

# Jun Cai

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

3,759  
citations

236833

25  
h-index

143943

57  
g-index

79  
all docs

79  
docs citations

79  
times ranked

4947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gut microbiota dysbiosis contributes to the development of hypertension. <i>Microbiome</i> , 2017, 5, 14.	4.9	1,086
2	Trial of Intensive Blood-Pressure Control in Older Patients with Hypertension. <i>New England Journal of Medicine</i> , 2021, 385, 1268-1279.	13.9	318
3	Prevalence of Ideal Cardiovascular Health and Its Relationship With the 4-Year Cardiovascular Events in a Northern Chinese Industrial City. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2012, 5, 487-493.	0.9	298
4	Metagenomic and metabolomic analyses unveil dysbiosis of gut microbiota in chronic heart failure patients. <i>Scientific Reports</i> , 2018, 8, 635.	1.6	218
5	Gut-dependent microbial translocation induces inflammation and cardiovascular events after ST-elevation myocardial infarction. <i>Microbiome</i> , 2018, 6, 66.	4.9	185
6	Disordered gut microbiota and alterations in metabolic patterns are associated with atrial fibrillation. <i>GigaScience</i> , 2019, 8, .	3.3	123
7	Primary Aldosteronism in Patients in China With Recently Detected Hypertension. <i>Journal of the American College of Cardiology</i> , 2020, 75, 1913-1922.	1.2	112
8	Sulhydrated Sirtuin-1 Increasing Its Deacetylation Activity Is an Essential Epigenetics Mechanism of Anti-Atherogenesis by Hydrogen Sulfide. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 184-197.	2.5	103
9	AK098656, a Novel Vascular Smooth Muscle Cellâ€œDominant Long Noncoding RNA, Promotes Hypertension. <i>Hypertension</i> , 2018, 71, 262-272.	1.3	80
10	The role of microRNAs in heart failure. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2019-2030.	1.8	66
11	Profiling and bioinformatics analyses reveal differential circular RNA expression in hypertensive patients. <i>Clinical and Experimental Hypertension</i> , 2017, 39, 454-459.	0.5	64
12	Gut microbes in cardiovascular diseases and their potential therapeutic applications. <i>Protein and Cell</i> , 2021, 12, 346-359.	4.8	62
13	Alterations of gut microbiota contribute to the progression of unruptured intracranial aneurysms. <i>Nature Communications</i> , 2020, 11, 3218.	5.8	56
14	Dysbiotic gut microbes may contribute to hypertension by limiting vitamin D production. <i>Clinical Cardiology</i> , 2019, 42, 710-719.	0.7	48
15	Cystathionine Î³-Lyaseâ€œHydrogen Sulfide Induces Runt-Related Transcription Factor 2 Sulhydration, Thereby Increasing Osteoblast Activity to Promote Bone Fracture Healing. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 742-753.	2.5	47
16	Vitamin D and hypertension: Prospective study and meta-analysis. <i>PLoS ONE</i> , 2017, 12, e0174298.	1.1	45
17	CD4 <sup>+</sup> T-Cell Endogenous Cystathionine Î³ Lyaseâ€œHydrogen Sulfide Attenuates Hypertension by Sulhydrating Liver Kinase B1 to Promote T Regulatory Cell Differentiation and Proliferation. <i>Circulation</i> , 2020, 142, 1752-1769.	1.6	43
18	Clinical course and prognostic factors of childhood Takayasuâ€™s arteritis: over 15-year comprehensive analysis of 101 patients. <i>Arthritis Research and Therapy</i> , 2019, 21, 31.	1.6	38

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19	MicroRNA-216a promotes M1 macrophages polarization and atherosclerosis progression by activating telomerase via the Smad3/NF- $\kappa$ B pathway. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 1772-1781.	1.8	36
20	miRNA Profiling of Exosomes from Spontaneous Hypertensive Rats Using Next-Generation Sequencing. <i>Journal of Cardiovascular Translational Research</i> , 2019, 12, 75-83.	1.1	36
21	Value of a Machine Learning Approach for Predicting Clinical Outcomes in Young Patients With Hypertension. <i>Hypertension</i> , 2020, 75, 1271-1278.	1.3	35
22	Gut microbiota production of trimethyl-5-aminovaleric acid reduces fatty acid oxidation and accelerates cardiac hypertrophy. <i>Nature Communications</i> , 2022, 13, 1757.	5.8	35
23	The effect of vitamin D supplementation on hypertension in non-CKD populations: A systemic review and meta-analysis. <i>International Journal of Cardiology</i> , 2017, 227, 177-186.	0.8	31
24	Mdivi-1, a mitochondrial fission inhibitor, reduces angiotensin-II- induced hypertension by mediating VSMC phenotypic switch. <i>Biomedicine and Pharmacotherapy</i> , 2021, 140, 111689.	2.5	30
25	A Novel Phenotype of Familial Hyperaldosteronism Type III: Concurrence of Aldosteronism and Cushing's Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 4290-4297.	1.8	29
26	Cystathionine beta synthase-hydrogen sulfide system in paraventricular nucleus reduced high fatty diet induced obesity and insulin resistance by brain-adipose axis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3281-3291.	1.8	29
27	The Role and Mechanism of Intestinal Flora in Blood Pressure Regulation and Hypertension Development. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 811-830.	2.5	28
28	Hydrogen sulfide lowers hyperhomocysteinemia dependent on cystathionine $\beta$ lyase S-sulfhydration in ApoE $\beta$ knockout atherosclerotic mice. <i>British Journal of Pharmacology</i> , 2019, 176, 3180-3192.	2.7	27
29	New drug targets for hypertension: A literature review. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166037.	1.8	25
30	Aortic Aneurysm in Takayasu Arteritis. <i>American Journal of the Medical Sciences</i> , 2017, 354, 539-547.	0.4	24
31	Cardiac Valve Involvement in Takayasu Arteritis Is Common: A Retrospective Study of 1,069 Patients Over 25 Years. <i>American Journal of the Medical Sciences</i> , 2018, 356, 357-364.	0.4	24
32	Roles of long noncoding RNAs in aging and aging complications. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 1763-1771.	1.8	24
33	The presentation and management of hypertension in a large cohort of Takayasu arteritis. <i>Clinical Rheumatology</i> , 2018, 37, 2781-2788.	1.0	22
34	Vascular smooth muscle cell-derived hydrogen sulfide promotes atherosclerotic plaque stability via TFEB (transcription factor EB)-mediated autophagy. <i>Autophagy</i> , 2022, 18, 2270-2287.	4.3	20
35	Hydrogen sulphide reduces hyperhomocysteinaemia-induced endothelial ER stress by sulfhydrating protein disulphide isomerase to attenuate atherosclerosis. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 3437-3448.	1.6	19
36	Ferroptosis due to Cystathionine $\beta$ Lyase/Hydrogen Sulfide Downregulation Under High Hydrostatic Pressure Exacerbates VSMC Dysfunction. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 829316.	1.8	19

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37	Apparent mineralocorticoid excess caused by novel compound heterozygous mutations in HSD11B2 and characterized by early-onset hypertension and hypokalemia. <i>Endocrine</i> , 2020, 70, 607-615.	1.1	15
38	Aortic Dissection in Takayasu Arteritis. <i>American Journal of the Medical Sciences</i> , 2017, 353, 342-352.	0.4	14
39	Genetic screening of <i>SCNN1B</i> and <i>SCNN1G</i> genes in early-onset hypertensive patients helps to identify Liddle syndrome. <i>Clinical and Experimental Hypertension</i> , 2018, 40, 107-111.	0.5	14
40	Pediatric Liddle Syndrome Caused by a Novel <i>SCNN1G</i> Variant in a Chinese Family and Characterized by Early-Onset Hypertension. <i>American Journal of Hypertension</i> , 2020, 33, 670-675.	1.0	14
41	An Application of Machine Learning to Etiological Diagnosis of Secondary Hypertension: Retrospective Study Using Electronic Medical Records. <i>JMIR Medical Informatics</i> , 2021, 9, e19739.	1.3	14
42	Novel Biomarkers for the Precise Diagnosis and Activity Classification of Takayasu Arteritis. <i>Circulation Genomic and Precision Medicine</i> , 2019, 12, e002080.	1.6	13
43	Genetic screening for Bartter syndrome and Gitelman syndrome pathogenic genes among individuals with hypertension and hypokalemia. <i>Clinical and Experimental Hypertension</i> , 2019, 41, 381-388.	0.5	12
44	Genetic screening for monogenic hypertension in hypertensive individuals in a clinical setting. <i>Journal of Medical Genetics</i> , 2020, 57, 571-580.	1.5	12
45	Cumulative mean arterial pressure and risks of adverse cardiac and cerebrovascular events: a prospective cohort study of 53,813 adults. <i>Journal of Human Hypertension</i> , 2018, 32, 585-593.	1.0	10
46	Clinical Course, Management, and Outcomes of Pediatric Takayasu Arteritis Initially Presenting With Hypertension: A 16-year overview. <i>American Journal of Hypertension</i> , 2019, 32, 1021-1029.	1.0	9
47	Surgical Treatment in Patients With Aortic Regurgitation Due to Takayasu Arteritis. <i>Annals of Thoracic Surgery</i> , 2020, 110, 165-171.	0.7	9
48	Liddle syndrome misdiagnosed as primary aldosteronism resulting from a novel frameshift mutation of <i>SCNN1B</i> . <i>Endocrine Connections</i> , 2018, 7, 1528-1534.	0.8	9
49	Effect of fecal microbiota transplantation on primary hypertension and the underlying mechanism of gut microbiome restoration: protocol of a randomized, blinded, placebo-controlled study. <i>Trials</i> , 2022, 23, 178.	0.7	9
50	Tuberculosis in Takayasu arteritis: a retrospective study in 1105 Chinese patients. <i>Journal of Geriatric Cardiology</i> , 2019, 16, 648-655.	0.2	8
51	The Bidirectional Signal Communication of Microbiota-Gut-Brain Axis in Hypertension. <i>International Journal of Hypertension</i> , 2021, 2021, 1-9.	0.5	8
52	Hypertension and Brachydactyly Syndrome Associated With Vertebral Artery Malformation Caused by a <i>PDE3A</i> Missense Mutation. <i>American Journal of Hypertension</i> , 2020, 33, 190-197.	1.0	7
53	Blood Pressure Variability Is Associated with Hearing and Hearing Loss: A Population-Based Study in Males. <i>International Journal of Hypertension</i> , 2019, 2019, 1-9.	0.5	7
54	Premature Stroke Secondary to Severe Hypertension Results from Liddle Syndrome Caused by a Novel <i>SCNN1B</i> Mutation. <i>Kidney and Blood Pressure Research</i> , 2020, 45, 603-611.	0.9	7

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55	Metformin inhibits HaCaT cell viability via the miR-21/PTEN/Akt signaling pathway. <i>Molecular Medicine Reports</i> , 2018, 17, 4062-4066.	1.1	6
56	Long-term blood pressure outcomes of patients with adrenal venous sampling-proven unilateral primary aldosteronism. <i>Journal of Human Hypertension</i> , 2020, 34, 440-447.	1.0	6
57	Clinical Scenario and Long-term Outcome of Childhood Takayasu Arteritis Undergoing 121 Endovascular Interventions: The Largest Cohort over a 15-year Period. <i>Arthritis Care and Research</i> , 2020, 73, 1678-1688.	1.5	6
58	p38/JNK Is Required for the Proliferation and Phenotype Changes of Vascular Smooth Muscle Cells Induced by L3MBTL4 in Essential Hypertension. <i>International Journal of Hypertension</i> , 2020, 2020, 1-12.	0.5	6
59	Blocking FcÎ³RIIB in Smooth Muscle Cells Reduces Hypertension. <i>Circulation Research</i> , 2021, 129, 308-325.	2.0	6
60	A Novel Frameshift Mutation of SCNN1G Causing Liddle Syndrome with Normokalemia. <i>American Journal of Hypertension</i> , 2019, 32, 752-758.	1.0	5
61	18F-FDG PET/CT plays a unique role in the management of Takayasu arteritis patients with atypical manifestations. <i>Clinical Rheumatology</i> , 2021, 40, 625-633.	1.0	5
62	Truncated Epithelial Sodium Channel Î² Subunit Responsible for Liddle Syndrome in a Chinese Family. <i>Kidney and Blood Pressure Research</i> , 2019, 44, 942-949.	0.9	4
63	Clinical characteristics and outcomes of chronic heart failure in adult Takayasu arteritis: A cohort study of 163 patients. <i>International Journal of Cardiology</i> , 2021, 325, 103-108.	0.8	4
64	Single cell transcriptomic analysis identifies novel vascular smooth muscle subsets under high hydrostatic pressure. <i>Science China Life Sciences</i> , 2021, 64, 1677-1690.	2.3	4
65	Genetic variants in Chinese patients with sporadic Stanford type A aortic dissection. <i>Journal of Thoracic Disease</i> , 2021, 13, 4008-4022.	0.6	4
66	The association between orthostatic blood pressure changes and subclinical target organ damage in subjects over 60 years old. <i>Journal of Geriatric Cardiology</i> , 2019, 16, 387-394.	0.2	4
67	Non-alcoholic Fatty Liver Disease Is Associated With Cardiovascular Outcomes in Subjects With Prediabetes and Diabetes: A Prospective Community-Based Cohort Study. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 889597.	1.1	4
68	Paroxysmal Hypertension Associated With Urination. <i>Hypertension</i> , 2019, 74, 1068-1074.	1.3	3
69	A Chinese pedigree with glucocorticoid remediable aldosteronism. <i>Hypertension Research</i> , 2021, 44, 1428-1433.	1.5	3
70	Mid-aortic syndrome is associated with increased left ventricular mass index in Takayasu arteritis. <i>Annals of Translational Medicine</i> , 2021, 9, 1124-1124.	0.7	2
71	Norswertianolin Promotes Cystathionine Î³-Lyase Activity and Attenuates Renal Ischemia/Reperfusion Injury and Hypertension. <i>Frontiers in Pharmacology</i> , 2021, 12, 677212.	1.6	2
72	Anemia in patients with Takayasu arteritis: prevalence, clinical features, and treatment. <i>Journal of Geriatric Cardiology</i> , 2019, 16, 689-694.	0.2	2

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73	Clinical characteristics of concurrent primary aldosteronism and renal artery stenosis: A retrospective case-control study. <i>Clinical and Experimental Hypertension</i> , 2021, 43, 7-12.	0.5	1
74	Profile of gut flora in hypertensive patients with insufficient sleep duration. <i>Journal of Human Hypertension</i> , 2022, 36, 390-404.	1.0	1
75	Changes in Cardiovascular Health Status and the Risk of New-Onset Hypertension in Kailuan Cohort Study. <i>PLoS ONE</i> , 2016, 11, e0158869.	1.1	1
76	Etiology spectrum and clinical characteristics of renal artery stenosis in a Chinese cohort. <i>Journal of Geriatric Cardiology</i> , 2021, 18, 104-113.	0.2	1
77	Coarctation of the aorta in twins with severe hypertension. <i>Journal of Geriatric Cardiology</i> , 2019, 16, 894-897.	0.2	0
78	Effectiveness of a clinical decision support system for hypertension management in primary care: study protocol for a pragmatic cluster-randomized controlled trial. <i>Trials</i> , 2022, 23, 412.	0.7	0