

# Stephen L Archer

## List of Publications by Citations

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159  
papers

18,648  
citations

66  
h-index

136  
g-index

169  
ext. papers

21,533  
ext. citations

9.6  
avg, IF

6.85  
L-index

#	Paper	IF	Citations
159	ACCF/AHA 2009 expert consensus document on pulmonary hypertension a report of the American College of Cardiology Foundation Task Force on Expert Consensus Documents and the American Heart Association developed in collaboration with the American College of Chest Physicians; American Thoracic Society, Inc.; and the Pulmonary Hypertension Association. <i>Journal of the American College of Cardiology</i> , <b>2009</b> , 54, S20-S31	15.1	1257
158	A mitochondria-K <sup>+</sup> channel axis is suppressed in cancer and its normalization promotes apoptosis and inhibits cancer growth. <i>Cancer Cell</i> , <b>2007</b> , 11, 37-51	24.3	1199
157	ACCF/AHA 2009 expert consensus document on pulmonary hypertension: a report of the American College of Cardiology Foundation Task Force on Expert Consensus Documents and the American Heart Association: developed in collaboration with the American College of Chest Physicians, American Thoracic Society, Inc., and the Pulmonary Hypertension Association. <i>Circulation</i> , <b>2009</b> , 120, 231-249	16.7	829
156	Mitochondrial dynamics--mitochondrial fission and fusion in human diseases. <i>New England Journal of Medicine</i> , <b>2013</b> , 369, 2236-51	59.2	629
155	Pediatric Pulmonary Hypertension: Guidelines From the American Heart Association and American Thoracic Society. <i>Circulation</i> , <b>2015</b> , 132, 2037-99	16.7	624
154	Cellular and molecular basis of pulmonary arterial hypertension. <i>Journal of the American College of Cardiology</i> , <b>2009</b> , 54, S20-S31	15.1	609
153	An abnormal mitochondrial-hypoxia inducible factor-1alpha-Kv channel pathway disrupts oxygen sensing and triggers pulmonary arterial hypertension in fawn hooded rats: similarities to human pulmonary arterial hypertension. <i>Circulation</i> , <b>2006</b> , 113, 2630-41	16.7	455
152	Phosphodiesterase type 5 is highly expressed in the hypertrophied human right ventricle, and acute inhibition of phosphodiesterase type 5 improves contractility. <i>Circulation</i> , <b>2007</b> , 116, 238-48	16.7	420
151	The mechanism of acute hypoxic pulmonary vasoconstriction: the tale of two channels. <i>FASEB Journal</i> , <b>1995</b> , 9, 183-9	0.9	407
150	Relevant issues in the pathology and pathobiology of pulmonary hypertension. <i>Journal of the American College of Cardiology</i> , <b>2013</b> , 62, D4-12	15.1	379
149	Acute oxygen-sensing mechanisms. <i>New England Journal of Medicine</i> , <b>2005</b> , 353, 2042-55	59.2	373
148	Basic science of pulmonary arterial hypertension for clinicians: new concepts and experimental therapies. <i>Circulation</i> , <b>2010</b> , 121, 2045-66	16.7	367
147	Inhibition of mitochondrial fission prevents cell cycle progression in lung cancer. <i>FASEB Journal</i> , <b>2012</b> , 26, 2175-86	0.9	359
146	Hypoxic pulmonary vasoconstriction. <i>Journal of Applied Physiology</i> , <b>2005</b> , 98, 390-403	3.7	356
145	Pulmonary arterial hypertension: pathogenesis and clinical management. <i>BMJ, The</i> , <b>2018</b> , 360, j5492	5.9	312
144	Epigenetic attenuation of mitochondrial superoxide dismutase 2 in pulmonary arterial hypertension: a basis for excessive cell proliferation and a new therapeutic target. <i>Circulation</i> , <b>2010</b> , 121, 2661-71	16.7	301
143	Long-term treatment with oral sildenafil is safe and improves functional capacity and hemodynamics in patients with pulmonary arterial hypertension. <i>Circulation</i> , <b>2003</b> , 108, 2066-9	16.7	294

142	The nuclear factor of activated T cells in pulmonary arterial hypertension can be therapeutically targeted. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 11418-23	11.5	291
141	Dichloroacetate, a metabolic modulator, prevents and reverses chronic hypoxic pulmonary hypertension in rats: role of increased expression and activity of voltage-gated potassium channels. <i>Circulation</i> , <b>2002</b> , 105, 244-50	16.7	291
140	Dynamin-related protein 1-mediated mitochondrial mitotic fission permits hyperproliferation of vascular smooth muscle cells and offers a novel therapeutic target in pulmonary hypertension. <i>Circulation Research</i> , <b>2012</b> , 110, 1484-97	15.7	280
139	Gene therapy targeting survivin selectively induces pulmonary vascular apoptosis and reverses pulmonary arterial hypertension. <i>Journal of Clinical Investigation</i> , <b>2005</b> , 115, 1479-91	15.9	277
138	Mitochondrial metabolism, redox signaling, and fusion: a mitochondria-ROS-HIF-1 $\alpha$ -Kv1.5 O <sub>2</sub> -sensing pathway at the intersection of pulmonary hypertension and cancer. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2008</b> , 294, H570-8	5.2	272
137	The right ventricle in pulmonary arterial hypertension: disorders of metabolism, angiogenesis and adrenergic signaling in right ventricular failure. <i>Circulation Research</i> , <b>2014</b> , 115, 176-88	15.7	264
136	Differential distribution of electrophysiologically distinct myocytes in conduit and resistance arteries determines their response to nitric oxide and hypoxia. <i>Circulation Research</i> , <b>1996</b> , 78, 431-42	15.7	259
135	SIRT3 deacetylates and activates OPA1 to regulate mitochondrial dynamics during stress. <i>Molecular and Cellular Biology</i> , <b>2014</b> , 34, 807-19	4.8	250
134	Diversity in mitochondrial function explains differences in vascular oxygen sensing. <i>Circulation Research</i> , <b>2002</b> , 90, 1307-15	15.7	246
133	The inhibition of pyruvate dehydrogenase kinase improves impaired cardiac function and electrical remodeling in two models of right ventricular hypertrophy: resuscitating the hibernating right ventricle. <i>Journal of Molecular Medicine</i> , <b>2010</b> , 88, 47-60	5.5	236
132	Dynamin-related protein 1 (Drp1)-mediated diastolic dysfunction in myocardial ischemia-reperfusion injury: therapeutic benefits of Drp1 inhibition to reduce mitochondrial fission. <i>FASEB Journal</i> , <b>2014</b> , 28, 316-26	0.9	234
131	Endothelium-derived hyperpolarizing factor in human internal mammary artery is 11,12-epoxyeicosatrienoic acid and causes relaxation by activating smooth muscle BK(Ca) channels. <i>Circulation</i> , <b>2003</b> , 107, 769-76	16.7	227
130	In vivo gene transfer of the O <sub>2</sub> -sensitive potassium channel Kv1.5 reduces pulmonary hypertension and restores hypoxic pulmonary vasoconstriction in chronically hypoxic rats. <i>Circulation</i> , <b>2003</b> , 107, 2037-44	16.7	226
129	Hypoxic Pulmonary Vasoconstriction: From Molecular Mechanisms to Medicine. <i>Chest</i> , <b>2017</b> , 151, 181-193	3.3	177
128	Phosphodiesterase type 5 inhibitors for pulmonary arterial hypertension. <i>New England Journal of Medicine</i> , <b>2009</b> , 361, 1864-71	59.2	167
127	Preferential expression and function of voltage-gated, O <sub>2</sub> -sensitive K <sup>+</sup> channels in resistance pulmonary arteries explains regional heterogeneity in hypoxic pulmonary vasoconstriction: ionic diversity in smooth muscle cells. <i>Circulation Research</i> , <b>2004</b> , 95, 308-18	15.7	156
126	Late gadolinium enhancement cardiovascular magnetic resonance predicts clinical worsening in patients with pulmonary hypertension. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2012</b> , 14, 11	6.9	152
125	Therapeutic inhibition of fatty acid oxidation in right ventricular hypertrophy: exploiting Randle's cycle. <i>Journal of Molecular Medicine</i> , <b>2012</b> , 90, 31-43	5.5	139

124	O <sub>2</sub> sensing in the human ductus arteriosus: regulation of voltage-gated K <sup>+</sup> channels in smooth muscle cells by a mitochondrial redox sensor. <i>Circulation Research</i> , <b>2002</b> , 91, 478-86	15.7	138
123	A central role for CD68(+) macrophages in hepatopulmonary syndrome. Reversal by macrophage depletion. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2011</b> , 183, 1080-91	10.2	133
122	Lung <sup>18</sup> F-fluorodeoxyglucose positron emission tomography for diagnosis and monitoring of pulmonary arterial hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2012</b> , 185, 670-9	10.2	133
121	The role of k <sup>+</sup> channels in determining pulmonary vascular tone, oxygen sensing, cell proliferation, and apoptosis: implications in hypoxic pulmonary vasoconstriction and pulmonary arterial hypertension. <i>Microcirculation</i> , <b>2006</b> , 13, 615-32	2.9	132
120	PGC1 $\beta$ -mediated mitofusin-2 deficiency in female rats and humans with pulmonary arterial hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2013</b> , 187, 865-78	10.2	130
119	Impairment of hypoxic pulmonary vasoconstriction in mice lacking the voltage-gated potassium channel Kv1.5. <i>FASEB Journal</i> , <b>2001</b> , 15, 1801-3	0.9	126
118	Oxygen activates the Rho/Rho-kinase pathway and induces RhoB and ROCK-1 expression in human and rabbit ductus arteriosus by increasing mitochondria-derived reactive oxygen species: a newly recognized mechanism for sustaining ductal constriction. <i>Circulation</i> , <b>2007</b> , 115, 1777-88	16.7	121
117	Emerging concepts in the molecular basis of pulmonary arterial hypertension: part I: metabolic plasticity and mitochondrial dynamics in the pulmonary circulation and right ventricle in pulmonary arterial hypertension. <i>Circulation</i> , <b>2015</b> , 131, 1691-702	16.7	120
116	Metabolism and bioenergetics in the right ventricle and pulmonary vasculature in pulmonary hypertension. <i>Pulmonary Circulation</i> , <b>2013</b> , 3, 144-52	2.7	118
115	Validation of high-resolution echocardiography and magnetic resonance imaging vs. high-fidelity catheterization in experimental pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2010</b> , 299, L401-12	5.8	115
114	Mitochondrial metabolic adaptation in right ventricular hypertrophy and failure. <i>Journal of Molecular Medicine</i> , <b>2010</b> , 88, 1011-20	5.5	112
113	Cardiac glutaminolysis: a maladaptive cancer metabolism pathway in the right ventricle in pulmonary hypertension. <i>Journal of Molecular Medicine</i> , <b>2013</b> , 91, 1185-97	5.5	110
112	Assessment of Right Ventricular Function in the Research Setting: Knowledge Gaps and Pathways Forward. An Official American Thoracic Society Research Statement. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2018</b> , 198, e15-e43	10.2	105
111	Hypoxic pulmonary vasoconstriction: redox regulation of O <sub>2</sub> -sensitive K <sup>+</sup> channels by a mitochondrial O <sub>2</sub> -sensor in resistance artery smooth muscle cells. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2004</b> , 37, 1119-36	5.8	103
110	FOXO1-mediated upregulation of pyruvate dehydrogenase kinase-4 (PDK4) decreases glucose oxidation and impairs right ventricular function in pulmonary hypertension: therapeutic benefits of dichloroacetate. <i>Journal of Molecular Medicine</i> , <b>2013</b> , 91, 333-46	5.5	100
109	Right ventricular adaptation and failure in pulmonary arterial hypertension. <i>Canadian Journal of Cardiology</i> , <b>2015</b> , 31, 391-406	3.8	98
108	MicroRNA-138 and MicroRNA-25 Down-regulate Mitochondrial Calcium Uniporter, Causing the Pulmonary Arterial Hypertension Cancer Phenotype. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2017</b> , 195, 515-529	10.2	98
107	Increasing Incidence and Prevalence of World Health Organization Groups 1 to 4 Pulmonary Hypertension: A Population-Based Cohort Study in Ontario, Canada. <i>Circulation: Cardiovascular Quality and Outcomes</i> , <b>2018</b> , 11, e003973	5.8	95

106	Differentiating COVID-19 Pneumonia From Acute Respiratory Distress Syndrome and High Altitude Pulmonary Edema: Therapeutic Implications. <i>Circulation</i> , <b>2020</b> , 142, 101-104	16.7	92
105	Standards and Methodological Rigor in Pulmonary Arterial Hypertension Preclinical and Translational Research. <i>Circulation Research</i> , <b>2018</b> , 122, 1021-1032	15.7	89
104	Oxygen-sensitive Kv channel gene transfer confers oxygen responsiveness to preterm rabbit and remodeled human ductus arteriosus: implications for infants with patent ductus arteriosus. <i>Circulation</i> , <b>2004</b> , 110, 1372-9	16.7	89
103	Long-term effects of epoprostenol on the pulmonary vasculature in idiopathic pulmonary arterial hypertension. <i>Chest</i> , <b>2010</b> , 138, 1234-9	5.3	88
102	Mitochondrial dynamics in pulmonary arterial hypertension. <i>Journal of Molecular Medicine</i> , <b>2015</b> , 93, 229-42	5.5	86
101	GRK2-mediated inhibition of adrenergic and dopaminergic signaling in right ventricular hypertrophy: therapeutic implications in pulmonary hypertension. <i>Circulation</i> , <b>2012</b> , 126, 2859-69	16.7	86
100	Voltage-gated potassium channels in human ductus arteriosus. <i>Lancet, The</i> , <b>2000</b> , 356, 134-7	4.0	85
99	Metabolic heterogeneity of idiopathic pulmonary fibrosis: a metabolomic study. <i>BMJ Open Respiratory Research</i> , <b>2017</b> , 4, e000183	5.6	84
98	Role of dynamin-related protein 1 (Drp1)-mediated mitochondrial fission in oxygen sensing and constriction of the ductus arteriosus. <i>Circulation Research</i> , <b>2013</b> , 112, 802-15	15.7	73
97	Hypoxic fetoplacental vasoconstriction in humans is mediated by potassium channel inhibition. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2002</b> , 283, H2440-9	5.2	73
96	A placebo-controlled trial of prostacyclin in acute respiratory failure in COPD. <i>Chest</i> , <b>1996</b> , 109, 750-5	5.3	70
95	A proposed mitochondrial-metabolic mechanism for initiation and maintenance of pulmonary arterial hypertension in fawn-hooded rats: the Warburg model of pulmonary arterial hypertension. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 661, 171-85	3.6	70
94	Epigenetic mechanisms of pulmonary hypertension. <i>Pulmonary Circulation</i> , <b>2011</b> , 1, 347-56	2.7	69
93	Statin therapy, alone or with rapamycin, does not reverse monocrotaline pulmonary arterial hypertension: the rapamycin-atorvastatin-simvastatin study. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2007</b> , 293, L933-40	5.8	64
92	Epigenetic Dysregulation of the Dynamin-Related Protein 1 Binding Partners MiD49 and MiD51 Increases Mitotic Mitochondrial Fission and Promotes Pulmonary Arterial Hypertension: Mechanistic and Therapeutic Implications. <i>Circulation</i> , <b>2018</b> , 138, 287-304	16.7	62
91	QTc prolongation is associated with impaired right ventricular function and predicts mortality in pulmonary hypertension. <i>International Journal of Cardiology</i> , <b>2013</b> , 167, 669-76	3.2	61
90	Overexpression of human bone morphogenetic protein receptor 2 does not ameliorate monocrotaline pulmonary arterial hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2007</b> , 292, L872-8	5.8	61
89	Peripheral blood signature of vasodilator-responsive pulmonary arterial hypertension. <i>Circulation</i> , <b>2015</b> , 131, 401-9; discussion 409	16.7	60

88	Potassium channels and erectile dysfunction. <i>Vascular Pharmacology</i> , <b>2002</b> , 38, 61-71	5.9	60
87	Inhibition of the mitochondrial fission protein dynamin-related protein 1 improves survival in a murine cardiac arrest model. <i>Critical Care Medicine</i> , <b>2015</b> , 43, e38-47	1.4	58
86	Ischemia-induced Drp1 and Fis1-mediated mitochondrial fission and right ventricular dysfunction in pulmonary hypertension. <i>Journal of Molecular Medicine</i> , <b>2017</b> , 95, 381-393	5.5	55
85	Redox control of oxygen sensing in the rabbit ductus arteriosus. <i>Journal of Physiology</i> , <b>2001</b> , 533, 253-613.9	3.9	55
84	The role of Drp1 adaptor proteins MiD49 and MiD51 in mitochondrial fission: implications for human disease. <i>Clinical Science</i> , <b>2016</b> , 130, 1861-74	6.5	55
83	Genetic determinants of risk in pulmonary arterial hypertension: international genome-wide association studies and meta-analysis. <i>Lancet Respiratory Medicine</i> , <b>2019</b> , 7, 227-238	35.1	55
82	Critical Genomic Networks and Vasoreactive Variants in Idiopathic Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2016</b> , 194, 464-75	10.2	52
81	Trends and Outcomes of Pulmonary Arterial Hypertension-Related Hospitalizations in the United States: Analysis of the Nationwide Inpatient Sample Database From 2001 Through 2012. <i>JAMA Cardiology</i> , <b>2016</b> , 1, 1021-1029	16.2	51
80	An anesthesiologist's guide to hypoxic pulmonary vasoconstriction: implications for managing single-lung anesthesia and atelectasis. <i>Current Opinion in Anaesthesiology</i> , <b>2006</b> , 19, 34-43	2.9	50
79	Interleukin-6 is independently associated with right ventricular function in pulmonary arterial hypertension. <i>Journal of Heart and Lung Transplantation</i> , <b>2018</b> , 37, 376-384	5.8	46
78	Identification of Long Noncoding RNA H19 as a New Biomarker and Therapeutic Target in Right Ventricular Failure in Pulmonary Arterial Hypertension. <i>Circulation</i> , <b>2020</b> , 142, 1464-1484	16.7	46
77	Metabolic Syndrome Exacerbates Pulmonary Hypertension due to Left Heart Disease. <i>Circulation Research</i> , <b>2019</b> , 125, 449-466	15.7	45
76	O <sub>2</sub> sensing in the human ductus arteriosus: redox-sensitive K <sup>+</sup> channels are regulated by mitochondria-derived hydrogen peroxide. <i>Biological Chemistry</i> , <b>2004</b> , 385, 205-16	4.5	44
75	The role of redox changes in oxygen sensing. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 174, 182-912.8	2.8	43
74	Developmental absence of the O <sub>2</sub> sensitivity of L-type calcium channels in preterm ductus arteriosus smooth muscle cells impairs O <sub>2</sub> constriction contributing to patent ductus arteriosus. <i>Pediatric Research</i> , <b>2008</b> , 63, 176-81	3.2	42
73	Mitochondrial fission and fusion in human diseases. <i>New England Journal of Medicine</i> , <b>2014</b> , 370, 1074	59.2	40
72	Counterpoint: Hypoxic pulmonary vasoconstriction is not mediated by increased production of reactive oxygen species. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 995-8; discussion 998	3.7	40
71	The mechanism(s) of hypoxic pulmonary vasoconstriction: potassium channels, redox O <sub>2</sub> sensors, and controversies. <i>Physiology</i> , <b>2002</b> , 17, 131-7	9.8	39

70	Ndufs2, a Core Subunit of Mitochondrial Complex I, Is Essential for Acute Oxygen-Sensing and Hypoxic Pulmonary Vasoconstriction. <i>Circulation Research</i> , <b>2019</b> , 124, 1727-1746	15.7	38
69	A maturational shift in pulmonary K <sup>+</sup> channels, from Ca <sup>2+</sup> sensitive to voltage dependent. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>1998</b> , 275, L1019-25	5.8	37
68	Rodent Models of Group 1 Pulmonary Hypertension. <i>Handbook of Experimental Pharmacology</i> , <b>2013</b> , 105-149	3.2	37
67	Identification of novel dynamin-related protein 1 (Drp1) GTPase inhibitors: Therapeutic potential of Drpitor1 and Drpitor1a in cancer and cardiac ischemia-reperfusion injury. <i>FASEB Journal</i> , <b>2020</b> , 34, 1447-1464	9.0	34
66	Colchicine Depolymerizes Microtubules, Increases Junctophilin-2, and Improves Right Ventricular Function in Experimental Pulmonary Arterial Hypertension. <i>Journal of the American Heart Association</i> , <b>2017</b> , 6,	6	32
65	Repurposing Medications for Treatment of Pulmonary Arterial Hypertension: What's Old Is New Again. <i>Journal of the American Heart Association</i> , <b>2019</b> , 8, e011343	6	31
64	Novel Mutations and Decreased Expression of the Epigenetic Regulator in Pulmonary Arterial Hypertension. <i>Circulation</i> , <b>2020</b> , 141, 1986-2000	16.7	28
63	Epigenetic Metabolic Reprogramming of Right Ventricular Fibroblasts in Pulmonary Arterial Hypertension: A Pyruvate Dehydrogenase Kinase-Dependent Shift in Mitochondrial Metabolism Promotes Right Ventricular Fibrosis. <i>Circulation Research</i> , <b>2020</b> , 126, 1723-1745	15.7	28
62	Increased Drp1-Mediated Mitochondrial Fission Promotes Proliferation and Collagen Production by Right Ventricular Fibroblasts in Experimental Pulmonary Arterial Hypertension. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 828	4.6	27
61	Home Virtual Visits for Outpatient Follow-Up Stroke Care: Cross-Sectional Study. <i>Journal of Medical Internet Research</i> , <b>2019</b> , 21, e13734	7.6	26
60	Rodent models of group 1 pulmonary hypertension. <i>Handbook of Experimental Pharmacology</i> , <b>2013</b> , 218, 105-49	3.2	26
59	Survival in pulmonary hypertension due to chronic lung disease: Influence of low diffusion capacity of the lungs for carbon monoxide. <i>Journal of Heart and Lung Transplantation</i> , <b>2019</b> , 38, 145-155	5.8	26
58	Transcriptomic Signature of Right Ventricular Failure in Experimental Pulmonary Arterial Hypertension: Deep Sequencing Demonstrates Mitochondrial, Fibrotic, Inflammatory and Angiogenic Abnormalities. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	26
57	Persistence of complex vascular lesions despite prolonged prostacyclin therapy of pulmonary arterial hypertension. <i>Histopathology</i> , <b>2012</b> , 61, 597-609	7.3	25
56	A mitochondrial redox oxygen sensor in the pulmonary vasculature and ductus arteriosus. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2016</b> , 468, 43-58	4.6	23
55	Pulmonary vasoconstriction, oxygen sensing, and the role of ion channels: Thomas A. Neff lecture. <i>Chest</i> , <b>1998</b> , 114, 17S-22S	5.3	23
54	Acquired Mitochondrial Abnormalities, Including Epigenetic Inhibition of Superoxide Dismutase 2, in Pulmonary Hypertension and Cancer: Therapeutic Implications. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 903, 29-53	3.6	22
53	Activation of the EGFR/p38/JNK pathway by mitochondrial-derived hydrogen peroxide contributes to oxygen-induced contraction of ductus arteriosus. <i>Journal of Molecular Medicine</i> , <b>2014</b> , 92, 995-1007	5.5	22

52	Clinical Determinants and Prognostic Implications of Right Ventricular Dysfunction in Pulmonary Hypertension Caused by Chronic Lung Disease. <i>Journal of the American Heart Association</i> , <b>2019</b> , 8, e011464	6	21
51	Mitochondria in the Pulmonary Vasculature in Health and Disease: Oxygen-Sensing, Metabolism, and Dynamics. <i>Comprehensive Physiology</i> , <b>2020</b> , 10, 713-765	7.7	21
50	The making of a physician-scientist--the process has a pattern: lessons from the lives of Nobel laureates in medicine and physiology. <i>European Heart Journal</i> , <b>2007</b> , 28, 510-4	9.5	20
49	Executive Summary of the American Heart Association and American Thoracic Society Joint Guidelines for Pediatric Pulmonary Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2016</b> , 194, 898-906	10.2	20
48	Pulmonary pulse wave transit time is associated with right ventricular-pulmonary artery coupling in pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , <b>2016</b> , 6, 576-585	2.7	18
47	A Central Role for Oxygen-Sensitive K <sup>+</sup> Channels and Mitochondria in the Specialized Oxygen-Sensing System. <i>Novartis Foundation Symposium</i> , <b>2008</b> , 157-175		17
46	Aetiology and management of male erectile dysfunction and female sexual dysfunction in patients with cardiovascular disease. <i>Drugs and Aging</i> , <b>2005</b> , 22, 823-44	4.7	17
45	Dexfenfluramine increases pulmonary artery smooth muscle intracellular Ca <sup>2+</sup> , independent of membrane potential. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>1999</b> , 277, L662-6	5.8	16
44	Clinical value of non-coding RNAs in cardiovascular, pulmonary, and muscle diseases. <i>American Journal of Physiology - Cell Physiology</i> , <b>2020</b> , 318, C1-C28	5.4	16
43	Pathophysiology, incidence, management, and consequences of cardiac arrhythmia in pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension. <i>Pulmonary Circulation</i> , <b>2019</b> , 9, 2045894019834890	2.7	14
42	Blunted hypoxic pulmonary vasoconstriction in experimental neonatal chronic lung disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2008</b> , 178, 399-406	10.2	13
41	Suppression of Superoxide-Hydrogen Peroxide Production at Site IQ of Mitochondrial Complex I Attenuates Myocardial Stunning and Improves Postcardiac Arrest Outcomes. <i>Critical Care Medicine</i> , <b>2020</b> , 48, e133-e140	1.4	12
40	Biventricular Increases in Mitochondrial Fission Mediator (MiD51) and Proglycolytic Pyruvate Kinase (PKM2) Isoform in Experimental Group 2 Pulmonary Hypertension--Novel Mitochondrial Abnormalities. <i>Frontiers in Cardiovascular Medicine</i> , <b>2018</b> , 5, 195	5.4	11
39	Aerosol delivery of diethylenetriamine/nitric oxide, a nitric oxide adduct, causes selective pulmonary vasodilation in perinatal lambs. <i>Translational Research</i> , <b>1999</b> , 134, 419-25		11
38	Mitochondrial iron-sulfur clusters: Structure, function, and an emerging role in vascular biology. <i>Redox Biology</i> , <b>2021</b> , 47, 102164	11.3	11
37	Endothelial Loss Drives a Proliferative Response to BMP (Bone Morphogenetic Protein) 9 via Prolonged Canonical Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2020</b> , 40, 2605-2618	9.4	11
36	Rare variant analysis of 4241 pulmonary arterial hypertension cases from an international consortium implicates FBLN2, PDGFD, and rare de novo variants in PAH. <i>Genome Medicine</i> , <b>2021</b> , 13, 80	14.4	11
35	Models and Molecular Mechanisms of World Health Organization Group 2 to 4 Pulmonary Hypertension. <i>Hypertension</i> , <b>2018</b> , 71, 34-55	8.5	11



34	Oxygen sensing, mitochondrial biology and experimental therapeutics for pulmonary hypertension and cancer. <i>Free Radical Biology and Medicine</i> , <b>2021</b> , 170, 150-178	7.8	10
33	A pro-con debate: current controversies in PAH pathogenesis at the American Thoracic Society International Conference in 2017. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2018</b> , 315, L502-L516	5.8	9
32	A central role for oxygen-sensitive K <sup>+</sup> channels and mitochondria in the specialized oxygen-sensing system. <i>Novartis Foundation Symposium</i> , <b>2006</b> , 272, 157-71; discussion 171-5, 214-7		9
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