

Hanrui Zhang

List of Publications by Year in descending order

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69
papers

3,997
citations

159358

30
h-index

123241

61
g-index

71
all docs

71
docs citations

71
times ranked

6963
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of TNF- α in vascular dysfunction. <i>Clinical Science</i> , 2009, 116, 219-230.	1.8	541
2	Resveratrol induces mitochondrial biogenesis in endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H13-H20.	1.5	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. <i>Circulation</i> , 2020, 142, 2060-2075.	1.6	292
4	Circadian control of innate immunity in macrophages by miR-155 targeting <i>Bmal1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7231-7236.	3.3	244
5	Cholesterol Efflux Pathways Suppress Inflammasome Activation, NETosis, and Atherogenesis. <i>Circulation</i> , 2018, 138, 898-912.	1.6	208
6	Resveratrol Improves Endothelial Function. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1164-1171.	1.1	195
7	AGE/RAGE produces endothelial dysfunction in coronary arterioles in Type 2 diabetic mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H491-H498.	1.5	148
8	Functional Analysis and Transcriptomic Profiling of iPSC-Derived Macrophages and Their Application in Modeling Mendelian Disease. <i>Circulation Research</i> , 2015, 117, 17-28.	2.0	120
9	Resveratrol improves left ventricular diastolic relaxation in type 2 diabetes by inhibiting oxidative/nitrative stress: in vivo demonstration with magnetic resonance imaging. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H985-H994.	1.5	106
10	The link between metabolic abnormalities and endothelial dysfunction in type 2 diabetes: an update. <i>Basic Research in Cardiology</i> , 2012, 107, 237.	2.5	104
11	Feed-forward signaling of TNF- α and NF- κ B via IKK- β pathway contributes to insulin resistance and coronary arteriolar dysfunction in type 2 diabetic mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1850-H1858.	1.5	101
12	Lysosomal Acid Lipase in Lipid Metabolism and Beyond. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 850-856.	1.1	98
13	Interaction of IL-6 and TNF- α contributes to endothelial dysfunction in type 2 diabetic mouse hearts. <i>PLoS ONE</i> , 2017, 12, e0187189.	1.1	95
14	Role of TNF- α -induced reactive oxygen species in endothelial dysfunction during reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H2242-H2249.	1.5	78
15	The long noncoding RNA landscape in hypoxic and inflammatory renal epithelial injury. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, F901-F913.	1.3	70
16	ABO Blood Groups and Cardiovascular Diseases. <i>International Journal of Vascular Medicine</i> , 2012, 2012, 1-11.	0.4	67
17	Effect of PAR2 in regulating TNF- α and NAD(P)H oxidase in coronary arterioles in type 2 diabetic mice. <i>Basic Research in Cardiology</i> , 2011, 106, 111-123.	2.5	61
18	Role of inflammation in the regulation of coronary blood flow in ischemia and reperfusion: Mechanisms and therapeutic implications. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 865-872.	0.9	59

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19	Bariatric Surgery Reduces Visceral Adipose Inflammation and Improves Endothelial Function in Type 2 Diabetic Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 2063-2069.	1.1	58
20	Lysosomal acid lipase and lipid metabolism: new mechanisms, new questions, and new therapies. <i>Current Opinion in Lipidology</i> , 2018, 29, 218-223.	1.2	57
21	Adiponectin abates diabetes-induced endothelial dysfunction by suppressing oxidative stress, adhesion molecules, and inflammation in type 2 diabetic mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 303, H106-H115.	1.5	54
22	From Loci to Biology. <i>Circulation Research</i> , 2016, 118, 586-606.	2.0	54
23	Role of MCP-1 in tumor necrosis factor- α -induced endothelial dysfunction in type 2 diabetic mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H1208-H1216.	1.5	49
24	Adipose α -Talks to Distant Organs to Regulate Insulin Sensitivity and Vascular Function. <i>Obesity</i> , 2010, 18, 2071-2076.	1.5	48
25	Regulation of Microvascular Function by Adipose Tissue in Obesity and Type 2 Diabetes: Evidence of an Adipose-Vascular. <i>American Journal of Biomedical Sciences</i> , 2009, 1, 133-142.	0.2	44
26	Coronary and Aortic Endothelial Function Affected by Feedback Between Adiponectin and Tumor Necrosis Factor α in Type 2 Diabetic Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 2156-2163.	1.1	42
27	ASEP: Gene-based detection of allele-specific expression across individuals in a population by RNA sequencing. <i>PLoS Genetics</i> , 2020, 16, e1008786.	1.5	42
28	Emerging role of adipokines as mediators in atherosclerosis. <i>World Journal of Cardiology</i> , 2010, 2, 370.	0.5	42
29	The reciprocal relationship between adiponectin and LOX-1 in the regulation of endothelial dysfunction in ApoE knockout mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H605-H612.	1.5	39
30	Vascular transcriptional alterations produced by juvenile obesity in Ossabaw swine. <i>Physiological Genomics</i> , 2013, 45, 434-446.	1.0	36
31	Deep RNA Sequencing Uncovers a Repertoire of Human Macrophage Long Intergenic Noncoding RNAs Modulated by Macrophage Activation and Associated With Cardiometabolic Diseases. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	36
32	Transcriptome-Wide Analysis Reveals Modulation of Human Macrophage Inflammatory Phenotype Through Alternative Splicing. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 1434-1447.	1.1	35
33	ABO Blood Group as a Model for Platelet Glycan Modification in Arterial Thrombosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1570-1578.	1.1	32
34	Interferon-gamma induced adipose tissue inflammation is linked to endothelial dysfunction in type 2 diabetic mice. <i>Basic Research in Cardiology</i> , 2011, 106, 1135-1145.	2.5	31
35	Deficiency of macrophage PHACTR1 impairs efferocytosis and promotes atherosclerotic plaque necrosis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	31
36	CRISPR/Cas9-Mediated Gene Editing in Human iPSC-Derived Macrophage Reveals Lysosomal Acid Lipase Function in Human Macrophages Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 2156-2160.	1.1	30

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37	Human Induced Pluripotent Stem Cell-Derived Macrophages for Unraveling Human Macrophage Biology. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 2000-2006.	1.1	25
38	Expression of Calgranulin Genes S100A8, S100A9 and S100A12 Is Modulated by n-3 PUFA during Inflammation in Adipose Tissue and Mononuclear Cells. <i>PLoS ONE</i> , 2017, 12, e0169614.	1.1	24
39	Vasoprotection by Dietary Supplements and Exercise: Role of TNF Signaling. <i>Experimental Diabetes Research</i> , 2012, 2012, 1-6.	3.8	23
40	New hypothesis for insulin resistance in hypertension due to receptor cleavage. <i>Expert Review of Endocrinology and Metabolism</i> , 2010, 5, 149-158.	1.2	22
41	Cholesterol and Lipoprotein Metabolism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1791-1794.	1.1	18
42	Differentiation of Human-Induced Pluripotent Stem Cells to Macrophages for Disease Modeling and Functional Genomics. <i>Current Protocols in Stem Cell Biology</i> , 2019, 48, e74.	3.0	18
43	LIPA Variants in Genome-Wide Association Studies of Coronary Artery Diseases. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1015-1017.	1.1	15
44	PennDiff: detecting differential alternative splicing and transcription by RNA sequencing. <i>Bioinformatics</i> , 2018, 34, 2384-2391.	1.8	14
45	Vascular dysfunction in Type 2 diabetes: emerging targets for therapy. <i>Expert Review of Cardiovascular Therapy</i> , 2009, 7, 209-213.	0.6	13
46	Functional Characterization of LIPA (Lysosomal Acid Lipase) Variants Associated With Coronary Artery Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2480-2491.	1.1	13
47	Anti-Inflammatory Effects of High-Density Lipoprotein Through Activating Transcription Factor 3. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, e11-2.	1.1	9
48	Regulation of Coronary Endothelial Function by Interactions between TNF, LOX-1 and Adiponectin in Apolipoprotein E Knockout Mice. <i>Journal of Vascular Research</i> , 2015, 52, 372-382.	0.6	9
49	IRF2BP2. <i>Circulation Research</i> , 2015, 117, 656-658.	2.0	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. <i>Physiological Genomics</i> , 2017, 49, 287-305.	1.0	9
51	Synergistic Modulation of Inflammatory but not Metabolic Effects of High-Fat Feeding by CCR2 and CX3CR1. <i>Obesity</i> , 2017, 25, 1410-1420.	1.5	7
52	Functional Genomics and CRISPR Applied to Cardiovascular Research and Medicine. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, e188-e194.	1.1	7
53	Who Done It?. <i>Circulation Research</i> , 2018, 123, 1106-1108.	2.0	6
54	First Giant Steps Toward a Cell Atlas of Atherosclerosis. <i>Circulation Research</i> , 2018, 122, 1632-1634.	2.0	6

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55	Translational and Therapeutic Approaches to the Understanding and Treatment of Dyslipidemia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, e56-61.	1.1	4
56	Tissue-Specific Differential Expression of Novel Genes and Long Intergenic Noncoding RNAs in Humans With Extreme Response to Evoked Endotoxemia. <i>Circulation Genomic and Precision Medicine</i> , 2018, 11, e001907.	1.6	4
57	Clarifying the Distinct Roles of Smooth Muscle Cell-Derived Versus Macrophage Foam Cells and the Implications in Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2035-2037.	1.1	4
58	Alternate Day Fasting Improves Endothelial Function in Type 2 Diabetic Mice: Role of Adipose-Derived Hormones. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	1.1	4
59	What Makes a Great Mentor: Interviews With Recipients of the ATVB Mentor of Women Award. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2641-2647.	1.1	3
60	New discovery of Netrin-1 in cardioprotection. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 1033-1035.	0.9	2
61	ILRUN Promotes Atherosclerosis Through Lipid-Dependent and Lipid-Independent Factors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 0, , .	1.1	2
62	Novel mechanistic links between high-protein diets and atherosclerosis. <i>Nature Metabolism</i> , 2020, 2, 7-8.	5.1	1
63	Diabetic Vascular Disease. , 2012, , 1321-1328.		0
64	EXTRA VIRGIN OLIVE OIL AND VASCULAR HEALTH. <i>FASEB Journal</i> , 2008, 22, 63-63.	0.2	0
65	Resveratrol Protects against Oxidative Stress-Induced Endothelial Dysfunction in Type II Diabetes. <i>FASEB Journal</i> , 2008, 22, 42-42.	0.2	0
66	Glycogenome signatures in complex cardiometabolic disease (789.4). <i>FASEB Journal</i> , 2014, 28, 789.4.	0.2	0
67	Break on Through to the Other Side: How Trained Monocytes Promote Recovery From Hind Limb Ischemia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2022, 42, 189-192.	1.1	0
68	Abstract 11646: <i>ATVB Outstanding Research Award</i> : WDFY3 is Required for the Efficient Degradation of Engulfed Apoptotic Cells by Macrophages During Efferocytosis. <i>Circulation</i> , 2021, 144, .	1.6	0
69	Abstract 10865: Elucidating the Variant-to-Function Relationship for LIPA, a Risk Locus of Coronary Artery Diseases. <i>Circulation</i> , 2021, 144, .	1.6	0