

# Jun Yu

## List of Publications by Year in descending order

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83  
papers

8,157  
citations

47006

47  
h-index

64796

79  
g-index

85  
all docs

85  
docs citations

85  
times ranked

11811  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genomes of <i>Oryza sativa</i> : A History of Duplications. <i>PLoS Biology</i> , 2005, 3, e38.	5.6	808
2	Dicer-dependent endothelial microRNAs are necessary for postnatal angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14082-14087.	7.1	453
3	Akt1/protein kinase B is critical for ischemic and VEGF-mediated angiogenesis. <i>Journal of Clinical Investigation</i> , 2005, 115, 2119-2127.	8.2	341
4	Direct evidence for the role of caveolin-1 and caveolae in mechanotransduction and remodeling of blood vessels. <i>Journal of Clinical Investigation</i> , 2006, 116, 1284-1291.	8.2	318
5	Endothelial nitric oxide synthase is critical for ischemic remodeling, mural cell recruitment, and blood flow reserve. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10999-11004.	7.1	286
6	FGF Regulates TGF- $\beta$ 2 Signaling and Endothelial-to-Mesenchymal Transition via Control of let-7 miRNA Expression. <i>Cell Reports</i> , 2012, 2, 1684-1696.	6.4	265
7	Loss of Akt1 Leads to Severe Atherosclerosis and Occlusive Coronary Artery Disease. <i>Cell Metabolism</i> , 2007, 6, 446-457.	16.2	253
8	Selective inhibition of tumor microvascular permeability by cavtratin blocks tumor progression in mice. <i>Cancer Cell</i> , 2003, 4, 31-39.	16.8	234
9	Ten-Eleven Translocation-2 (TET2) Is a Master Regulator of Smooth Muscle Cell Plasticity. <i>Circulation</i> , 2013, 128, 2047-2057.	1.6	231
10	Reexpression of caveolin-1 in endothelium rescues the vascular, cardiac, and pulmonary defects in global caveolin-1 knockout mice. <i>Journal of Experimental Medicine</i> , 2007, 204, 2373-2382.	8.5	224
11	A new role for Nogo as a regulator of vascular remodeling. <i>Nature Medicine</i> , 2004, 10, 382-388.	30.7	220
12	Caspase-1 Inflammasome Activation Mediates Homocysteine-Induced Pyroptosis in Endothelial Cells. <i>Circulation Research</i> , 2016, 118, 1525-1539.	4.5	198
13	Dissecting the molecular control of endothelial NO synthase by caveolin-1 using cell-permeable peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 761-766.	7.1	177
14	Prohibitin-1 maintains the angiogenic capacity of endothelial cells by regulating mitochondrial function and senescence. <i>Journal of Cell Biology</i> , 2008, 180, 101-112.	5.2	175
15	Cell-permeable peptides improve cellular uptake and therapeutic gene delivery of replication-deficient viruses in cells and in vivo. <i>Nature Medicine</i> , 2003, 9, 357-362.	30.7	163
16	Genetic Evidence Supporting a Critical Role of Endothelial Caveolin-1 during the Progression of Atherosclerosis. <i>Cell Metabolism</i> , 2009, 10, 48-54.	16.2	152
17	Endothelial-specific expression of caveolin-1 impairs microvascular permeability and angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 204-209.	7.1	150
18	VEGF-Induced Expression of miR-17-92 Cluster in Endothelial Cells Is Mediated by ERK/ELK1 Activation and Regulates Angiogenesis. <i>Circulation Research</i> , 2016, 118, 38-47.	4.5	141

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19	Endothelial nitric oxide synthase activation is critical for vascular leakage during acute inflammation <i>in vivo</i> . Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 904-908.	7.1	140
20	Inhibitor of apoptosis protein survivin regulates vascular injury. Nature Medicine, 2002, 8, 987-994.	30.7	134
21	Genetic Evidence Supporting Caveolae Microdomain Regulation of Calcium Entry in Endothelial Cells. Journal of Biological Chemistry, 2007, 282, 16631-16643.	3.4	132
22	Caveolin-1 Deficient Mice Have Increased Tumor Microvascular Permeability, Angiogenesis, and Growth. Cancer Research, 2007, 67, 2849-2856.	0.9	129
23	Identification of a receptor necessary for Nogo-B stimulated chemotaxis and morphogenesis of endothelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10997-11002.	7.1	128
24	Integrated analysis of phenome, genome, and transcriptome of hybrid rice uncovered multiple heterosis-related loci for yield increase. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6026-E6035.	7.1	126
25	Role of Endoplasmic Reticulum Stress, Autophagy, and Inflammation in Cardiovascular Disease. Frontiers in Cardiovascular Medicine, 2017, 4, 29.	2.4	125
26	Smooth Muscle miRNAs Are Critical for Post-Natal Regulation of Blood Pressure and Vascular Function. PLoS ONE, 2011, 6, e18869.	2.5	116
27	eNOS derived nitric oxide regulates endothelial barrier function via VE cadherin and Rho GTPases. Journal of Cell Science, 2013, 126, 5541-52.	2.0	112
28	Functional Reconstitution of Endothelial Nitric Oxide Synthase Reveals the Importance of Serine 1179 in Endothelium-Dependent Vasomotion. Circulation Research, 2002, 90, 904-910.	4.5	110
29	Thrombospondin-2 Modulates Extracellular Matrix Remodeling during Physiological Angiogenesis. American Journal of Pathology, 2008, 173, 879-891.	3.8	95
30	Novel extracellular and nuclear caspase-1 and inflammasomes propagate inflammation and regulate gene expression: a comprehensive database mining study. Journal of Hematology and Oncology, 2016, 9, 122.	17.0	92
31	Endothelial-Specific Overexpression of Caveolin-1 Accelerates Atherosclerosis in Apolipoprotein E-Deficient Mice. American Journal of Pathology, 2010, 177, 998-1003.	3.8	91
32	Trained Immunity: An Underlying Driver of Inflammatory Atherosclerosis. Frontiers in Immunology, 2020, 11, 284.	4.8	89
33	Chronic Kidney Disease Induces Inflammatory CD40 <sup>+</sup> Monocyte Differentiation via Homocysteine Elevation and DNA Hypomethylation. Circulation Research, 2016, 119, 1226-1241.	4.5	88
34	The Akt1-eNOS Axis Illustrates the Specificity of Kinase-Substrate Relationships in Vivo. Science Signaling, 2009, 2, ra41.	3.6	84
35	Reticulon 4B (Nogo-B) is necessary for macrophage infiltration and tissue repair. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17511-17516.	7.1	82
36	Critical function of Bmx/Etk in ischemia-mediated arteriogenesis and angiogenesis. Journal of Clinical Investigation, 2006, 116, 2344-55.	8.2	73

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37	Lysophospholipid Receptors, as Novel Conditional Danger Receptors and Homeostatic Receptors Modulate Inflammation—Novel Paradigm and Therapeutic Potential. <i>Journal of Cardiovascular Translational Research</i> , 2016, 9, 343-359.	2.4	71
38	<i>Enterobacter aerogenes</i> ZDY01 Attenuates Choline-Induced Trimethylamine N-Oxide Levels by Remodeling Gut Microbiota in Mice. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 1491-1499.	2.1	67
39	Analyses of caspase-1-regulated transcriptomes in various tissues lead to identification of novel IL-1 $\beta$ -, IL-18- and sirtuin-1-independent pathways. <i>Journal of Hematology and Oncology</i> , 2017, 10, 40.	17.0	64
40	Increased acetylation of H3K14 in the genomic regions that encode trained immunity enzymes in lysophosphatidylcholine-activated human aortic endothelial cells — Novel qualification markers for chronic disease risk factors and conditional DAMPs. <i>Redox Biology</i> , 2019, 24, 101221.	9.0	64
41	LMO7 Is a Negative Feedback Regulator of Transforming Growth Factor $\beta$ 2 Signaling and Fibrosis. <i>Circulation</i> , 2019, 139, 679-693.	1.6	63
42	Endothelial nitric oxide synthase controls the expression of the angiogenesis inhibitor thrombospondin 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1137-45.	7.1	62
43	Endothelial miR-17 $\sim$ 1492 cluster negatively regulates arteriogenesis via miRNA-19 repression of WNT signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12812-12817.	7.1	61
44	Tiliroside Ameliorates Ulcerative Colitis by Restoring the M1/M2 Macrophage Balance via the HIF-1 $\alpha$ /glycolysis Pathway. <i>Frontiers in Immunology</i> , 2021, 12, 649463.	4.8	58
45	Vascular smooth muscle cell-derived adiponectin: A paracrine regulator of contractile phenotype. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 474-484.	1.9	56
46	An engineered VEGF $\beta$ -activating zinc finger protein transcription factor improves blood flow and limb salvage in advanced $\beta$ mice. <i>FASEB Journal</i> , 2006, 20, 479-481.	0.5	53
47	Twenty Novel Disease Group-Specific and 12 New Shared Macrophage Pathways in Eight Groups of 34 Diseases Including 24 Inflammatory Organ Diseases and 10 Types of Tumors. <i>Frontiers in Immunology</i> , 2019, 10, 2612.	4.8	50
48	Heat shock protein 90 and tyrosine kinase regulate eNOS NO $\cdot$ generation but not NO $\cdot$ bioactivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H561-H569.	3.2	47
49	Macrophage $\beta$ 2 Integrin $\beta$ -Mediated, HuR-Dependent Stabilization of Angiogenic Factor $\beta$ -Encoding mRNAs in Inflammatory Angiogenesis. <i>American Journal of Pathology</i> , 2012, 180, 1751-1760.	3.8	47
50	Ceramide-Activated Phosphatase Mediates Fatty Acid $\beta$ -Induced Endothelial VEGF Resistance and Impaired Angiogenesis. <i>American Journal of Pathology</i> , 2014, 184, 1562-1576.	3.8	41
51	Epithelial reticulon 4B (Nogo-B) is an endogenous regulator of Th2-driven lung inflammation. <i>Journal of Experimental Medicine</i> , 2010, 207, 2595-2607.	8.5	39
52	Phosphorylation of GATA-6 is required for vascular smooth muscle cell differentiation after mTORC1 inhibition. <i>Science Signaling</i> , 2015, 8, ra44.	3.6	39
53	In Vivo Modulation of Nogo-B Attenuates Neointima Formation. <i>Molecular Therapy</i> , 2008, 16, 1798-1804.	8.2	37
54	Serial Noninvasive Targeted Imaging of Peripheral Angiogenesis: Validation and Application of a Semiautomated Quantitative Approach. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1356-1363.	5.0	36

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55	NMMHC IIA inhibition impedes tissue factor expression and venous thrombosis via Akt/GSK3 $\beta$ -NF- $\kappa$ B signalling pathways in the endothelium. <i>Thrombosis and Haemostasis</i> , 2015, 114, 173-185.	3.4	36
56	Atoh1 and other related key regulators in the development of auditory sensory epithelium in the mammalian inner ear: function and interplay. <i>Developmental Biology</i> , 2019, 446, 133-141.	2.0	35
57	Endothelium Derived Nitric Oxide Synthase Negatively Regulates the PDGF-Survivin Pathway during Flow-Dependent Vascular Remodeling. <i>PLoS ONE</i> , 2012, 7, e31495.	2.5	33
58	Notoginsenoside R1 inhibits vascular smooth muscle cell proliferation, migration and neointimal hyperplasia through PI3K/Akt signaling. <i>Scientific Reports</i> , 2018, 8, 7595.	3.3	32
59	Nitric Oxide Releasing Aspirin Decreases Vascular Injury by Reducing Inflammation and Promoting Apoptosis. <i>Laboratory Investigation</i> , 2002, 82, 825-832.	3.7	30
60	A Murine Model of Hind Limb Ischemia to Study Angiogenesis and Arteriogenesis. <i>Methods in Molecular Biology</i> , 2018, 1717, 135-143.	0.9	29
61	Endothelial Glucocorticoid Receptor Suppresses Atherogenesis Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 779-782.	2.4	28
62	Fabrication, self-assembly and biomedical applications of luminescent sodium hyaluronate with aggregation-induced emission feature. <i>Materials Science and Engineering C</i> , 2017, 81, 120-126.	7.3	26
63	HIF-1 $\alpha$ represses the expression of the angiogenesis inhibitor thrombospondin-2. <i>Matrix Biology</i> , 2018, 65, 45-58.	3.6	26
64	A comprehensive data mining study shows that most nuclear receptors act as newly proposed homeostasis-associated molecular pattern receptors. <i>Journal of Hematology and Oncology</i> , 2017, 10, 168.	17.0	23
65	Thrombus leukocytes exhibit more endothelial cell-specific angiogenic markers than peripheral blood leukocytes do in acute coronary syndrome patients, suggesting a possibility of trans-differentiation: a comprehensive database mining study. <i>Journal of Hematology and Oncology</i> , 2017, 10, 74.	17.0	22
66	Opposing Actions of AKT (Protein Kinase B) Isoforms in Vascular Smooth Muscle Injury and Therapeutic Response. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 2311-2321.	2.4	22
67	Identification and Regulation of Reticulon 4B (Nogo-B) in Renal Tubular Epithelial Cells. <i>American Journal of Pathology</i> , 2010, 177, 2765-2773.	3.8	17
68	Comprehensive off-target analysis of dCas9-SAM-mediated HIV reactivation via long noncoding RNA and mRNA profiling. <i>BMC Medical Genomics</i> , 2018, 11, 78.	1.5	15
69	Interleukin 35 Delays Hindlimb Ischemia-Induced Angiogenesis Through Regulating ROS-Extracellular Matrix but Spares Later Regenerative Angiogenesis. <i>Frontiers in Immunology</i> , 2020, 11, 595813.	4.8	13
70	Saponin monomer 13 of dwarf lilyturf tuber (DT-13) protects serum withdrawal-induced apoptosis through PI3K/Akt in HUVEC. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 74-79.	2.1	12
71	An allosteric site on MKP5 reveals a strategy for small-molecule inhibition. <i>Science Signaling</i> , 2020, 13, eaba3043.	3.6	12
72	Organelle Crosstalk Regulators Are Regulated in Diseases, Tumors, and Regulatory T Cells: Novel Classification of Organelle Crosstalk Regulators. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 713170.	2.4	11

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73	Aorta in Pathologies May Function as an Immune Organ by Upregulating Secretomes for Immune and Vascular Cell Activation, Differentiation and Trans-Differentiation” Early Secretomes may Serve as Drivers for Trained Immunity. <i>Frontiers in Immunology</i> , 2022, 13, 858256.	4.8	10
74	The Soluble (Pro)Renin Receptor in Health and Diseases: Foe or Friend?. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 378, 251-261.	2.5	8
75	<i>Enterobacter aerogenes</i> ZDY01 inhibits choline-induced atherosclerosis through CDCA-FXR-FGF15 axis. <i>Food and Function</i> , 2021, 12, 9932-9946.	4.6	7
76	MAP Kinase Phosphatase-5 Deficiency Protects Against Pressure Overload-Induced Cardiac Fibrosis. <i>Frontiers in Immunology</i> , 2021, 12, 790511.	4.8	6
77	Anemoside B4 Inhibits Vascular Smooth Muscle Cell Proliferation, Migration, and Neointimal Hyperplasia. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	2.4	6
78	Ziyuglycoside II alleviates cyclophosphamide-induced leukopenia in mice via regulation of HSPC proliferation and differentiation. <i>Biomedicine and Pharmacotherapy</i> , 2020, 132, 110862.	5.6	4
79	Deletion of LDLRAP1 Induces Atherosclerotic Plaque Formation, Insulin Resistance, and Dysregulated Insulin Response in Adipose Tissue. <i>American Journal of Pathology</i> , 2022, , .	3.8	3
80	Response to Letter Regarding Article, “Ten-Eleven Translocation-2 (TET2) Is a Master Regulator of Smooth Muscle Cell Plasticity” • <i>Circulation</i> , 2014, 130, e72.	1.6	1
81	PS224. Nogo-B Protein Modulates Intimal Thickening During Vein Graft Adaptation. <i>Journal of Vascular Surgery</i> , 2010, 51, 77S.	1.1	0
82	Nogo” limits intima”media thickening during mouse vein graft adaptation. <i>FASEB Journal</i> , 2008, 22, 174.4.	0.5	0
83	Abstract 434: Nogo-B Regulates Hyperglycemia Induced Endothelial Dysfunction by Modulating Mitochondria Function. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, .	2.4	0