

Kevin L Sack

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

449
citations

759233

12
h-index

752698

20
g-index

22
all docs

22
docs citations

22
times ranked

461
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction and Validation of Subject-Specific Biventricular Finite-Element Models of Healthy and Failing Swine Hearts From High-Resolution DT-MRI. <i>Frontiers in Physiology</i> , 2018, 9, 539.	2.8	56
2	Using machine learning to characterize heart failure across the scales. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1987-2001.	2.8	53
3	Investigating the Role of Interventricular Interdependence in Development of Right Heart Dysfunction During LVAD Support: A Patient-Specific Methods-Based Approach. <i>Frontiers in Physiology</i> , 2018, 9, 520.	2.8	40
4	Prediction of Left Ventricular Mechanics Using Machine Learning. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	37
5	Partial LVAD Restores Ventricular Outputs and Normalizes LV but not RV Stress Distributions in the Acutely Failing Heart in Silico. <i>International Journal of Artificial Organs</i> , 2016, 39, 421-430.	1.4	32
6	Personalised computational cardiology: Patient-specific modelling in cardiac mechanics and biomaterial injection therapies for myocardial infarction. <i>Heart Failure Reviews</i> , 2016, 21, 815-826.	3.9	31
7	Multiscale characterization of heart failure. <i>Acta Biomaterialia</i> , 2019, 86, 66-76.	8.3	29
8	Relationship of Transmural Variations in Myofiber Contractility to Left Ventricular Ejection Fraction: Implications for Modeling Heart Failure Phenotype With Preserved Ejection Fraction. <i>Frontiers in Physiology</i> , 2018, 9, 1003.	2.8	22
9	Intra-myocardial alginate hydrogel injection acts as a left ventricular mid-wall constraint in swine. <i>Acta Biomaterialia</i> , 2020, 111, 170-180.	8.3	22
10	Biological tissue mechanics with fibres modelled as one-dimensional Cosserat continua. Applications to cardiac tissue. <i>International Journal of Solids and Structures</i> , 2016, 81, 84-94.	2.7	19
11	Kinematic boundary conditions substantially impact in silico ventricular function. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3151.	2.1	19
12	Method for Calibration of Left Ventricle Material Properties Using Three-Dimensional Echocardiography Endocardial Strains. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	14
13	Tricuspid valve regurgitation decreases after mitralclip implantation: Fluid structure interaction simulation. <i>Mechanics Research Communications</i> , 2019, 97, 96-100.	1.8	14
14	Impact of Aortic Stenosis on Myofiber Stress: Translational Application of Left Ventricle-Aortic Coupling Simulation. <i>Frontiers in Physiology</i> , 2020, 11, 574211.	2.8	13
15	On the Role of Ionic Modeling on the Signature of Cardiac Arrhythmias for Healthy and Diseased Hearts. <i>Mathematics</i> , 2020, 8, 2242.	2.2	10
16	In-silico study of the cardiac arrhythmogenic potential of biomaterial injection therapy. <i>Scientific Reports</i> , 2020, 10, 12990.	3.3	9
17	Application of feed forward and recurrent neural networks in simulation of left ventricular mechanics. <i>Scientific Reports</i> , 2020, 10, 22298.	3.3	9
18	Effect of intra-myocardial Alginate-LVR [®] injectates on fibre structure in porcine heart failure. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 87, 172-179.	3.1	6

#	ARTICLE	IF	CITATIONS
19	Endothelial cells on an aged subendothelial matrix display heterogeneous strain profiles in silico. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 1405-1414.	2.8	5
20	Cell focal adhesion clustering leads to decreased and homogenized basal strains. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3260.	2.1	5
21	Intramyocardial Injections to De-Stiffen the Heart: A Subject-Specific in Silico Approach. <i>MCB Molecular and Cellular Biomechanics</i> , 2019, 16, 185-197.	0.7	4