

Ming-Hui Zou

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

5,082
citations

81743

39
h-index

95083

68
g-index

85
all docs

85
docs citations

85
times ranked

8398
citing authors

#	ARTICLE	IF	CITATIONS
1	Metformin Suppresses Diabetes-Accelerated Atherosclerosis via the Inhibition of Drp1-Mediated Mitochondrial Fission. <i>Diabetes</i> , 2017, 66, 193-205.	0.3	281
2	Tryptophan-kynurenine pathway is dysregulated in inflammation and immune activation. <i>Frontiers in Bioscience - Landmark</i> , 2015, 20, 1116-1143.	3.0	260
3	AMPK $\hat{I}\pm 2$ Protects Against the Development of Heart Failure by Enhancing Mitophagy via PINK1 Phosphorylation. <i>Circulation Research</i> , 2018, 122, 712-729.	2.0	250
4	SIRT2 Acts as a Cardioprotective Deacetylase in Pathological Cardiac Hypertrophy. <i>Circulation</i> , 2017, 136, 2051-2067.	1.6	224
5	Age-Associated Sirtuin 1 Reduction in Vascular Smooth Muscle Links Vascular Senescence and Inflammation to Abdominal Aortic Aneurysm. <i>Circulation Research</i> , 2016, 119, 1076-1088.	2.0	196
6	Binding of FUN14 Domain Containing 1 With Inositol 1,4,5-Trisphosphate Receptor in Mitochondria-Associated Endoplasmic Reticulum Membranes Maintains Mitochondrial Dynamics and Function in Hearts in Vivo. <i>Circulation</i> , 2017, 136, 2248-2266.	1.6	193
7	Gut-dependent microbial translocation induces inflammation and cardiovascular events after ST-elevation myocardial infarction. <i>Microbiome</i> , 2018, 6, 66.	4.9	185
8	Hyperglycemia-Driven Inhibition of AMP-Activated Protein Kinase $\hat{I}\pm 2$ Induces Diabetic Cardiomyopathy by Promoting Mitochondria-Associated Endoplasmic Reticulum Membranes In Vivo. <i>Circulation</i> , 2019, 139, 1913-1936.	1.6	166
9	Abnormal kynurenine pathway of tryptophan catabolism in cardiovascular diseases. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 2899-2916.	2.4	149
10	Mitochondrial ROS and cancer drug resistance: Implications for therapy. <i>Pharmacological Research</i> , 2015, 100, 170-174.	3.1	146
11	Activation of AMPK $\hat{I}\pm 2$ in adipocytes is essential for nicotine-induced insulin resistance in vivo. <i>Nature Medicine</i> , 2015, 21, 373-382.	15.2	143
12	AMPK, Mitochondrial Function, and Cardiovascular Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4987.	1.8	108
13	AMP-ACTIVATED PROTEIN KINASE ACTIVATION AS A STRATEGY FOR PROTECTING VASCULAR ENDOTHELIAL FUNCTION. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2008, 35, 535-545.	0.9	106
14	Circulating miR-103a-3p contributes to angiotensin II-induced renal inflammation and fibrosis via a SNRK/NF- $\hat{I}\beta$ /p65 regulatory axis. <i>Nature Communications</i> , 2019, 10, 2145.	5.8	106
15	Identification of Nitric Oxide as an Endogenous Activator of the AMP-activated Protein Kinase in Vascular Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 27452-27461.	1.6	104
16	Immune Clearance of Senescent Cells to Combat Ageing and Chronic Diseases. <i>Cells</i> , 2020, 9, 671.	1.8	100
17	AMPK activation prevents excess nutrient-induced hepatic lipid accumulation by inhibiting mTORC1 signaling and endoplasmic reticulum stress response. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 1844-1854.	1.8	91
18	$\hat{I}\pm 2$ -Hydroxybutyrate Prevents Vascular Senescence through hnRNP A1-Mediated Upregulation of Oct4. <i>Molecular Cell</i> , 2018, 71, 1064-1078.e5.	4.5	89

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19	Regulation of interplay between autophagy and apoptosis in the diabetic heart. <i>Autophagy</i> , 2013, 9, 624-625.	4.3	88
20	Activation of NAD(P)H Oxidase by Tryptophan-Derived 3-Hydroxykynurenine Accelerates Endothelial Apoptosis and Dysfunction In Vivo. <i>Circulation Research</i> , 2014, 114, 480-492.	2.0	88
21	Myeloperoxidase Deletion Prevents High-Fat Diet-Induced Obesity and Insulin Resistance. <i>Diabetes</i> , 2014, 63, 4172-4185.	0.3	84
22	Ablation of Adenosine Monophosphate-Activated Protein Kinase $\hat{\pm}1$ in Vascular Smooth Muscle Cells Promotes Diet-Induced Atherosclerotic Calcification In Vivo. <i>Circulation Research</i> , 2016, 119, 422-433.	2.0	83
23	RIG-I and TLR3 are both required for maximum interferon induction by influenza virus in human lung alveolar epithelial cells. <i>Virology</i> , 2015, 482, 181-188.	1.1	82
24	Gefitinib-mediated Reactive Oxygen Specie (ROS) Instigates Mitochondrial Dysfunction and Drug Resistance in Lung Cancer Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 9101-9110.	1.6	80
25	Measurement of Reactive Oxygen Species (ROS) and Mitochondrial ROS in AMPK Knockout Mice Blood Vessels. <i>Methods in Molecular Biology</i> , 2018, 1732, 507-517.	0.4	77
26	Activation of AMP-activated Protein Kinase $\hat{\pm}1$ Alleviates Endothelial Cell Apoptosis by Increasing the Expression of Anti-apoptotic Proteins Bcl-2 and Survivin. <i>Journal of Biological Chemistry</i> , 2010, 285, 15346-15355.	1.6	74
27	$\hat{\pm}2$ -hydroxybutyrate and its metabolic effects on age-associated pathology. <i>Experimental and Molecular Medicine</i> , 2020, 52, 548-555.	3.2	72
28	AMP-Activated Protein Kinase Alpha 2 Deletion Induces VSMC Phenotypic Switching and Reduces Features of Atherosclerotic Plaque Stability. <i>Circulation Research</i> , 2016, 119, 718-730.	2.0	67
29	AMP-activated protein kinase $\hat{\pm}1$ promotes atherogenesis by increasing monocyte-to-macrophage differentiation. <i>Journal of Biological Chemistry</i> , 2017, 292, 7888-7903.	1.6	63
30	Deregulation of XBP1 expression contributes to myocardial vascular endothelial growth factor $\hat{\pm}A$ expression and angiogenesis during cardiac hypertrophy <i>in vivo</i> . <i>Aging Cell</i> , 2016, 15, 625-633.	3.0	60
31	AMPK Suppresses Vascular Inflammation In Vivo by Inhibiting Signal Transducer and Activator of Transcription-1. <i>Diabetes</i> , 2015, 64, 4285-4297.	0.3	58
32	Endothelial Cell-Specific Liver Kinase B1 Deletion Causes Endothelial Dysfunction and Hypertension in Mice In Vivo. <i>Circulation</i> , 2014, 129, 1428-1439.	1.6	57
33	Macrophage Liver Kinase B1 Inhibits Foam Cell Formation and Atherosclerosis. <i>Circulation Research</i> , 2017, 121, 1047-1057.	2.0	56
34	BRD4 inhibition by JQ1 prevents high-fat diet-induced diabetic cardiomyopathy by activating PINK1/Parkin-mediated mitophagy in vivo. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 149, 1-14.	0.9	54
35	Tryptophan-Derived 3-Hydroxyanthranilic Acid Contributes to Angiotensin II-Induced Abdominal Aortic Aneurysm Formation in Mice In Vivo. <i>Circulation</i> , 2017, 136, 2271-2283.	1.6	53
36	Oxidative Stress, GTPCH1, and Endothelial Nitric Oxide Synthase Uncoupling in Hypertension. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 750-764.	2.5	52

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37	A High-Fat Diet Attenuates AMPK $\hat{\pm}$ 1 in Adipocytes to Induce Exosome Shedding and Nonalcoholic Fatty Liver Development In Vivo. <i>Diabetes</i> , 2021, 70, 577-588.	0.3	49
38	Protein kinase LKB1 promotes RAB7-mediated neuropilin-1 degradation to inhibit angiogenesis. <i>Journal of Clinical Investigation</i> , 2014, 124, 4590-4602.	3.9	43
39	Activation of AMP-activated protein kinase by metformin ablates angiotensin II-induced endoplasmic reticulum stress and hypertension in mice <i>in vivo</i> . <i>British Journal of Pharmacology</i> , 2017, 174, 2140-2151.	2.7	41
40	Thromboxane A2 Receptor Activates a Rho-associated Kinase/LKB1/PTEN Pathway to Attenuate Endothelium Insulin Signaling. <i>Journal of Biological Chemistry</i> , 2009, 284, 17120-17128.	1.6	40
41	Targeting senescent cells to attenuate cardiovascular disease progression. <i>Ageing Research Reviews</i> , 2020, 60, 101072.	5.0	39
42	Phosphorylation of CHOP (C/EBP Homologous Protein) by the AMP-Activated Protein Kinase Alpha 1 in Macrophages Promotes CHOP Degradation and Reduces Injury-Induced Neointimal Disruption In Vivo. <i>Circulation Research</i> , 2016, 119, 1089-1100.	2.0	35
43	Deletion of <i>PRKAA</i> triggers mitochondrial fission by inhibiting the autophagy-dependent degradation of DNM1L. <i>Autophagy</i> , 2017, 13, 404-422.	4.3	35
44	Human primary airway epithelial cells isolated from active smokers have epigenetically impaired antiviral responses. <i>Respiratory Research</i> , 2016, 17, 111.	1.4	34
45	Propranolol exhibits activity against hemangiomas independent of beta blockade. <i>Npj Precision Oncology</i> , 2019, 3, 27.	2.3	32
46	PRKAA1/AMPK $\hat{\pm}$ 1 is required for autophagy-dependent mitochondrial clearance during erythrocyte maturation. <i>Autophagy</i> , 2014, 10, 1522-1534.	4.3	31
47	SNRK (Sucrose Nonfermenting 1-Related Kinase) Promotes Angiogenesis In Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 373-385.	1.1	31
48	Tyrosine Nitration of Prostacyclin Synthase Is Associated with Enhanced Retinal Cell Apoptosis in Diabetes. <i>American Journal of Pathology</i> , 2011, 179, 2835-2844.	1.9	28
49	Suppression of m6A mRNA modification by DNA hypermethylated ALKBH5 aggravates the oncological behavior of KRAS mutation/LKB1 loss lung cancer. <i>Cell Death and Disease</i> , 2021, 12, 518.	2.7	27
50	Phosphorylation of Serine 399 in LKB1 Protein Short Form by Protein Kinase C $\hat{\uparrow}$ Is Required for Its Nucleocytoplasmic Transport and Consequent AMP-activated Protein Kinase (AMPK) Activation. <i>Journal of Biological Chemistry</i> , 2013, 288, 16495-16505.	1.6	26
51	Chemokine receptors CXCR2 and CX3CR1 differentially regulate functional responses of bone-marrow endothelial progenitors during atherosclerotic plaque regression. <i>Cardiovascular Research</i> , 2015, 106, 324-337.	1.8	26
52	AMP-Activated Protein Kinase $\hat{\pm}$ 1 in Macrophages Promotes Collateral Remodeling and Arteriogenesis in Mice In Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 1868-1878.	1.1	25
53	Peroxynitrite-Mediated SIRT (Sirtuin)-1 Inactivation Contributes to Nicotine-Induced Arterial Stiffness in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 1419-1431.	1.1	25
54	A novel role for myeloid cell-specific neuropilin 1 in mitigating sepsis. <i>FASEB Journal</i> , 2017, 31, 2881-2892.	0.2	23

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55	Ablation of Neuropilin 1 in Myeloid Cells Exacerbates High-Fat Diet-Induced Insulin Resistance Through Nlrp3 Inflammasome In Vivo. <i>Diabetes</i> , 2017, 66, 2424-2435.	0.3	23
56	Endothelial Nitric Oxide Synthase-Derived Nitric Oxide Prevents Dihydrofolate Reductase Degradation via Promoting S-Nitrosylation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2366-2373.	1.1	22
57	Mitochondria-associated endoplasmic reticulum membranes in the heart. <i>Archives of Biochemistry and Biophysics</i> , 2019, 662, 201-212.	1.4	21
58	Autophagic degradation of KAT2A/GCN5 promotes directional migration of vascular smooth muscle cells by reducing TUBA1-tubulin acetylation. <i>Autophagy</i> , 2020, 16, 1753-1770.	4.3	21
59	Lipopolysaccharides Promote S-Nitrosylation and Proteasomal Degradation of Liver Kinase B1 (LKB1) in Macrophages in Vivo. <i>Journal of Biological Chemistry</i> , 2015, 290, 19011-19017.	1.6	20
60	AMPK1 deficiency promotes cellular proliferation and DNA damage via p21 reduction in mouse embryonic fibroblasts. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 65-73.	1.9	20
61	Electronic Cigarette Exposure Enhances Lung Inflammatory and Fibrotic Responses in COPD Mice. <i>Frontiers in Pharmacology</i> , 2021, 12, 726586.	1.6	18
62	Role of the Mitochondrial Protein Import Machinery and Protein Processing in Heart Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 749756.	1.1	18
63	Absence of AMPK2 accelerates cellular senescence via p16 induction in mouse embryonic fibroblasts. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 71, 72-80.	1.2	17
64	Hypochlorous acid via peroxynitrite activates protein kinase C δ and insulin resistance in adipocytes. <i>Journal of Molecular Endocrinology</i> , 2015, 54, 25-37.	1.1	16
65	Tryptophan Catabolism and Inflammation: A Novel Therapeutic Target For Aortic Diseases. <i>Frontiers in Immunology</i> , 2021, 12, 731701.	2.2	16
66	AMPK and Pulmonary Hypertension: Crossroads Between Vasoconstriction and Vascular Remodeling. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 691585.	1.8	14
67	Activation of AMPK1 is essential for regulatory T cell function and autoimmune liver disease prevention. <i>Cellular and Molecular Immunology</i> , 2021, 18, 2609-2617.	4.8	14
68	Deletion of <i>Ulk1</i> inhibits neointima formation by enhancing KAT2A/GCN5-mediated acetylation of TUBA1-tubulin in vivo. <i>Autophagy</i> , 2021, 17, 4305-4322.	4.3	13
69	Indoleamine 2,3-Dioxygenase 1 Deletion-Mediated Kynurenine Insufficiency in Vascular Smooth Muscle Cells Exacerbates Arterial Calcification. <i>Circulation</i> , 2022, 145, 1784-1798.	1.6	12
70	RIG-I overexpression decreases mortality of cigarette smoke exposed mice during influenza A virus infection. <i>Respiratory Research</i> , 2017, 18, 166.	1.4	10
71	AMP-activated protein kinase alpha1 promotes tumor development via FOXP3 elevation in tumor-infiltrating Treg cells. <i>Science</i> , 2022, 25, 103570.	1.9	10
72	Aberrant NRP-1 expression serves as predictor of metastatic endometrial and lung cancers. <i>Oncotarget</i> , 2016, 7, 7970-7978.	0.8	9

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73	Endothelial cell-specific expression of serine/threonine kinase 11 modulates dendritic cell differentiation. <i>Nature Communications</i> , 2022, 13, 648.	5.8	7
74	AMPK α 1 deletion in fibroblasts promotes tumorigenesis in athymic nude mice by p52-mediated elevation of erythropoietin and CDK2. <i>Oncotarget</i> , 2016, 7, 53654-53667.	0.8	6
75	Features of Lipid Metabolism in Humanized ApoE Knockin Rat Models. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8262.	1.8	5
76	Ablation of Interferon Regulatory Factor 3 Promotes the Stability of Atherosclerotic Plaques. <i>Hypertension</i> , 2017, 69, 407-408.	1.3	3
77	AMP-Activated Protein Kinase α 2 to the Rescue in Ischemic Heart. <i>Circulation Research</i> , 2017, 121, 1113-1115.	2.0	1
78	Loss of AMPK α 1 Triggers Centrosome Amplification via PLK4 Upregulation in Mouse Embryonic Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2772.	1.8	1
79	LKB1 in transmembrane receptor signaling. <i>Oncotarget</i> , 2015, 6, 16804-16805.	0.8	1
80	Myeloid cell neuropilin 1 ameliorates high-fat diet-induced insulin resistance via suppression of Nlrp3 inflammasome. <i>Macrophage</i> , 2017, 4, .	1.0	1
81	Protein kinase C α -dependent LKB1 phosphorylation at serine 428 induces LKB1 nuclear export and apoptosis in endothelial cells. <i>FASEB Journal</i> , 2008, 22, 648.12.	0.2	0
82	Abstract 460: Modulation of the SUMOylation of Fish Oil Receptor G-protein Coupled Receptor (GPR) 120 by AMP-activated Protein Kinase α 2 Controls the Anti-atherosclerotic Effects of Fish Oils in vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, .	1.1	0