

Marc Simon

List of Publications by Year in descending order

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56
papers

1,673
citations

331259

21
h-index

301761

39
g-index

57
all docs

57
docs citations

57
times ranked

2337
citing authors

#	ARTICLE	IF	CITATIONS
1	Vascular stiffness mechanoactivates YAP/TAZ-dependent glutaminolysis to drive pulmonary hypertension. <i>Journal of Clinical Investigation</i> , 2016, 126, 3313-3335.	3.9	303
2	RV-pulmonary arterial coupling predicts outcome in patients referred for pulmonary hypertension. <i>Heart</i> , 2015, 101, 37-43.	1.2	271
3	Structural and Mechanical Adaptations of Right Ventricle Free Wall Myocardium to Pressure Overload. <i>Annals of Biomedical Engineering</i> , 2014, 42, 2451-2465.	1.3	89
4	Left Ventricular Remodeling and Myocardial Recovery on Mechanical Circulatory Support. <i>Journal of Cardiac Failure</i> , 2010, 16, 99-105.	0.7	76
5	Assessment and treatment of right ventricular failure. <i>Nature Reviews Cardiology</i> , 2013, 10, 204-218.	6.1	72
6	A novel constitutive model for passive right ventricular myocardium: evidence for myofiber-collagen fiber mechanical coupling. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 561-581.	1.4	61
7	Simple functional imaging of the right ventricle in pulmonary hypertension: Can right ventricular ejection fraction be improved?. <i>International Journal of Cardiology</i> , 2016, 223, 93-94.	0.8	50
8	Angiotensin Receptor-Nepilysin Inhibition Attenuates Right Ventricular Remodeling in Pulmonary Hypertension. <i>Journal of the American Heart Association</i> , 2020, 9, e015708.	1.6	49
9	Right Ventricular Dysfunction and Failure in Chronic Pressure Overload. <i>Cardiology Research and Practice</i> , 2011, 2011, 1-7.	0.5	46
10	Transmural remodeling of right ventricular myocardium in response to pulmonary arterial hypertension. <i>APL Bioengineering</i> , 2017, 1, .	3.3	40
11	Phenotyping the Right Ventricle in Patients with Pulmonary Hypertension. <i>Clinical and Translational Science</i> , 2009, 2, 294-299.	1.5	39
12	Biomechanical and Hemodynamic Measures of Right Ventricular Diastolic Function: Translating Tissue Biomechanics to Clinical Relevance. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	38
13	Identifying right ventricular dysfunction with tissue Doppler imaging in pulmonary hypertension. <i>International Journal of Cardiology</i> , 2008, 128, 359-363.	0.8	37
14	How prostacyclin therapy improves right ventricular function in pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2017, 50, 1700764.	3.1	36
15	A murine experimental model for the mechanical behaviour of viable right-ventricular myocardium. <i>Journal of Physiology</i> , 2012, 590, 4571-4584.	1.3	33
16	Hemolysis-induced Lung Vascular Leakage Contributes to the Development of Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 59, 334-345.	1.4	33
17	Tissue Doppler Imaging of Right Ventricular Decompensation in Pulmonary Hypertension. <i>Congestive Heart Failure</i> , 2009, 15, 271-276.	2.0	31
18	Clinical Differences and Outcomes between Methamphetamine-associated and Idiopathic Pulmonary Arterial Hypertension in the Pulmonary Hypertension Association Registry. <i>Annals of the American Thoracic Society</i> , 2021, 18, 613-622.	1.5	27

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19	Elevated Pulse Pressure is Associated with Hemolysis, Proteinuria and Chronic Kidney Disease in Sickle Cell Disease. PLoS ONE, 2014, 9, e114309.	1.1	26
20	Comprehensive Right-Sided Assessment for Transcatheter Aortic Valve Replacement Risk Stratification: Time for a Change. Journal of the American Society of Echocardiography, 2017, 30, 47-51.	1.2	26
21	The Prognostic Value of Right Atrial Strain Imaging in Patients with Precapillary Pulmonary Hypertension. Journal of the American Society of Echocardiography, 2021, 34, 851-861.e1.	1.2	25
22	Current Understanding of the Right Ventricle Structure and Function in Pulmonary Arterial Hypertension. Frontiers in Physiology, 2021, 12, 641310.	1.3	22
23	Isolated Right Ventricular Dysfunction in Patients With Human Immunodeficiency Virus. Journal of Cardiac Failure, 2014, 20, 414-421.	0.7	21
24	Pulmonary vascular disease in the setting of heart failure with preserved ejection fraction. Trends in Cardiovascular Medicine, 2019, 29, 207-217.	2.3	20
25	Current and Future Considerations in the Use of Mechanical Circulatory Support Devices. Annual Review of Biomedical Engineering, 2008, 10, 59-84.	5.7	17
26	Alterations in platelet bioenergetics in Group 2 PH-HFpEF patients. PLoS ONE, 2019, 14, e0220490.	1.1	17
27	Chemokine receptor patterns and right heart failure in mechanical circulatory support. Journal of Heart and Lung Transplantation, 2017, 36, 657-665.	0.3	16
28	Gender Differences in Mortality After Left Ventricular Assist Device Implant: A Causal Mediation Analysis Approach. ASAIO Journal, 2021, 67, 614-621.	0.9	15
29	Pulmonary Hypertension in the Context of Heart Failure With Preserved Ejection Fraction. Chest, 2021, 160, 2232-2246.	0.4	14
30	Update in Pulmonary Vascular Disease 2015. American Journal of Respiratory and Critical Care Medicine, 2016, 193, 1337-1344.	2.5	10
31	Longitudinal Evaluation of Pulmonary Arterial Hypertension in a Rhesus Macaque (Macaca mulatta) Model of HIV Infection. Comparative Medicine, 2018, 68, 461-473.	0.4	10
32	The Effects of Inhaled Sodium Nitrite on Pulmonary Vascular Impedance in Patients With Pulmonary Hypertension Associated with Heart Failure With Preserved Ejection Fraction. Journal of Cardiac Failure, 2020, 26, 654-661.	0.7	10
33	HIV-associated Pulmonary Arterial Hypertension: A Report from the Pulmonary Hypertension Association Registry. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 1121-1124.	2.5	10
34	Creation and Validation of a Novel Sex-Specific Mortality Risk Score in LVAD Recipients. Journal of the American Heart Association, 2021, 10, e020019.	1.6	9
35	PROVIDE-HF primary results: Patient-Reported Outcomes in Investigation following Initiation of Drug therapy with Entresto (sacubitril/valsartan) in heart failure. American Heart Journal, 2020, 230, 35-43.	1.2	8
36	Right ventricular load and contractility in HIV-associated pulmonary hypertension. PLoS ONE, 2021, 16, e0243274.	1.1	7

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37	A new computational framework for anatomically consistent 3D statistical shape analysis with clinical imaging applications. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2013, 1, 13-27.	1.3	6
38	Methods for Using 3-D Ultrasound Speckle Tracking in Biaxial Mechanical Testing of Biological Tissue Samples. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1029-1042.	0.7	6
39	A comparative analysis of global shape analysis methods for the assessment of the human right ventricle. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2016, 4, 327-343.	1.3	5
40	Current and Future Considerations in the Use of Mechanical Circulatory Support Devices: An Update, 2008–2018. <i>Annual Review of Biomedical Engineering</i> , 2019, 21, 33-60.	5.7	5
41	Induced bioresistance via BNP detection for machine learning-based risk assessment. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112903.	5.3	5
42	A pilot study of dimethyl fumarate in pulmonary arterial hypertension associated with systemic sclerosis. <i>Journal of Scleroderma and Related Disorders</i> , 2021, 6, 242-246.	1.0	5
43	The Effects of Healthy Aging on Right Ventricular Structure and Biomechanical Properties: A Pilot Study. <i>Frontiers in Medicine</i> , 2021, 8, 751338.	1.2	5
44	A pilot study of oral treprostinil pharmacogenomics and treatment persistence in patients with pulmonary arterial hypertension. <i>Therapeutic Advances in Respiratory Disease</i> , 2021, 15, 175346662110136.	1.0	4
45	An exploratory assessment of stretch-induced transmural myocardial fiber kinematics in right ventricular pressure overload. <i>Scientific Reports</i> , 2021, 11, 3587.	1.6	4
46	Impact of four times daily dosing of oral treprostinil on tolerability and daily dose achieved in pulmonary hypertension. <i>Pulmonary Circulation</i> , 2018, 8, 1-4.	0.8	3
47	Equity, Diversity, and Inclusiveness in Cardiovascular Medicine and Health Care. <i>Journal of the American Heart Association</i> , 2020, 9, e019137.	1.6	3
48	Right Ventricular Shape Feature Quantification for Evaluation of Pulmonary Hypertension: Feasibility and Preliminary Associations With Clinical Outcome. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	0.6	3
49	Clearing Our Vision for Discerning Precapillary From Postcapillary Pulmonary Hypertension With the OPTICS Risk Score. <i>Journal of the American Heart Association</i> , 2020, 9, e017685.	1.6	1
50	Diversity, Equity, and Inclusiveness in Medicine and Cardiology: Next Steps for JAHA. <i>Journal of the American Heart Association</i> , 2020, 9, e019307.	1.6	1
51	Ask the Expert: Perioperative Management of Pulmonary Hypertensive Crisis. <i>Advances in Pulmonary Hypertension</i> , 2013, 12, 38-39.	0.1	1
52	A clinically applicable strategy to estimate the in vivo distribution of mechanical material properties of the right ventricular wall. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, 38, e3548.	1.0	1
53	Matrix metalloproteinases in right ventricular failure. <i>Nature Reviews Cardiology</i> , 2013, 10, 559-559.	6.1	0
54	Left Ventricular Ejection Fraction Cut Point of 50% for Heart Failure With Preserved Ejection Fraction—Reply. <i>JAMA Cardiology</i> , 2018, 3, 1023.	3.0	0

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55	Nitric Oxide Therapeutics in Pulmonary Vascular Disease. <i>Advances in Pulmonary Hypertension</i> , 2014, 13, 134-137.	0.1	0
56	Therapeutic approaches to improve pulmonary arterial load and right ventricularâ€“pulmonary arterial coupling. , 2022, , 935-958.		0