Hanrui Zhang

List of Publications by Year
in descending order

69 papers	3,997 citations	159585 30 h-index	123424 61 g-index
71 all docs	71 docs citations	71 times ranked	6963 citing authors

#	Article	IF	Citations
1	Role of TNF-Î± in vascular dysfunction. Clinical Science, 2009, 116, 219-230.	4.3	541
2	Resveratrol induces mitochondrial biogenesis in endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H13-H20.	3.2	378
3	Single-Cell Genomics Reveals a Novel Cell State During Smooth Muscle Cell Phenotypic Switching and Potential Therapeutic Targets for Atherosclerosis in Mouse and Human. Circulation, 2020, 142, 2060-2075.	1.6	292
4	Circadian control of innate immunity in macrophages by miR-155 targeting Bmal1. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7231-7236.	7.1	244
5	Cholesterol Efflux Pathways Suppress Inflammasome Activation, NETosis, and Atherogenesis. Circulation, 2018, 138, 898-912.	1.6	208
6	Resveratrol Improves Endothelial Function. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1164-1171.	2.4	195
7	AGE/RAGE produces endothelial dysfunction in coronary arterioles in Type 2 diabetic mice. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H491-H498.	3.2	148
8	Functional Analysis and Transcriptomic Profiling of iPSC-Derived Macrophages and Their Application in Modeling Mendelian Disease. Circulation Research, 2015, 117, 17-28.	4.5	120
9	Resveratrol improves left ventricular diastolic relaxation in type 2 diabetes by inhibiting oxidative/nitrative stress: in vivo demonstration with magnetic resonance imaging. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H985-H994.	3.2	106
10	The link between metabolic abnormalities and endothelial dysfunction in type 2 diabetes: an update. Basic Research in Cardiology, 2012, 107, 237.	5.9	104
11	Feed-forward signaling of TNF-Î± and NF-ÎºB via IKK-Î² pathway contributes to insulin resistance and coronary arteriolar dysfunction in type 2 diabetic mice. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1850-H1858.	3.2	101
12	Lysosomal Acid Lipase in Lipid Metabolism and Beyond. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 850-856.	2.4	98
13	Interaction of IL-6 and TNF-Î± contributes to endothelial dysfunction in type 2 diabetic mouse hearts. PLoS ONE, 2017, 12, e0187189.	2.5	95
14	Role of TNF-Î±-induced reactive oxygen species in endothelial dysfunction during reperfusion injury. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H2242-H2249.	3.2	78
15	The long noncoding RNA landscape in hypoxic and inflammatory renal epithelial injury. American Journal of Physiology - Renal Physiology, 2015, 309, F901-F913.	2.7	70
16	ABO Blood Groups and Cardiovascular Diseases. International Journal of Vascular Medicine, 2012, 2012, 1-11.	1.0	67
17	Effect of PAR2 in regulating TNF-Î± and NAD(P)H oxidase in coronary arterioles in type 2 diabetic mice. Basic Research in Cardiology, 2011, 106, 111-123.	5.9	61
18	Role of inflammation in the regulation of coronary blood flow in ischemia and reperfusion: Mechanisms and therapeutic implications. Journal of Molecular and Cellular Cardiology, 2012, 52, 865-872.	1.9	59

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19	Bariatric Surgery Reduces Visceral Adipose Inflammation and Improves Endothelial Function in Type 2 Diabetic Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2063-2069.	2.4	58
20	Lysosomal acid lipase and lipid metabolism: new mechanisms, new questions, and new therapies. Current Opinion in Lipidology, 2018, 29, 218-223.	2.7	57
21	Adiponectin abates diabetes-induced endothelial dysfunction by suppressing oxidative stress, adhesion molecules, and inflammation in type 2 diabetic mice. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H106-H115.	3.2	54
22	From Loci to Biology. Circulation Research, 2016, 118, 586-606.	4.5	54
23	Role of MCP-1 in tumor necrosis factor-Î±-induced endothelial dysfunction in type 2 diabetic mice. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H1208-H1216.	3.2	49
24	Adipose â€œTalksâ€•to Distant Organs to Regulate Insulin Sensitivity and Vascular Function. Obesity, 2010, 18, 2071-2076.	3.0	48
25	Regulation of Microvascular Function by Adipose Tissue in Obesity and Type 2 Diabetes: Evidence of an Adipose-Vascular. American Journal of Biomedical Sciences, 2009, 1, 133-142.	0.2	44
26	Coronary and Aortic Endothelial Function Affected by Feedback Between Adiponectin and Tumor Necrosis Factor Î± in Type 2 Diabetic Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 2156-2163.	2.4	42
27	ASEP: Gene-based detection of allele-specific expression across individuals in a population by RNA sequencing. PLoS Genetics, 2020, 16, e1008786.	3.5	42
28	Emerging role of adipokines as mediators in atherosclerosis. World Journal of Cardiology, 2010, 2, 370.	1.5	42
29	The reciprocal relationship between adiponectin and LOX-1 in the regulation of endothelial dysfunction in ApoE knockout mice. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H605-H612.	3.2	39
30	Vascular transcriptional alterations produced by juvenile obesity in Ossabaw swine. Physiological Genomics, 2013, 45, 434-446.	2.3	36
31	Deep RNA Sequencing Uncovers a Repertoire of Human Macrophage Long Intergenic Noncoding RNAs Modulated by Macrophage Activation and Associated With Cardiometabolic Diseases. Journal of the American Heart Association, 2017, 6, .	3.7	36
32	Transcriptome-Wide Analysis Reveals Modulation of Human Macrophage Inflammatory Phenotype Through Alternative Splicing. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1434-1447.	2.4	35
33	ABO Blood Group as a Model for Platelet Glycan Modification in Arterial Thrombosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1570-1578.	2.4	32
34	Interferon-gamma induced adipose tissue inflammation is linked to endothelial dysfunction in type 2 diabetic mice. Basic Research in Cardiology, 2011, 106, 1135-1145.	5.9	31
35	Deficiency of macrophage PHACTR1 impairs efferocytosis and promotes atherosclerotic plaque necrosis. Journal of Clinical Investigation, 2021, 131, .	8.2	31
36	CRISPR/Cas9-Mediated Gene Editing in Human iPSC-Derived Macrophage Reveals Lysosomal Acid Lipase Function in Human Macrophagesâ€”Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 2156-2160.	2.4	30

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37	Human Induced Pluripotent Stem Cellâ€“Derived Macrophages for Unraveling Human Macrophage Biology. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 2000-2006.	2.4	25
38	Expression of Calgranulin Genes S100A8, S100A9 and S100A12 Is Modulated by n-3 PUFA during Inflammation in Adipose Tissue and Mononuclear Cells. PLoS ONE, 2017, 12, e0169614.	2.5	24
39	Vasoprotection by Dietary Supplements and Exercise: Role of TNFÎ±Signaling. Experimental Diabetes Research, 2012, 2012, 1-6.	3.8	23
40	New hypothesis for insulin resistance in hypertension due to receptor cleavage. Expert Review of Endocrinology and Metabolism, 2010, 5, 149-158.	2.4	22
41	Cholesterol and Lipoprotein Metabolism. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1791-1794.	2.4	18
42	Differentiation of Humanâ€Induced Pluripotent Stem Cells to Macrophages for Disease Modeling and Functional Genomics. Current Protocols in Stem Cell Biology, 2019, 48, e74.	3.0	18
43	LIPA Variants in Genome-Wide Association Studies of Coronary Artery Diseases. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1015-1017.	2.4	15
44	PennDiff: detecting differential alternative splicing and transcription by RNA sequencing. Bioinformatics, 2018, 34, 2384-2391.	4.1	14
45	Vascular dysfunction in Type 2 diabetes: emerging targets for therapy. Expert Review of Cardiovascular Therapy, 2009, 7, 209-213.	1.5	13
46	Functional Characterization of LIPA (Lysosomal Acid Lipase) Variants Associated With Coronary Artery Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 2480-2491.	2.4	13
47	Anti-Inflammatory Effects of High-Density Lipoprotein Through Activating Transcription Factor 3. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, e11-2.	2.4	9
48	Regulation of Coronary Endothelial Function by Interactions between TNF-Î±, LOX-1 and Adiponectin in Apolipoprotein E Knockout Mice. Journal of Vascular Research, 2015, 52, 372-382.	1.4	9
49	IRF2BP2. Circulation Research, 2015, 117, 656-658.	4.5	9
50	De novo RNA sequence assembly during in vivo inflammatory stress reveals hundreds of unannotated lincRNAs in human blood CD14+ monocytes and in adipose tissue. Physiological Genomics, 2017, 49, 287-305.	2.3	9
51	Synergistic Modulation of Inflammatory but not Metabolic Effects of Highâ€Fat Feeding by CCR2 and CX3CR1. Obesity, 2017, 25, 1410-1420.	3.0	7
52	Functional Genomics and CRISPR Applied to Cardiovascular Research and Medicine. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, e188-e194.	2.4	7
53	Who Done It?. Circulation Research, 2018, 123, 1106-1108.	4.5	6
54	First Giant Steps Toward a Cell Atlas of Atherosclerosis. Circulation Research, 2018, 122, 1632-1634.	4.5	6

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55	Translational and Therapeutic Approaches to the Understanding and Treatment of Dyslipidemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, e56-61.	2.4	4
56	Tissue-Specific Differential Expression of Novel Genes and Long Intergenic Noncoding RNAs in Humans With Extreme Response to Evoked Endotoxemia. Circulation Genomic and Precision Medicine, 2018, 11, e001907.	3.6	4
57	Clarifying the Distinct Roles of Smooth Muscle Cellâ€"Derived Versus Macrophage Foam Cells and the Implications in Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 2035-2037.	2.4	4
58	Alternate Day Fasting Improves Endothelial Function in Type 2 Diabetic Mice: Role of Adipose-Derived Hormones. Frontiers in Cardiovascular Medicine, 2022, 9, .	2.4	4
59	What Makes a Great Mentor: Interviews With Recipients of the ATVB Mentor of Women Award. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 2641-2647.	2.4	3
60	New discovery of Netrin-1 in cardioprotection. Journal of Molecular and Cellular Cardiology, 2010, 48, 1033-1035.	1.9	2
61	ILRUN Promotes Atherosclerosis Through Lipid-Dependent and Lipid-Independent Factors. Arteriosclerosis, Thrombosis, and Vascular Biology, 0, , .	2.4	2
62	Novel mechanistic links between high-protein diets and atherosclerosis. Nature Metabolism, 2020, 2, 7-8.	11.9	1
63	Diabetic Vascular Disease. , 2012, , 1321-1328.		0
64	EXTRA VIRGIN OLIVE OIL AND VASCULAR HEALTH. FASEB Journal, 2008, 22, 63-63.	0.5	0
65	Resveratrol Protects against Oxidative Stressâ€Induced Endothelial Dysfunction in Type II Diabetes. FASEB Journal, 2008, 22, 42-42.	0.5	0
66	Glycogenome signatures in complex cardiometabolic disease (789.4). FASEB Journal, 2014, 28, 789.4.	0.5	0
67	Break on Through to the Other Side: How Trained Monocytes Promote Recovery From Hind Limb Ischemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, 42, 189-192.	2.4	0
68	Abstract 11646: ATVB Outstanding Research Award : WDFY3 is Required for the Efficient Degradation of Engulfed Apoptotic Cells by Macrophages During Efferocytosis. Circulation, 2021, 144, .	1.6	0
69	Abstract 10865: Elucidating the Variant-to-Function Relationship for LIPA, a Risk Locus of Coronary Artery Diseases. Circulation, 2021, 144, .	1.6	0