Jason X-J Yuan

List of Publications by Year
in descending order

85 papers	6,700 citations	117625 34 h-index	69250 77 g-index
85 all docs	85 docs citations	85 times ranked	5782 citing authors

#	Article	IF	Citations
1	Cellular and Molecular Basis of Pulmonary Arterial Hypertension. Journal of the American College of Cardiology, 2009, 54, S20-S31.	2.8	714
2	Inflammation, Growth Factors, and Pulmonary Vascular Remodeling. Journal of the American College of Cardiology, 2009, 54, S10-S19.	2.8	605
3	Enhanced expression of transient receptor potential channels in idiopathic pulmonary arterial hypertension. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13861-13866.	7.1	395
4	Signaling Molecules in Nonfamilial Pulmonary Hypertension. New England Journal of Medicine, 2003, 348, 500-509.	27.0	362
5	Upregulated<i>TRP</i>and enhanced capacitative Ca²⁺entry in human pulmonary artery myocytes during proliferation. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H746-H755.	3.2	316
6	SARS-CoV-2 Spike Protein Impairs Endothelial Function via Downregulation of ACE 2. Circulation Research, 2021, 128, 1323-1326.	4.5	315
7	PDGF stimulates pulmonary vascular smooth muscle cell proliferation by upregulating TRPC6 expression. American Journal of Physiology - Cell Physiology, 2003, 284, C316-C330.	4.6	311
8	Notch3 signaling promotes the development of pulmonary arterial hypertension. Nature Medicine, 2009, 15, 1289-1297.	30.7	303
9	Cellular and molecular mechanisms of pulmonary vascular remodeling: role in the development of pulmonary hypertension. Microvascular Research, 2004, 68, 75-103.	2.5	263
10	Inhibition of endogenous TRP1 decreases capacitative Ca²⁺entry and attenuates pulmonary artery smooth muscle cell proliferation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 283, L144-L155.	2.9	233
11	A Functional Single-Nucleotide Polymorphism in the<i>TRPC6</i>Gene Promoter Associated With Idiopathic Pulmonary Arterial Hypertension. Circulation, 2009, 119, 2313-2322.	1.6	173
12	New mechanisms of pulmonary arterial hypertension: role of Ca²⁺signaling. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1546-H1562.	3.2	164
13	Capacitative Ca²⁺entry in agonist-induced pulmonary vasoconstriction. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 280, L870-L880.	2.9	134
14	Increased smooth muscle cell expression of caveolinâ€1 and caveolae contribute to the pathophysiology of idiopathic pulmonary arterial hypertension. FASEB Journal, 2007, 21, 2970-2979.	0.5	121
15	Endothelial HIF-2Î± Contributes to Severe Pulmonary Hypertension by Inducing Endothelial-to-Mesenchymal Transition. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 314, ajplung.00096.2.	2.9	121
16	Endothelial dysfunction in pulmonary arterial hypertension: an evolving landscape (2017 Grover) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	1.7	115
17	PVDOMICS. Circulation Research, 2017, 121, 1136-1139.	4.5	113
18	Hypoxic pulmonary vasoconstriction: role of voltage-gated potassium channels. Respiratory Research, 2000, 1, 40-48.	3.6	98

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19	Upregulated expression of STIM2, TRPC6, and Orai2 contributes to the transition of pulmonary arterial smooth muscle cells from a contractile to proliferative phenotype. American Journal of Physiology - Cell Physiology, 2015, 308, C581-C593.	4.6	91
20	PDGF enhances store-operated Ca²⁺entry by upregulating STIM1/Orai1 via activation of Akt/mTOR in human pulmonary arterial smooth muscle cells. American Journal of Physiology - Cell Physiology, 2012, 302, C405-C411.	4.6	90
21	Notch Activation of Ca²⁺ Signaling in the Development of Hypoxic Pulmonary Vasoconstriction and Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 355-367.	2.9	86
22	STIM2 Contributes to Enhanced Storeâ€Operated Ca²⁺ Entry in Pulmonary Artery Smooth Muscle Cells from Patients with Idiopathic Pulmonary Arterial Hypertension. Pulmonary Circulation, 2011, 1, 84-94.	1.7	78
23	Deficiency of Akt1, but not Akt2, attenuates the development of pulmonary hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L208-L220.	2.9	75
24	MDM2-Mediated Ubiquitination of Angiotensin-Converting Enzyme 2 Contributes to the Development of Pulmonary Arterial Hypertension. Circulation, 2020, 142, 1190-1204.	1.6	72
25	ATP promotes cell survival via regulation of cytosolic [Ca²⁺] and Bcl-2/Bax ratio in lung cancer cells. American Journal of Physiology - Cell Physiology, 2016, 310, C99-C114.	4.6	68
26	Hypoxic pulmonary vasoconstriction: role of ion channels. Journal of Applied Physiology, 2005, 98, 415-420.	2.5	67
27	Idiopathic pulmonary arterial hypertension. DMM Disease Models and Mechanisms, 2010, 3, 268-273.	2.4	57
28	Nicotinamide Phosphoribosyltransferase Promotes Pulmonary Vascular Remodeling and Is a Therapeutic Target in Pulmonary Arterial Hypertension. Circulation, 2017, 135, 1532-1546.	1.6	57
29	TRP Channels, CCE, and the Pulmonary Vascular Smooth Muscle. Microcirculation, 2006, 13, 671-692.	1.8	51
30	Pathogenic Role of mTORC1 and mTORC2 in Pulmonary Hypertension. JACC Basic To Translational Science, 2018, 3, 744-762.	4.1	47
31	STIM2 (Stromal Interaction Molecule 2)â€"Mediated Increase in Resting Cytosolic Free Ca ²⁺ Concentration Stimulates PASMC Proliferation in Pulmonary Arterial Hypertension. Hypertension, 2018, 71, 518-529.	2.7	45
32	c-Jun Decreases Voltage-Gated K + Channel Activity in Pulmonary Artery Smooth Muscle Cells. Circulation, 2001, 104, 1557-1563.	1.6	43
33	Upregulation of Piezo1 (Piezo Type Mechanosensitive Ion Channel Component 1) Enhances the Intracellular Free Calcium in Pulmonary Arterial Smooth Muscle Cells From Idiopathic Pulmonary Arterial Hypertension Patients. Hypertension, 2021, 77, 1974-1989.	2.7	42
34	Divergent changes of p53 in pulmonary arterial endothelial and smooth muscle cells involved in the development of pulmonary hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 316, L216-L228.	2.9	41
35	Direct Extracellular NAMPT Involvement in Pulmonary Hypertension and Vascular Remodeling. Transcriptional Regulation by SOX and HIF-2Î±. American Journal of Respiratory Cell and Molecular Biology, 2020, 63, 92-103.	2.9	39
36	Tetramethylpyrazine: A promising drug for the treatment of pulmonary hypertension. British Journal of Pharmacology, 2020, 177, 2743-2764.	5.4	36

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37	Activation of Notch signaling by short-term treatment with Jagged-1 enhances store-operated Ca²⁺entry in human pulmonary arterial smooth muscle cells. American Journal of Physiology - Cell Physiology, 2014, 306, C871-C878.	4.6	34
38	Identification of functional voltage-gated Na+ channels in cultured human pulmonary artery smooth muscle cells. Pflugers Archiv European Journal of Physiology, 2005, 451, 380-387.	2.8	32
39	Upregulation of Oct-4 isoforms in pulmonary artery smooth muscle cells from patients with pulmonary arterial hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 298, L548-L557.	2.9	31
40	Metformin Use in Diabetes Prior to Hospitalization: Effects on Mortality in Covid-19. Endocrine Practice, 2020, 26, 1166-1172.	2.1	31
41	Capsaicin-induced Ca²⁺signaling is enhanced via upregulated TRPV1 channels in pulmonary artery smooth muscle cells from patients with idiopathic PAH. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L309-L325.	2.9	30
42	mTOR Signaling in Pulmonary Vascular Disease: Pathogenic Role and Therapeutic Target. International Journal of Molecular Sciences, 2021, 22, 2144.	4.1	29
43	Endothelial upregulation of mechanosensitive channel Piezo1 in pulmonary hypertension. American Journal of Physiology - Cell Physiology, 2021, 321, C1010-C1027.	4.6	29
44	DIVERGENT EFFECTS OF BMP-2 ON GENE EXPRESSION IN PULMONARY ARTERY SMOOTH MUSCLE CELLS FROM NORMAL SUBJECTS AND PATIENTS WITH IDIOPATHIC PULMONARY ARTERIAL HYPERTENSION. Experimental Lung Research, 2005, 31, 783-806.	1.2	28
45	Prednisolone inhibits PDGF-induced nuclear translocation of NF-Î°B in human pulmonary artery smooth muscle cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L648-L657.	2.9	28
46	Overexpression of p53 due to excess protein O-GlcNAcylation is associated with coronary microvascular disease in type 2 diabetes. Cardiovascular Research, 2020, 116, 1186-1198.	3.8	28
47	Altered Airway Microbiota Composition in Patients With Pulmonary Hypertension. Hypertension, 2020, 76, 1589-1599.	2.7	27
48	MicroRNA-mediated downregulation of K⁺ channels in pulmonary arterial hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L10-L26.	2.9	25
49	Thrombin-mediated activation of Akt signaling contributes to pulmonary vascular remodeling in pulmonary hypertension. Physiological Reports, 2013, 1, e00190.	1.7	24
50	Activation of the mechanosensitive Ca2+ channel TRPV4 induces endothelial barrier permeability via the disruption of mitochondrial bioenergetics. Redox Biology, 2021, 38, 101785.	9.0	24
51	IL-18 mediates sickle cell cardiomyopathy and ventricular arrhythmias. Blood, 2021, 137, 1208-1218.	1.4	22
52	TRPC6, a therapeutic target for pulmonary hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L1161-L1182.	2.9	22
53	Pathogenic Role of Store-Operated and Receptor-Operated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Ca</mml:mtext></mml:mrow><mml:mrow><mml:mn mathvariant="bold">2</mml:mn><mml:mo mathvariant="bold">+</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:math> Channels in Pulmonary Arterial Hypertension. Journal of Signal Transduction, 2012, 2012, 1-16.	2.0	21
54	Biological heterogeneity in idiopathic pulmonary arterial hypertension identified through unsupervised transcriptomic profiling of whole blood. Nature Communications, 2021, 12, 7104.	12.8	21

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55	Optimization of Isolated Perfused/Ventilated Mouse Lung to Study Hypoxic Pulmonary Vasoconstriction. Pulmonary Circulation, 2013, 3, 396-405.	1.7	20
56	Hypoxiaâ€induced pulmonary hypertensionâ€"Utilizing experiments of nature. British Journal of Pharmacology, 2021, 178, 121-131.	5.4	20
57	JAGGED-NOTCH3 signaling in vascular remodeling in pulmonary arterial hypertension. Science Translational Medicine, 2022, 14, eabl5471.	12.4	19
58	Notch enhances Ca²⁺ entry by activating calcium-sensing receptors and inhibiting voltage-gated K⁺ channels. American Journal of Physiology - Cell Physiology, 2020, 318, C954-C968.	4.6	18
59	Genetic Admixture and Survival in Diverse Populations with Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 1407-1415.	5.6	18
60	Revisiting the mechanism of hypoxic pulmonary vasoconstriction using isolated perfused/ventilated mouse lung. Pulmonary Circulation, 2020, 10, 1-18.	1.7	15
61	Halofuginone, a promising drug for treatment of pulmonary hypertension. British Journal of Pharmacology, 2021, 178, 3373-3394.	5.4	15
62	Combined intermittent and sustained hypoxia is a novel and deleterious cardio-metabolic phenotype. Sleep, 2022, 45, .	1.1	14
63	Mechanosensitive channel Piezo1 is required for pulmonary artery smooth muscle cell proliferation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 322, L737-L760.	2.9	14
64	Excess neuropeptides in lung signal through endothelial cells to impair gas exchange. Developmental Cell, 2022, 57, 839-853.e6.	7.0	14
65	Endothelial plateletâ€derived growth factorâ€mediated activation of smooth muscle plateletâ€derived growth factor receptors in pulmonary arterial hypertension. Pulmonary Circulation, 2020, 10, 1-15.	1.7	13
66	Established pulmonary hypertension in rats was reversed by a combination of a HIFâ€2Î± antagonist and a p53 agonist. British Journal of Pharmacology, 2022, 179, 1065-1081.	5.4	13
67	Endothelial eNAMPT drives EndMT and preclinical PH: rescue by an eNAMPTâ€neutralizing mAb. Pulmonary Circulation, 2021, 11, 1-14.	1.7	13
68	mTORC1 in Pulmonary Arterial Hypertension. At the Crossroads between Vasoconstriction and Vascular Remodeling?. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 1177-1179.	5.6	12
69	HuR/Cx40 downregulation causes coronary microvascular dysfunction in type 2 diabetes. JCI Insight, 2021, 6, .	5.0	11
70	Flavored and Nicotine-Containing E-Cigarettes Induce Impaired Angiogenesis and Diabetic Wound Healing via Increased Endothelial Oxidative Stress and Reduced NO Bioavailability. Antioxidants, 2022, 11, 904.	5.1	10
71	Chloroquine differentially modulates coronary vasodilation in control and diabetic mice. British Journal of Pharmacology, 2020, 177, 314-327.	5.4	8
72	Mouse model of experimental pulmonary hypertension: Lung angiogram and right heart catheterization. Pulmonary Circulation, 2021, 11, 1-17.	1.7	8

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73	Cytokine profiling in pulmonary arterial hypertension: the role of redox homeostasis and sex. Translational Research, 2022, 247, 1-18.	5.0	6
74	Pathophysiology of stroke: the many and varied contributions of brain microvasculature. American Journal of Physiology - Cell Physiology, 2018, 315, C341-C342.	4.6	4
75	Pathophysiology of stroke: what do cells of the neurovascular unit have to do with it?. American Journal of Physiology - Cell Physiology, 2019, 316, C1-C1.	4.6	4
76	KCNK3 Channel: A New Player in the Field of Pulmonary Vascular Disease. Circulation Research, 2019, 125, 696-698.	4.5	3
77	Upregulation of Calcium Homeostasis Modulators in Contractile-To-Proliferative Phenotypical Transition of Pulmonary Arterial Smooth Muscle Cells. Frontiers in Physiology, 2021, 12, 714785.	2.8	1
78	Heterozygous <i>Tropomodulin 3</i> mice have improved lung vascularization after chronic hypoxia. Human Molecular Genetics, 2022, 31, 1130-1140.	2.9	0
79	Role of Connexin40 in Coronary Endothelial Cell Dysfunction in Type 1 Diabetic Mice. FASEB Journal, 2008, 22, 964.16.	0.5	0
80	Enhanced expression of pluripotency gene Octâ€4 in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. FASEB Journal, 2008, 22, 1209.15.	0.5	0
81	Electrophysiological characterization of cells isolated from endarterectomized tissue from patients with chronic thromboembolic pulmonary hypertension (CTEPH).. FASEB Journal, 2008, 22, 1209.14.	0.5	0
82	Functional Characterization of Ca 2+ and K + Channels in Human Embryonic Stem Cells. FASEB Journal, 2009, 23, 998.28.	0.5	0
83	MicroRNAâ€181b Regulates Ca 2+ Influx by Targeting TRPC6 in PASMC from Patients with Idiopathic Pulmonary Arterial Hypertension. FASEB Journal, 2019, 33, .	0.5	0
84	Calcium Homeostasis Modulator (CALHM1/2) and Pulmonary Arterial Hypertension. FASEB Journal, 2020, 34, 1-1.	0.5	0
85	NEDD9 provides mechanistic insight into the coagulopathy of COVIDâ€19. Pulmonary Circulation, 2022, 12, .	1.7	0