

Andrea Olschewski

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers

4,578
citations

41
h-index

62
g-index

131
ext. papers

5,560
ext. citations

8.1
avg, IF

5.14
L-index

#	Paper	IF	Citations
121	Classical transient receptor potential channel 6 (TRPC6) is essential for hypoxic pulmonary vasoconstriction and alveolar gas exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19093-8	11.5	247
120	Alterations in the ankyrin domain of TRPV4 cause congenital distal SMA, scapuloperoneal SMA and HMSN2C. <i>Nature Genetics</i> , 2010 , 42, 160-4	36.3	191
119	Identification of rare sequence variation underlying heritable pulmonary arterial hypertension. <i>Nature Communications</i> , 2018 , 9, 1416	17.4	182
118	Impact of TASK-1 in human pulmonary artery smooth muscle cells. <i>Circulation Research</i> , 2006 , 98, 1072-80	5.7	174
117	Pulmonary vascular resistances during exercise in normal subjects: a systematic review. <i>European Respiratory Journal</i> , 2012 , 39, 319-28	13.6	125
116	The role of inflammation in hypoxic pulmonary hypertension: from cellular mechanisms to clinical phenotypes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 308, L229-52	5.8	119
115	PCK2 activation mediates an adaptive response to glucose depletion in lung cancer. <i>Oncogene</i> , 2015 , 34, 1044-50	9.2	119
114	Effect of drugs used for neuropathic pain management on tetrodotoxin-resistant Na(+) currents in rat sensory neurons. <i>Anesthesiology</i> , 2001 , 94, 137-44	4.3	119
113	Prostacyclin and its analogues in the treatment of pulmonary hypertension 2004 , 102, 139-53		102
112	TGF- β directs trafficking of the epithelial sodium channel ENaC which has implications for ion and fluid transport in acute lung injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E374-83	11.5	87
111	Mild Elevation of Pulmonary Arterial Pressure as a Predictor of Mortality. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 509-516	10.2	84
110	Zero reference level for right heart catheterisation. <i>European Respiratory Journal</i> , 2013 , 42, 1586-94	13.6	83
109	Src tyrosine kinase is crucial for potassium channel function in human pulmonary arteries. <i>European Respiratory Journal</i> , 2013 , 41, 85-95	13.6	82
108	Blockade of Na ⁺ and K ⁺ currents by local anesthetics in the dorsal horn neurons of the spinal cord. <i>Anesthesiology</i> , 1998 , 88, 172-9	4.3	79
107	Comprehensive analysis of inflammatory markers in chronic thromboembolic pulmonary hypertension patients. <i>European Respiratory Journal</i> , 2014 , 44, 951-62	13.6	71
106	Distinct differences in gene expression patterns in pulmonary arteries of patients with chronic obstructive pulmonary disease and idiopathic pulmonary fibrosis with pulmonary hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 190, 98-111	10.2	69
105	Oleic acid inhibits alveolar fluid reabsorption: a role in acute respiratory distress syndrome?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 171, 469-79	10.2	68

104	Biomarkers in pulmonary hypertension: what do we know?. <i>Chest</i> , 2013 , 144, 274-283	5.3	66
103	Role of ion channels in acute and chronic responses of the pulmonary vasculature to hypoxia. <i>Cardiovascular Research</i> , 2006 , 71, 630-41	9.9	62
102	Physiologic basis for the treatment of pulmonary hypertension. <i>Translational Research</i> , 2001 , 138, 287-97		62
101	Ketamine impairs excitability in superficial dorsal horn neurones by blocking sodium and voltage-gated potassium currents. <i>British Journal of Pharmacology</i> , 2005 , 146, 826-33	8.6	59
100	Quantification of tortuosity and fractal dimension of the lung vessels in pulmonary hypertension patients. <i>PLoS ONE</i> , 2014 , 9, e87515	3.7	59
99	The inflammatory cell landscape in the lungs of patients with idiopathic pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2018 , 51,	13.6	57
98	Subacute hypoxia decreases voltage-activated potassium channel expression and function in pulmonary artery myocytes. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2004 , 31, 337-43	5.7	56
97	Thrombin impairs alveolar fluid clearance by promoting endocytosis of Na ⁺ ,K ⁺ -ATPase. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2005 , 33, 343-54	5.7	56
96	Genetic determinants of risk in pulmonary arterial hypertension: international genome-wide association studies and meta-analysis. <i>Lancet Respiratory Medicine</i> , 2019 , 7, 227-238	35.1	55
95	PAR-2 inhibition reverses experimental pulmonary hypertension. <i>Circulation Research</i> , 2012 , 110, 1179-91	5.7	52
94	Characterization of patients with borderline pulmonary arterial pressure. <i>Chest</i> , 2014 , 146, 1486-1493	5.3	51
93	Endothelin-1 inhibits background two-pore domain channel TASK-1 in primary human pulmonary artery smooth muscle cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009 , 41, 476-83	5.7	51
92	Panobinostat reduces hypoxia-induced cisplatin resistance of non-small cell lung carcinoma cells via HIF-1 α destabilization. <i>Molecular Cancer</i> , 2015 , 14, 4	42.1	47
91	Role of store-operated calcium channels and calcium sensitization in normoxic contraction of the ductus arteriosus. <i>Circulation</i> , 2006 , 114, 1372-9	16.7	47
90	Characterization of Mutations and Levels of BMP9 and BMP10 in Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 201, 575-585	10.2	46
89	Hypoxia-induced cisplatin resistance is reversible and growth rate independent in lung cancer cells. <i>Cancer Letters</i> , 2011 , 308, 134-43	9.9	45
88	Ion Channels in Pulmonary Hypertension: A Therapeutic Interest?. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	45
87	Compartment-specific expression of collagens and their processing enzymes in intrapulmonary arteries of IPAH patients. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 308, L1002-13	5.8	44

86	High-mobility group box-1 induces vascular remodelling processes via c-Jun activation. <i>Journal of Cellular and Molecular Medicine</i> , 2015 , 19, 1151-61	5.6	44
85	Activated prostaglandin D2 receptors on macrophages enhance neutrophil recruitment into the lung. <i>Journal of Allergy and Clinical Immunology</i> , 2016 , 137, 833-43	11.5	42
84	Meprin α a novel mediator of vascular remodelling underlying pulmonary hypertension. <i>Journal of Pathology</i> , 2014 , 233, 7-17	9.4	42
83	Hypoxia increases membrane metallo-endopeptidase expression in a novel lung cancer ex vivo model - role of tumor stroma cells. <i>BMC Cancer</i> , 2014 , 14, 40	4.8	41
82	Opposite effects of redox status on membrane potential, cytosolic calcium, and tone in pulmonary arteries and ductus arteriosus. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004 , 286, L15-22	5.8	41
81	Angiostatic factors in the pulmonary endarterectomy material from chronic thromboembolic pulmonary hypertension patients cause endothelial dysfunction. <i>PLoS ONE</i> , 2012 , 7, e43793	3.7	41
80	Graded response of K ⁺ current, membrane potential, and [Ca ²⁺] _i to hypoxia in pulmonary arterial smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2002 , 283, L1143-50	5.8	40
79	TASK-1 (KCNK3) channels in the lung: from cell biology to clinical implications. <i>European Respiratory Journal</i> , 2017 , 50,	13.6	37
78	Microarray analysis in pulmonary hypertension. <i>European Respiratory Journal</i> , 2016 , 48, 229-41	13.6	37
77	Loss of SMAD3 Promotes Vascular Remodeling in Pulmonary Arterial Hypertension via MRTF Disinhibition. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 244-260	10.2	36
76	ATP-dependent potassium channel in rat cardiomyocytes is blocked by lidocaine. Possible impact on the antiarrhythmic action of lidocaine. <i>Circulation</i> , 1996 , 93, 656-9	16.7	36
75	BDNF/TrkB signaling augments smooth muscle cell proliferation in pulmonary hypertension. <i>American Journal of Pathology</i> , 2012 , 181, 2018-29	5.8	35
74	Endothelin-1 driven proliferation of pulmonary arterial smooth muscle cells is c-fos dependent. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 54, 137-48	5.6	34
73	Peroxisome proliferator-activated receptor- γ is the acute signaling factor in prostacyclin-induced pulmonary vasodilation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012 , 46, 372-9	5.7	34
72	Targeting TMEM16A to reverse vasoconstriction and remodelling in idiopathic pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2019 , 53,	13.6	33
71	Docosahexaenoic acid-induced unfolded protein response, cell cycle arrest, and apoptosis in vascular smooth muscle cells are triggered by Ca ²⁺ -dependent induction of oxidative stress. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 1786-95	7.8	30
70	Block of neuronal tetrodotoxin-resistant Na ⁺ currents by stereoisomers of piperidine local anesthetics. <i>Anesthesia and Analgesia</i> , 2000 , 91, 1499-505	3.9	29
69	Pressure Overload Creates Right Ventricular Diastolic Dysfunction in a Mouse Model: Assessment by Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2015 , 28, 828-43	5.8	28

68	Nuclear and cytoplasmic death receptor 5 as prognostic factors in patients with non-small cell lung cancer treated with chemotherapy. <i>Lung Cancer</i> , 2009 , 65, 98-104	5.9	27
67	Redox regulation of ion channels in the pulmonary circulation. <i>Antioxidants and Redox Signaling</i> , 2015 , 22, 465-85	8.4	26
66	Long non-coding RNAs influence the transcriptome in pulmonary arterial hypertension: the role of PAXIP1-AS1. <i>Journal of Pathology</i> , 2019 , 247, 357-370	9.4	26
65	Contribution of the K(Ca) channel to membrane potential and O ₂ sensitivity is decreased in an ovine PPHN model. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2002 , 283, L1103-9	5.8	25
64	Local anaesthetics block hyperpolarization-activated inward current in rat small dorsal root ganglion neurones. <i>British Journal of Pharmacology</i> , 2003 , 139, 1273-80	8.6	25
63	The glycerol backbone of phospholipids derives from noncarbohydrate precursors in starved lung cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6225-6230	11.5	25
62	TRPV4 mutations in children with congenital distal spinal muscular atrophy. <i>Neurogenetics</i> , 2012 , 13, 195-203	3	24
61	Effect of bupivacaine on ATP-dependent potassium channels in rat cardiomyocytes. <i>British Journal of Anaesthesia</i> , 1999 , 82, 435-8	5.4	24
60	Interaction of Tissue Engineering Substrates with Serum Proteins and Its Influence on Human Primary Endothelial Cells. <i>Biomacromolecules</i> , 2017 , 18, 413-421	6.9	23
59	Mechanisms of lidocaine action on subtypes of spinal dorsal horn neurons subject to the diverse roles of Na ⁽⁺⁾ and K ⁽⁺⁾ channels in action potential generation. <i>Anesthesia and Analgesia</i> , 2014 , 119, 463-470	3.9	23
58	Disconnect between Fibrotic Response and Right Ventricular Dysfunction. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 1550-1560	10.2	23
57	Resident cell lineages are preserved in pulmonary vascular remodeling. <i>Journal of Pathology</i> , 2018 , 244, 485-498	9.4	22
56	Impact of atomization technique on the stability and transport efficiency of nebulized liposomes harboring different surface characteristics. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014 , 88, 1076-85	5.7	22
55	Interaction of eosinophils with endothelial cells is modulated by prostaglandin EP4 receptors. <i>European Journal of Immunology</i> , 2011 , 41, 2379-89	6.1	22
54	TASK-1 Regulates Apoptosis and Proliferation in a Subset of Non-Small Cell Lung Cancers. <i>PLoS ONE</i> , 2016 , 11, e0157453	3.7	22
53	The Role of PGE in Alveolar Epithelial and Lung Microvascular Endothelial Crosstalk. <i>Scientific Reports</i> , 2017 , 7, 7923	4.9	21
52	Liposomal nanoparticles encapsulating iloprost exhibit enhanced vasodilation in pulmonary arteries. <i>International Journal of Nanomedicine</i> , 2014 , 9, 3249-61	7.3	21
51	Suppression of potassium conductance by droperidol has influence on excitability of spinal sensory neurons. <i>Anesthesiology</i> , 2001 , 94, 280-9	4.3	21

50	Changes in pulmonary exercise haemodynamics in scleroderma: a 4-year prospective study. <i>European Respiratory Journal</i> , 2017 , 50,	13.6	20
49	Treprostinil potentiates the positive inotropic effect of catecholamines in adult rat ventricular cardiomyocytes. <i>British Journal of Pharmacology</i> , 2007 , 151, 779-86	8.6	20
48	Importance of kynurenine in pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 313, L741-L751	5.8	19
47	Automated integer programming based separation of arteries and veins from thoracic CT images. <i>Medical Image Analysis</i> , 2016 , 34, 109-122	15.4	19
46	Docosahexaenoic acid causes rapid pulmonary arterial relaxation via KCa channel-mediated hyperpolarisation in pulmonary hypertension. <i>European Respiratory Journal</i> , 2016 , 48, 1127-1136	13.6	18
45	Non-invasive determination of pulmonary hypertension with dynamic contrast-enhanced computed tomography: a pilot study. <i>European Radiology</i> , 2014 , 24, 668-76	8	18
44	Ion channels and transporters as therapeutic targets in the pulmonary circulation. <i>Pharmacology & Therapeutics</i> , 2014 , 144, 349-68	13.9	18
43	Mexiletine and lidocaine suppress the excitability of dorsal horn neurons. <i>Anesthesia and Analgesia</i> , 2009 , 109, 258-64	3.9	16
42	Meperidine suppresses the excitability of spinal dorsal horn neurons. <i>Anesthesiology</i> , 2004 , 100, 947-55	4.3	16
41	Pathobiology, pathology and genetics of pulmonary hypertension: Update from the Cologne Consensus Conference 2018. <i>International Journal of Cardiology</i> , 2018 , 272S, 4-10	3.2	16
40	TR3 is involved in hypoxia-induced apoptosis resistance in lung cancer cells downstream of HIF-1 α . <i>Lung Cancer</i> , 2017 , 111, 15-22	5.9	15
39	Differential block of fast and slow inactivating tetrodotoxin-sensitive sodium channels by droperidol in spinal dorsal horn neurons. <i>Anesthesiology</i> , 2000 , 92, 1667-76	4.3	15
38	IL-1 receptor blockade skews inflammation towards Th2 in a mouse model of systemic sclerosis. <i>European Respiratory Journal</i> , 2019 , 54,	13.6	14
37	Nordexfenfluramine causes more severe pulmonary vasoconstriction than dexfenfluramine. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004 , 286, L531-8	5.8	14
36	Targeting TASK-1 channels as a therapeutic approach. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 661, 459-73	3.6	14
35	CD133+ cells in pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2016 , 48, 459-69	13.6	14
34	Nano- and Micropatterned Polycaprolactone Cellulose Composite Surfaces with Tunable Protein Adsorption, Fibrin Clot Formation, and Endothelial Cellular Response. <i>Biomacromolecules</i> , 2019 , 20, 2327-2337	6.9	13
33	Fra2 Overexpression in Mice Leads to Non-allergic Asthma Development in an IL-13 Dependent Manner. <i>Frontiers in Immunology</i> , 2018 , 9, 2018	8.4	13

32	PDGFR α and β MA mark two distinct mesenchymal cell populations involved in parenchymal and vascular remodeling in pulmonary fibrosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 318, L684-L697	5.8	12
31	Rho-Kinase Inhibition Ameliorates Dasatinib-Induced Endothelial Dysfunction and Pulmonary Hypertension. <i>Frontiers in Physiology</i> , 2018 , 9, 537	4.6	12
30	Hypoxic vascular response and ventilation/perfusion matching in end-stage COPD may depend on p22phox. <i>European Respiratory Journal</i> , 2017 , 50,	13.6	12
29	Enhancement of delayed-rectifier potassium conductance by low concentrations of local anaesthetics in spinal sensory neurones. <i>British Journal of Pharmacology</i> , 2002 , 136, 540-9	8.6	12
28	Basic electrical properties of in situ endothelial cells of small pulmonary arteries during postnatal development. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001 , 25, 285-90	5.7	12
27	ALK3 undergoes ligand-independent homodimerization and BMP-induced heterodimerization with ALK2. <i>Free Radical Biology and Medicine</i> , 2018 , 129, 127-137	7.8	12
26	Docosahexaenoic acid (DHA)-induced heme oxygenase-1 attenuates cytotoxic effects of DHA in vascular smooth muscle cells. <i>Atherosclerosis</i> , 2013 , 230, 406-13	3.1	11
25	Double-stranded RNA attenuates the barrier function of human pulmonary artery endothelial cells. <i>PLoS ONE</i> , 2014 , 8, e63776	3.7	11
24	Basement Membrane Remodeling Controls Endothelial Function in Idiopathic Pulmonary Arterial Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020 , 63, 104-117	5.7	9
23	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> , 2018 , 315, L502-L516	5.8	9
22	Origin of neomuscularized vessels in mice exposed to chronic hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2011 , 179, 342-5	2.8	9
21	Use of ECG and Other Simple Non-Invasive Tools to Assess Pulmonary Hypertension. <i>PLoS ONE</i> , 2016 , 11, e0168706	3.7	9
20	Amitriptyline and carbamazepine utilize voltage-gated ion channel suppression to impair excitability of sensory dorsal horn neurons in thin tissue slice: An in vitro study. <i>Neuroscience Research</i> , 2016 , 109, 16-27	2.9	8
19	Determination of cardiac output with dynamic contrast-enhanced computed tomography. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 1871-8	2.5	8
18	Healthy Lung Vessel Morphology Derived From Thoracic Computed Tomography. <i>Frontiers in Physiology</i> , 2018 , 9, 346	4.6	7
17	Functional and molecular factors associated with TAPSE in hypoxic pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 311, L59-73	5.8	7
16	Docking of Meprin α to Heparan Sulphate Protects the Endothelium from Inflammatory Cell Extravasation. <i>Thrombosis and Haemostasis</i> , 2018 , 118, 1790-1802	7	6
15	Increased Expression of p22phox Mediates Airway Hyperresponsiveness in an Experimental Model of Asthma. <i>Antioxidants and Redox Signaling</i> , 2017 , 27, 1460-1472	8.4	5

14	No erythropoietin-induced growth is observed in non-small cell lung cancer cells. <i>International Journal of Oncology</i> , 2018 , 52, 518-526	4.4	5
13	Involvement of CFTR in the pathogenesis of pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2021 , 58,	13.6	5
12	Letter by Olschewski et al Regarding Article, "Upregulation of K2P3.1 K+ Current Causes Action Potential Shortening in Patients With Chronic Atrial Fibrillation". <i>Circulation</i> , 2016 , 133, e439	16.7	4
11	Lack of ABCG2 Leads to Biventricular Dysfunction and Remodeling in Response to Hypoxia. <i>Frontiers in Physiology</i> , 2017 , 8, 98	4.6	3
10	Endothelial Dysfunction Following Enhanced TMEM16A Activity in Human Pulmonary Arteries. <i>Cells</i> , 2020 , 9,	7.9	3
9	Simple method of thawing cryo-stored samples preserves ultrastructural features in electron microscopy. <i>Histochemistry and Cell Biology</i> , 2021 , 155, 593-603	2.4	3
8	Blocking potassium channels: a new principle for treating restenosis?. <i>Cardiovascular Research</i> , 2011 , 89, 255-7	9.9	2
7	No indication of insulin resistance in idiopathic pulmonary arterial hypertension with preserved physical activity. <i>European Respiratory Journal</i> , 2020 , 55,	13.6	1
6	Hypoxic pulmonary vasoconstriction and hypertension 2011 , 46-58		1
5	TMEM16A Potentiation: Possible Drawbacks. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 202, 904-905	10.2	0
4	Pulmonary fibrosis in Fra-2 transgenic mice is associated with decreased numbers of alveolar macrophages and increased susceptibility to pneumococcal pneumonia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021 , 320, L916-L925	5.8	0
3	Redox Signaling in Oxygen Sensing by Vessels 2007 , 171-188		
2	Redox Signaling in Hypoxic Pulmonary Vasoconstriction 2005 , 27-33		
1	Automatic Artery-Vein Separation from Thoracic CT Images Using Integer Programming. <i>Lecture Notes in Computer Science</i> , 2015 , 36-43	0.9	