in Human Forearm Muscle. <i>Diabetes</i> , 2006, 55, 1436-1442.	0.3	262
4	Glucagon-Like Peptide 1 Recruits Microvasculature and Increases Glucose Use in Muscle via a Nitric Oxide-Dependent Mechanism. <i>Diabetes</i> , 2012, 61, 888-896.	0.3	158
5	Insulin regulates its own delivery to skeletal muscle by feed-forward actions on the vasculature. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E252-E263.	1.8	144
6	Insulin at Physiological Concentrations Selectively Activates Insulin But Not Insulin-Like Growth Factor I (IGF-I) or Insulin/IGF-I Hybrid Receptors in Endothelial Cells. <i>Endocrinology</i> , 2005, 146, 4690-4696.	1.4	131
7	Tumor Necrosis Factor- α Induces Insulin Resistance in Endothelial Cells via a p38 Mitogen-Activated Protein Kinase-Dependent Pathway. <i>Endocrinology</i> , 2007, 148, 3356-3363.	1.4	113
8	Increased basal level of Akt-dependent insulin signaling may be responsible for the development of insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E898-E906.	1.8	102
9	Infusing Lipid Raises Plasma Free Fatty Acids and Induces Insulin Resistance in Muscle Microvasculature. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 3543-3549.	1.8	99
10	Soyasaponins Can Blunt Inflammation by Inhibiting the Reactive Oxygen Species-Mediated Activation of PI3K/Akt/NF- κ B Pathway. <i>PLoS ONE</i> , 2014, 9, e107655.	1.1	96
11	Human protein metabolism: its measurement and regulation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 283, E1105-E1112.	1.8	87
12	Insulin Signaling Stimulates Insulin Transport by Bovine Aortic Endothelial Cells. <i>Diabetes</i> , 2008, 57, 540-547.	0.3	85
13	Insulin Is a Stronger Inducer of Insulin Resistance than Hyperglycemia in Mice with Type 1 Diabetes Mellitus (T1DM). <i>Journal of Biological Chemistry</i> , 2009, 284, 27090-27100.	1.6	81
14	The vascular endothelial cell mediates insulin transport into skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E323-E332.	1.8	78
15	Angiotensin II Type 1 and Type 2 Receptors Regulate Basal Skeletal Muscle Microvascular Volume and Glucose Use. <i>Hypertension</i> , 2010, 55, 523-530.	1.3	75
16	Free Fatty Acids Induce Insulin Resistance in Both Cardiac and Skeletal Muscle Microvasculature in Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, 438-446.	1.8	73
17	Amino Acids Stimulate Translation Initiation and Protein Synthesis through an Akt-Independent Pathway in Human Skeletal Muscle. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002, 87, 5553-5558.	1.8	70
18	p38 Mitogen-Activated Protein Kinase: A Critical Node Linking Insulin Resistance and Cardiovascular Diseases in Type 2 Diabetes Mellitus. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , 2009, 9, 38-46.	0.6	70

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19	The endothelial cell: An "early responder" in the development of insulin resistance. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2013, 14, 21-27.	2.6	68
20	Branched Chain Amino Acids Activate Messenger Ribonucleic Acid Translation Regulatory Proteins in Human Skeletal Muscle, and Glucocorticoids Blunt This Action. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001, 86, 2136-2143.	1.8	67
21	GLP-1 at physiological concentrations recruits skeletal and cardiac muscle microvasculature in healthy humans. <i>Clinical Science</i> , 2014, 127, 163-170.	1.8	64
22	p38 Mitogen-Activated Protein Kinase Mediates Palmitate-Induced Apoptosis But Not Inhibitor of Nuclear Factor- κ B Degradation in Human Coronary Artery Endothelial Cells. <i>Endocrinology</i> , 2007, 148, 1622-1628.	1.4	59
23	Angiotensin II Receptors Modulate Muscle Microvascular and Metabolic Responses to Insulin In Vivo. <i>Diabetes</i> , 2011, 60, 2939-2946.	0.3	59
24	Glucagon-Like Peptide 1 Recruits Muscle Microvasculature and Improves Insulin's Metabolic Action in the Presence of Insulin Resistance. <i>Diabetes</i> , 2014, 63, 2788-2799.	0.3	57
25	The Regulation of Body and Skeletal Muscle Protein Metabolism by Hormones and Amino Acids. <i>Journal of Nutrition</i> , 2006, 136, 212S-217S.	1.3	53
26	The Trafficking/Interaction of eNOS and Caveolin-1 Induced by Insulin Modulates Endothelial Nitric Oxide Production. <i>Molecular Endocrinology</i> , 2009, 23, 1613-1623.	3.7	53
27	Protein kinase A mediates glucagon-like peptide 1-induced nitric oxide production and muscle microvascular recruitment. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E222-E228.	1.8	53
28	Long-term high-fat diet induces hippocampal microvascular insulin resistance and cognitive dysfunction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 312, E89-E97.	1.8	52
29	Prolonged Exposure to Insulin Suppresses Mitochondrial Production in Primary Hepatocytes. <i>Journal of Biological Chemistry</i> , 2009, 284, 14087-14095.	1.6	51
30	The renin-angiotensin system and insulin resistance. <i>Current Diabetes Reports</i> , 2007, 7, 34-42.	1.7	50
31	Vascular function, insulin action, and exercise: an intricate interplay. <i>Trends in Endocrinology and Metabolism</i> , 2015, 26, 297-304.	3.1	49
32	Activation of Sirtuin 1 Attenuates High Glucose-Induced Neuronal Apoptosis by Deacetylating p53. <i>Frontiers in Endocrinology</i> , 2018, 9, 274.	1.5	47
33	Inflammation-induced microvascular insulin resistance is an early event in diet-induced obesity. <i>Clinical Science</i> , 2015, 129, 1025-1036.	1.8	46
34	Glucocorticoids modulate amino acid-induced translation initiation in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 287, E275-E281.	1.8	42
35	Insulin at physiological concentrations increases microvascular perfusion in human myocardium. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E1250-E1255.	1.8	42
36	Hypertension Management and Microvascular Insulin Resistance in Diabetes. <i>Current Hypertension Reports</i> , 2010, 12, 243-251.	1.5	42

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37	Ranolazine recruits muscle microvasculature and enhances insulin action in rats. <i>Journal of Physiology</i> , 2013, 591, 5235-5249.	1.3	39
38	Growth Hormone Exerts Acute Vascular Effects Independent of Systemic or Muscle Insulin-like Growth Factor I. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008, 93, 1379-1385.	1.8	38
39	Insulin and Insulin-Like Growth Factor-I Receptors Differentially Mediate Insulin-Stimulated Adhesion Molecule Production by Endothelial Cells. <i>Endocrinology</i> , 2009, 150, 3475-3482.	1.4	37
40	Salsalate Attenuates Free Fatty Acid-Induced Microvascular and Metabolic Insulin Resistance in Humans. <i>Diabetes Care</i> , 2011, 34, 1634-1638.	4.3	37
41	Unlike insulin, amino acids stimulate p70S6K but not GSK-3 or glycogen synthase in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 286, E523-E528.	1.8	36
42	Globular Adiponectin Enhances Muscle Insulin Action via Microvascular Recruitment and Increased Insulin Delivery. <i>Circulation Research</i> , 2013, 112, 1263-1271.	2.0	36
43	The Effect of Exercise Intensity on Endothelial Function in Physically Inactive Lean and Obese Adults. <i>PLoS ONE</i> , 2014, 9, e85450.	1.1	36
44	Globular adiponectin ameliorates metabolic insulin resistance via AMPK-mediated restoration of microvascular insulin responses. <i>Journal of Physiology</i> , 2015, 593, 4067-4079.	1.3	33
45	Liraglutide prevents microvascular insulin resistance and preserves muscle capillary density in high-fat diet-fed rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E640-E648.	1.8	33
46	Angiotensin-(1-7) Recruits Muscle Microvasculature and Enhances Insulin's Metabolic Action via Mas Receptor. <i>Hypertension</i> , 2014, 63, 1219-1227.	1.3	32
47	Past, present and future of latent autoimmune diabetes in adults. <i>Diabetes/Metabolism Research and Reviews</i> , 2020, 36, e3205.	1.7	32
48	Losartan increases muscle insulin delivery and rescues insulin's metabolic action during lipid infusion via microvascular recruitment. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E538-E545.	1.8	30
49	Vasodilatory Actions of Glucagon-Like Peptide 1 Are Preserved in Skeletal and Cardiac Muscle Microvasculature but Not in Conduit Artery in Obese Humans With Vascular Insulin Resistance. <i>Diabetes Care</i> , 2020, 43, 634-642.	4.3	30
50	Fulminant type 1 diabetes after COVID-19 vaccination. <i>Diabetes and Metabolism</i> , 2022, 48, 101324.	1.4	30
51	Tetramethylpyrazine Ameliorates High Glucose-Induced Endothelial Dysfunction by Increasing Mitochondrial Biogenesis. <i>PLoS ONE</i> , 2014, 9, e88243.	1.1	29
52	More than an Anti-diabetic Bariatric Surgery, Metabolic Surgery Alleviates Systemic and Local Inflammation in Obesity. <i>Obesity Surgery</i> , 2018, 28, 3658-3668.	1.1	29
53	Insulin and insulin signaling play a critical role in fat induction of insulin resistance in mouse. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E391-E401.	1.8	28
54	Muscle Insulin Resistance and the Inflamed Microvasculature: Fire from Within. <i>International Journal of Molecular Sciences</i> , 2019, 20, 562.	1.8	27

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55	Adrenalectomy enhances the insulin sensitivity of muscle protein synthesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 284, E102-E109.	1.8	26
56	Resveratrol recruits rat muscle microvasculature via a nitric oxide-dependent mechanism that is blocked by TNF α . <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E195-E201.	1.8	25
57	Exercise resistance across the prediabetes phenotypes: Impact on insulin sensitivity and substrate metabolism. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2016, 17, 81-90.	2.6	25
58	Insulin and glucose suppress hepatic glycogenolysis by distinct enzymatic mechanisms. <i>Metabolism: Clinical and Experimental</i> , 1993, 42, 1546-1551.	1.5	24
59	Mitochondrial glycerol 3-phosphate dehydrogenase promotes skeletal muscle regeneration. <i>EMBO Molecular Medicine</i> , 2018, 10, .	3.3	24
60	Identification of autoimmune type 1 diabetes and multiple organ-specific autoantibodies in adult-onset non-insulin-requiring diabetes in China: A population-based multicentre nationwide survey. <i>Diabetes, Obesity and Metabolism</i> , 2019, 21, 893-902.	2.2	24
61	Microvascular Perfusion and Intramuscular Temperature of the Calf during Cooling. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 850-856.	0.2	23
62	Adiponectin and insulin cross talk: The microvascular connection. <i>Trends in Cardiovascular Medicine</i> , 2014, 24, 319-324.	2.3	22
63	Diabetes pathogenesis and management: the endothelium comes of age. <i>Journal of Molecular Cell Biology</i> , 2021, 13, 500-512.	1.5	21
64	Activation of p38 mitogen-activated protein kinase abolishes insulin-mediated myocardial protection against ischemia-reperfusion injury. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 294, E183-E189.	1.8	20
65	Variation in Type 2 Diabetes-Related Phenotypes among Apolipoprotein E-Deficient Mouse Strains. <i>PLoS ONE</i> , 2015, 10, e0120935.	1.1	20
66	DPP4 Activity, Hyperinsulinemia, and Atherosclerosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 1553-1565.	1.8	20
67	Exposure to excess insulin (glargine) induces type 2 diabetes mellitus in mice fed on a chow diet. <i>Journal of Endocrinology</i> , 2014, 221, 469-480.	1.2	19
68	Identification of a distinct phenotype of elderly latent autoimmune diabetes in adults: LADA China Study 8. <i>Diabetes/Metabolism Research and Reviews</i> , 2019, 35, e3068.	1.7	19
69	Tetraspanin 7 autoantibodies predict progressive decline of beta cell function in individuals with LADA. <i>Diabetologia</i> , 2019, 62, 399-407.	2.9	19
70	GLP-1 and insulin regulation of skeletal and cardiac muscle microvascular perfusion in type 2 diabetes. <i>Journal of Diabetes</i> , 2020, 12, 488-498.	0.8	17
71	Improvements in humoral immune function and glucolipid metabolism after laparoscopic sleeve gastrectomy in patients with obesity. <i>Surgery for Obesity and Related Diseases</i> , 2019, 15, 1455-1463.	1.0	16
72	Brain Endothelial Cells Regulate Glucagon-Like Peptide 1 Entry Into the Brain via a Receptor-Mediated Process. <i>Frontiers in Physiology</i> , 2020, 11, 555.	1.3	16

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73	The vascular endothelium in diabetes and its potential as a therapeutic target. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2013, 14, 1-3.	2.6	15
74	GLP-1 and Insulin Recruit Muscle Microvasculature and Dilate Conduit Artery Individually But Not Additively in Healthy Humans. <i>Journal of the Endocrine Society</i> , 2018, 2, 190-206.	0.1	15
75	Direct Activation of Angiotensin II Type 2 Receptors Enhances Muscle Microvascular Perfusion, Oxygenation, and Insulin Delivery in Male Rats. <i>Endocrinology</i> , 2018, 159, 685-695.	1.4	14
76	Global and Regional Effects of Bladder Cancer Risk Associated with Pioglitazone Therapy in Patients with Diabetes. <i>Scientific Reports</i> , 2017, 7, 15804.	1.6	13
77	Mechanistic Causes of Reduced Cardiorespiratory Fitness in Type 2 Diabetes. <i>Journal of the Endocrine Society</i> , 2020, 4, bvaa063.	0.1	13
78	Gestational Primary Hyperparathyroidism Due to Ectopic Parathyroid Adenoma: Case Report and Literature Review. <i>Journal of the Endocrine Society</i> , 2017, 1, 1150-1155.	0.1	12
79	Metformin prevents endothelial oxidative stress and microvascular insulin resistance during obesity development in male rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 322, E293-E306.	1.8	12
80	Activation of glycogen synthase in myocardium induced by intermittent hypoxia is much lower in fasted than in fed rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E469-E475.	1.8	11
81	Candesartan Acutely Recruits Skeletal and Cardiac Muscle Microvasculature in Healthy Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, E1208-E1212.	1.8	10
82	Regulation of Muscle Microcirculation in Health and Diabetes. <i>Diabetes and Metabolism Journal</i> , 2012, 36, 83.	1.8	10
83	A single bout of exercise improves vascular insulin sensitivity in adults with obesity. <i>Obesity</i> , 2021, 29, 1487-1496.	1.5	10
84	Inhibiting myeloperoxidase prevents onset and reverses established high-fat diet-induced microvascular insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E1063-E1069.	1.8	9
85	Acute psychological stress, autonomic function, and arterial stiffness among women. <i>International Journal of Psychophysiology</i> , 2020, 155, 219-226.	0.5	9
86	Metformin improves skeletal muscle microvascular insulin resistance in metabolic syndrome. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 322, E173-E180.	1.8	9
87	A Small Amount of Dietary Carbohydrate Can Promote the HFD-Induced Insulin Resistance to a Maximal Level. <i>PLoS ONE</i> , 2014, 9, e100875.	1.1	8
88	Corticomedullary mixed tumour resembling a small adrenal gland-involvement of cancer stem cells: case report. <i>BMC Endocrine Disorders</i> , 2017, 17, 9.	0.9	6
89	Anaemia and Related Nutritional Deficiencies in Chinese Patients with Obesity, 12 Months Following Laparoscopic Sleeve Gastrectomy. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2021, Volume 14, 1575-1587.	1.1	5
90	Perfusion controls muscle glucose uptake by altering the rate of glucose dispersion in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 318, E311-E312.	1.8	4

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91	Insulin-mediated muscle microvascular perfusion and its phenotypic predictors in humans. Scientific Reports, 2021, 11, 11433.	1.6	4
92	A rare hereditary and metastatic paraganglioma involved in both spermatic cord and testis. Endocrine, 2019, 65, 217-218.	1.1	3
93	Drug Development Strategy for Type 2 Diabetes: Targeting Positive Energy Balances. Current Drug Targets, 2019, 20, 879-890.	1.0	3
94	Cellular Basis of Insulin Resistance: A Tale of the Microvasculature. , 2021, , 315-331.		0