Rebecca R Vanderpool

List of Publications by Year
in descending order

77 papers	3,871 citations	159585 30 h-index	128289 60 g-index
77 all docs	77 docs citations	77 times ranked	4081 citing authors

#	Article	IF	Citations
1	Vascular stiffness mechanoactivates YAP/TAZ-dependent glutaminolysis to drive pulmonary hypertension. Journal of Clinical Investigation, 2016, 126, 3313-3335.	8.2	303
2	The transpulmonary pressure gradient for the diagnosis of pulmonary vascular disease. European Respiratory Journal, 2013, 41, 217-223.	6.7	273
3	RV-pulmonary arterial coupling predicts outcome in patients referred for pulmonary hypertension. Heart, 2015, 101, 37-43.	2.9	271
4	Exercise-induced Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 576-583.	5.6	253
5	Validation of the Tricuspid Annular Plane Systolic Excursion/Systolic Pulmonary Artery Pressure Ratio for the Assessment of Right Ventricular-Arterial Coupling in Severe Pulmonary Hypertension. Circulation: Cardiovascular Imaging, 2019, 12, e009047.	2.6	222
6	SIRT3â€“AMP-Activated Protein Kinase Activation by Nitrite and Metformin Improves Hyperglycemia and Normalizes Pulmonary Hypertension Associated With Heart Failure With Preserved Ejection Fraction. Circulation, 2016, 133, 717-731.	1.6	208
7	Accuracy and precision of echocardiography versus right heart catheterization for the assessment of pulmonary hypertension. International Journal of Cardiology, 2013, 168, 4058-4062.	1.7	182
8	Association Between Hemodynamic Markers of Pulmonary Hypertension and Outcomes in Heart Failure With Preserved Ejection Fraction. JAMA Cardiology, 2018, 3, 298.	6.1	162
9	Reserve of Right Ventricular-Arterial Coupling in the Setting of Chronic Overload. Circulation: Heart Failure, 2019, 12, e005512.	3.9	158
10	Exercise Stress Echocardiography of the Pulmonary Circulation. Chest, 2012, 142, 1158-1165.	0.8	149
11	Prognostic Relevance of Pulmonary Arterial Compliance in Patients With Chronic Heart Failure. Chest, 2014, 145, 1064-1070.	0.8	127
12	HIPPOâ€“Integrin-linked Kinase Cross-Talk Controls Self-Sustaining Proliferation and Survival in Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 866-877.	5.6	98
13	Statement on imaging and pulmonary hypertension from the Pulmonary Vascular Research Institute (PVRI). Pulmonary Circulation, 2019, 9, 1-32.	1.7	96
14	Imaging right ventricular function to predict outcome in pulmonary arterial hypertension. International Journal of Cardiology, 2016, 218, 206-211.	1.7	94
15	Exercise Pathophysiology in Patients With Chronic Mountain Sickness. Chest, 2012, 142, 877-884.	0.8	75
16	Cardiac Magnetic Resonance Imaging-Based Right Ventricular Strain Analysis for Assessment of Coupling and Diastolic Function in Pulmonary Hypertension. JACC: Cardiovascular Imaging, 2019, 12, 2155-2164.	5.3	75
17	Pulmonary Hypertension and Chronic Mountain Sickness. High Altitude Medicine and Biology, 2013, 14, 117-125.	0.9	63
18	Development of a Mouse Model of Metabolic Syndrome, Pulmonary Hypertension, and Heart Failure with Preserved Ejection Fraction. American Journal of Respiratory Cell and Molecular Biology, 2017, 56, 497-505.	2.9	61

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19	Simple functional imaging of the right ventricle in pulmonary hypertension: Can right ventricular ejection fraction be improved?. International Journal of Cardiology, 2016, 223, 93-94.	1.7	50
20	Pathogenic Role of mTORC1 and mTORC2 in Pulmonary Hypertension. JACC Basic To Translational Science, 2018, 3, 744-762.	4.1	47
21	Right ventricular function correlates of right atrial strain in pulmonary hypertension: a combined cardiac magnetic resonance and conductance catheter study. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H156-H164.	3.2	42
22	Pulmonary vascular remodeling in isolated mouse lungs: Effects on pulsatile pressureâ€“flow relationships. Journal of Biomechanics, 2007, 40, 993-1001.	2.1	40
23	Dobutamine Stress Echocardiography for the Assessment of Pressure-Flow Relationships of the Pulmonary Circulation. Chest, 2014, 146, 959-966.	0.8	40
24	Right heart failure in pulmonary hypertension: Diagnosis and new perspectives on vascular and direct right ventricular treatment. British Journal of Pharmacology, 2021, 178, 90-107.	5.4	40
25	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
26	Effects of acute Rho kinase inhibition on chronic hypoxia-induced changes in proximal and distal pulmonary arterial structure and function. Journal of Applied Physiology, 2011, 110, 188-198.	2.5	38
27	Biomechanical and Hemodynamic Measures of Right Ventricular Diastolic Function: Translating Tissue Biomechanics to Clinical Relevance. Journal of the American Heart Association, 2017, 6, .	3.7	38
28	Pharmacological Inhibition of mTOR Kinase Reverses Right Ventricle Remodeling and Improves Right Ventricle Structure and Function in Rats. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 615-625.	2.9	37
29	How prostacyclin therapy improves right ventricular function in pulmonary arterial hypertension. European Respiratory Journal, 2017, 50, 1700764.	6.7	36
30	Dynamic right ventricularâ€“pulmonary arterial uncoupling during maximum incremental exercise in exercise pulmonary hypertension and pulmonary arterial hypertension. Pulmonary Circulation, 2019, 9, 1-10.	1.7	36
31	Tetramethylpyrazine: A promising drug for the treatment of pulmonary hypertension. British Journal of Pharmacology, 2020, 177, 2743-2764.	5.4	36
32	Hematocrit-corrected Pulmonary Vascular Resistance. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 305-309.	5.6	33
33	A novel single-beat approach to assess right ventricular systolic function. Journal of Applied Physiology, 2018, 124, 283-290.	2.5	31
34	Clinical implications of idiopathic pulmonary arterial hypertension phenotypes defined by cluster analysis. Journal of Heart and Lung Transplantation, 2020, 39, 310-320.	0.6	31
35	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
36	Echocardiography of pulmonary vascular function in asymptomatic carriers ofBMPR2mutations. European Respiratory Journal, 2012, 40, 1287-1289.	6.7	23

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37	Harnessing the Nitrateâ€“Nitriteâ€“Nitric Oxide Pathway for Therapy of Heart Failure With Preserved Ejection Fraction. Circulation, 2015, 131, 334-336.	1.6	22
38	Impaired right ventricular lusitropy is associated with ventilatory inefficiency in pulmonary arterial hypertension. European Respiratory Journal, 2019, 54, 1900342.	6.7	21
39	Diabetes Mellitus Associates with Increased Right Ventricular Afterload and Remodeling in Pulmonary Arterial Hypertension. American Journal of Medicine, 2018, 131, 702.e7-702.e13.	1.5	20
40	Treatment With Treprostinil and Metformin Normalizes Hyperglycemia and Improves Cardiac Function in Pulmonary Hypertension Associated With Heart Failure With Preserved Ejection Fraction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1543-1558.	2.4	20
41	The Right Heart-Pulmonary Circulation Unit. Heart Failure Clinics, 2018, 14, 237-245.	2.1	18
42	Surfing the right ventricular pressure waveform: methods to assess global, systolic and diastolic RV function from a clinical right heart catheterization. Pulmonary Circulation, 2020, 10, 1-11.	1.7	18
43	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
44	Impedance in Isolated Mouse Lungs for the Determination of Site of Action of Vasoactive Agents and Disease. Annals of Biomedical Engineering, 2010, 38, 1854-1861.	2.5	16
45	Association of right atrial conduit phase with right ventricular lusitropic function in pulmonary hypertension. International Journal of Cardiovascular Imaging, 2020, 36, 633-642.	1.5	16
46	Increased Pulmonary Vascular Resistance in Early Stage Systemic Hypertension: A Resting and Exercise Stress Echocardiography Study. Canadian Journal of Cardiology, 2015, 31, 537-543.	1.7	15
47	Incremental value of cardiopulmonary exercise testing in intermediate-risk pulmonary arterial hypertension. Journal of Heart and Lung Transplantation, 2022, 41, 780-790.	0.6	13
48	When it all comes down to pressure: right ventricular ejection fraction at cardiac catheterisation. European Respiratory Journal, 2020, 55, 1902341.	6.7	12
49	Unmasking right ventricular-arterial uncoupling during fluid challenge in pulmonary hypertension. Journal of Heart and Lung Transplantation, 2022, 41, 345-355.	0.6	12
50	Transcriptomic profiles in pulmonary arterial hypertension associate with disease severity and identify novel candidate genes. Pulmonary Circulation, 2020, 10, 1-5.	1.7	11
51	Patchy deletion of Bmpr1a potentiates proximal pulmonary artery remodeling in mice exposed to chronic hypoxia. Biomechanics and Modeling in Mechanobiology, 2013, 12, 33-42.	2.8	10
52	Is p38 MAPK a Dark Force in Right Ventricular Hypertrophy and Failure in Pulmonary Arterial Hypertension?. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 506-508.	2.9	10
53	Longitudinal Evaluation of Pulmonary Arterial Hypertension in a Rhesus Macaque (Macaca mulatta) Model of HIV Infection. Comparative Medicine, 2018, 68, 461-473.	1.0	10
54	Progress in Pulmonary Hypertension with Left Heart Failure. Beyond New Definitions and Acronyms. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 1152-1154.	5.6	9

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55	The Right Ventricular-Pulmonary Arterial Coupling and Diastolic Function Response to Therapy in Pulmonary Arterial Hypertension. Chest, 2022, 161, 1048-1059.	0.8	9
56	Characterization of the Isolated, Ventilated, and Instrumented Mouse Lung Perfused with Pulsatile Flow. Journal of Visualized Experiments, 2011, , .	0.3	8
57	Differential effects of integrinâ€linked kinase inhibitor Cpd22 on severe pulmonary hypertension in male and female rats. Pulmonary Circulation, 2020, 10, 1-12.	1.7	8
58	Right ventricular load and contractility in HIV-associated pulmonary hypertension. PLoS ONE, 2021, 16, e0243274.	2.5	7
59	Relaxin Inhibits Ventricular Arrhythmia and Asystole in Rats With Pulmonary Arterial Hypertension. Frontiers in Cardiovascular Medicine, 2021, 8, 668222.	2.4	7
60	How to measure peripheral pulmonary vascular mechanics. , 2009, 2009, 173-6.		6
61	Comprehensive echocardiographic evaluation of the right heart in patients with pulmonary vascular diseases: the PVDOMICS experience. European Heart Journal Cardiovascular Imaging, 2022, 23, 958-969.	1.2	6
62	Right ventricular afterload predicts longâ€term transition from parenteral to oral treprostinil in pulmonary arterial hypertension. Pulmonary Circulation, 2018, 8, 1-8.	1.7	5
63	Right ventricular dyssynchrony: from load-independent right ventricular function to wall stress in severe pulmonary arterial hypertension. Pulmonary Circulation, 2020, 10, 204589402092575.	1.7	5
64	Mineralocorticoid receptor antagonist treatment of established pulmonary arterial hypertension improves interventricular dependence in the SU5416-hypoxia rat model. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 322, L315-L332.	2.9	4
65	Recent advancements in pulmonary arterial hypertension and right heart failure research: overview of selected abstracts from ATS2020 and emerging COVIDâ€19 research. Pulmonary Circulation, 2021, 11, 1-13.	1.7	2
66	Comparing Pulmonary Input And Characteristic Impedance Determined In The Time And Frequency Domains: The Effects Of Chronic Hypoxia. , 2010, , .		1
67	Fixed Vs. Reactive Changes In The Pulmonary Vasculature With Chronic Hypoxia: Use Of A Hemodynamic Model To Interpret Pressure-flow Data. , 2010, , .		0
68	The Effects Of Pulmonary Vascular Collagen Accumulation On Right Ventricular Afterload Investigated Using A Genetically Engineered Mouse Model. , 2010, , .		0
69	Patchy Deletion Of Bmpr1a In Smooth Muscle Cells Potentiates Chronic Hypoxia-Induced Proximal Arterial Remodeling. , 2011, , .		0
70	Prediction Of Mean Pulmonary Artery Pressures At Exercise From Baseline Resting Measurements. , 2012, , .		0
71	Gender Differences In The Normal Human Pulmonary Circulation. , 2012, , .		0
72	Looking backwards: is it time to assess veno-atrial interactions in pulmonary arterial hypertension?. European Respiratory Journal, 2019, 54, 1901598.	6.7	0

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73	Advanced Imaging in Pulmonary Vascular Disease. Clinics in Chest Medicine, 2021, 42, 101-112.	2.1	0
74	Measurement of Pulmonary Impedance in Live Mice and Changes With Chronic Hypoxia. , 2010, , .		0
75	Circulating transcriptome as a signature for the diagnosis of pulmonary arterial hypertension.. FASEB Journal, 2018, 32, 586.4.	0.5	0
76	Increased Pulmonary Vascular Impedance in Patients with Severe Pulmonary Arterial Hypertension. FASEB Journal, 2019, 33, .	0.5	0
77	Early Hyperdynamic Sepsis Alters Coronary Blood Flow Regulation in Porcine Fecal Peritonitis. Frontiers in Physiology, 2021, 12, 754570.	2.8	0