

Marc Simon

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | 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 |
| 3 | HIV-associated Pulmonary Arterial Hypertension: A Report from the Pulmonary Hypertension Association Registry. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 1121-1124. | 2.5 | 10 |
| 4 | Therapeutic approaches to improve pulmonary arterial load and right ventricularâ€“pulmonary arterial coupling. , 2022, , 935-958. | | 0 |
| 5 | Induced bioresistance via BNP detection for machine learning-based risk assessment. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112903. | 5.3 | 5 |
| 6 | 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 |
| 7 | 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 |
| 8 | Right ventricular load and contractility in HIV-associated pulmonary hypertension. <i>PLoS ONE</i> , 2021, 16, e0243274. | 1.1 | 7 |
| 9 | 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 |
| 10 | Creation and Validation of a Novel Sexâ€“Specific Mortality Risk Score in LVAD Recipients. <i>Journal of the American Heart Association</i> , 2021, 10, e020019. | 1.6 | 9 |
| 11 | 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 |
| 12 | Current Understanding of the Right Ventricle Structure and Function in Pulmonary Arterial Hypertension. <i>Frontiers in Physiology</i> , 2021, 12, 641310. | 1.3 | 22 |
| 13 | The Prognostic Value of Right Atrial Strain Imaging in Patients with Precapillary Pulmonary Hypertension. <i>Journal of the American Society of Echocardiography</i> , 2021, 34, 851-861.e1. | 1.2 | 25 |
| 14 | Pulmonary Hypertension in the Context ofâ€“Heart Failure With Preserved Ejection Fraction. <i>Chest</i> , 2021, 160, 2232-2246. | 0.4 | 14 |
| 15 | Gender Differences in Mortality After Left Ventricular Assist Device Implant: A Causal Mediation Analysis Approach. <i>ASAIO Journal</i> , 2021, 67, 614-621. | 0.9 | 15 |
| 16 | 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 |
| 17 | PROVIDE-HF primary results: Patient-Reported Outcomes inVestigation following Initiation of Drug therapy with Entresto (sacubitril/valsartan) in heart failure. <i>American Heart Journal</i> , 2020, 230, 35-43. | 1.2 | 8 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | Equity, Diversity, and Inclusiveness in Cardiovascular Medicine and Health Care. <i>Journal of the American Heart Association</i> , 2020, 9, e019137. | 1.6 | 3 |
| 20 | 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 |
| 21 | Angiotensin Receptor–Neprilysin Inhibition Attenuates Right Ventricular Remodeling in Pulmonary Hypertension. <i>Journal of the American Heart Association</i> , 2020, 9, e015708. | 1.6 | 49 |
| 22 | The Effects of Inhaled Sodium Nitrite on Pulmonary Vascular Impedance in Patients With Pulmonary Hypertension Associated with Heart Failure With Preserved Ejection Fraction. <i>Journal of Cardiac Failure</i> , 2020, 26, 654-661. | 0.7 | 10 |
| 23 | Pulmonary vascular disease in the setting of heart failure with preserved ejection fraction. <i>Trends in Cardiovascular Medicine</i> , 2019, 29, 207-217. | 2.3 | 20 |
| 24 | Alterations in platelet bioenergetics in Group 2 PH-HFpEF patients. <i>PLoS ONE</i> , 2019, 14, e0220490. | 1.1 | 17 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | Longitudinal Evaluation of Pulmonary Arterial Hypertension in a Rhesus Macaque (<i>Macaca mulatta</i>) Model of HIV Infection. <i>Comparative Medicine</i> , 2018, 68, 461-473. | 0.4 | 10 |
| 29 | 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 |
| 30 | Chemokine receptor patterns and right heart failure in mechanical circulatory support. <i>Journal of Heart and Lung Transplantation</i> , 2017, 36, 657-665. | 0.3 | 16 |
| 31 | Comprehensive Right-Sided Assessment for Transcatheter Aortic Valve Replacement Risk Stratification: Time for a Change. <i>Journal of the American Society of Echocardiography</i> , 2017, 30, 47-51. | 1.2 | 26 |
| 32 | How prostacyclin therapy improves right ventricular function in pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2017, 50, 1700764. | 3.1 | 36 |
| 33 | 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 |
| 34 | 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 |
| 35 | Transmural remodeling of right ventricular myocardium in response to pulmonary arterial hypertension. <i>APL Bioengineering</i> , 2017, 1, . | 3.3 | 40 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | Update in Pulmonary Vascular Disease 2015. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, 1337-1344. | 2.5 | 10 |
| 39 | Vascular stiffness mechanoactivates YAP/TAZ-dependent glutaminolysis to drive pulmonary hypertension. <i>Journal of Clinical Investigation</i> , 2016, 126, 3313-3335. | 3.9 | 303 |
| 40 | RV-pulmonary arterial coupling predicts outcome in patients referred for pulmonary hypertension. <i>Heart</i> , 2015, 101, 37-43. | 1.2 | 271 |
| 41 | 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 |
| 42 | Elevated Pulse Pressure is Associated with Hemolysis, Proteinuria and Chronic Kidney Disease in Sickle Cell Disease. <i>PLoS ONE</i> , 2014, 9, e114309. | 1.1 | 26 |
| 43 | 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 |
| 44 | Isolated Right Ventricular Dysfunction in Patients With Human Immunodeficiency Virus. <i>Journal of Cardiac Failure</i> , 2014, 20, 414-421. | 0.7 | 21 |
| 45 | Nitric Oxide Therapeutics in Pulmonary Vascular Disease. <i>Advances in Pulmonary Hypertension</i> , 2014, 13, 134-137. | 0.1 | 0 |
| 46 | Matrix metalloproteinases in right ventricular failure. <i>Nature Reviews Cardiology</i> , 2013, 10, 559-559. | 6.1 | 0 |
| 47 | Assessment and treatment of right ventricular failure. <i>Nature Reviews Cardiology</i> , 2013, 10, 204-218. | 6.1 | 72 |
| 48 | 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 |
| 49 | Ask the Expert: Perioperative Management of Pulmonary Hypertensive Crisis. <i>Advances in Pulmonary Hypertension</i> , 2013, 12, 38-39. | 0.1 | 1 |
| 50 | 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 |
| 51 | Right Ventricular Dysfunction and Failure in Chronic Pressure Overload. <i>Cardiology Research and Practice</i> , 2011, 2011, 1-7. | 0.5 | 46 |
| 52 | Left Ventricular Remodeling and Myocardial Recovery on Mechanical Circulatory Support. <i>Journal of Cardiac Failure</i> , 2010, 16, 99-105. | 0.7 | 76 |
| 53 | Tissue Doppler Imaging of Right Ventricular Decompensation in Pulmonary Hypertension. <i>Congestive Heart Failure</i> , 2009, 15, 271-276. | 2.0 | 31 |
| 54 | Phenotyping the Right Ventricle in Patients with Pulmonary Hypertension. <i>Clinical and Translational Science</i> , 2009, 2, 294-299. | 1.5 | 39 |

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|----|---|-----|-----------|
| 55 | Identifying right ventricular dysfunction with tissue Doppler imaging in pulmonary hypertension. International Journal of Cardiology, 2008, 128, 359-363. | 0.8 | 37 |
| 56 | Current and Future Considerations in the Use of Mechanical Circulatory Support Devices. Annual Review of Biomedical Engineering, 2008, 10, 59-84. | 5.7 | 17 |