Anton J Prassl

List of Publications by Year
in descending order

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Version: 2024-02-01

24 papers	1,270 citations	430874 18 h-index	713466 21 g-index
25 all docs	25 docs citations	25 times ranked	962 citing authors

#	Article	IF	Citations
1	Predicting arrhythmia recurrence following catheter ablation for ventricular tachycardia using late gadolinium enhancement magnetic resonance imaging: Implications of varying scar ranges. Heart Rhythm, 2022, 19, 1604-1610.	0.7	4
2	A Framework for the generation of digital twins of cardiac electrophysiology from clinical 12-leads ECGs. Medical Image Analysis, 2021, 71, 102080.	11.6	72
3	Automated Framework for the Inclusion of a Hisâ€“Purkinje System in Cardiac Digital Twins of Ventricular Electrophysiology. Annals of Biomedical Engineering, 2021, 49, 3143-3153.	2.5	24
4	The openCARP simulation environment for cardiac electrophysiology. Computer Methods and Programs in Biomedicine, 2021, 208, 106223.	4.7	84
5	Influence of Electrode Placement on the Morphology of In Silico 12 Lead Electrocardiograms. , 2021, , .		1
6	Personalization of electro-mechanical models of the pressure-overloaded left ventricle: fitting of Windkessel-type afterload models. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190342.	3.4	23
7	Automating image-based mesh generation and manipulation tasks in cardiac modeling workflows using Meshtool. SoftwareX, 2020, 11, 100454.	2.6	41
8	A publicly available virtual cohort of four-chamber heart meshes for cardiac electro-mechanics simulations. PLoS ONE, 2020, 15, e0235145.	2.5	59
9	Simulating ventricular systolic motion in a four-chamber heart model with spatially varying robin boundary conditions to model the effect of the pericardium. Journal of Biomechanics, 2020, 101, 109645.	2.1	54
10	Universal ventricular coordinates: A generic framework for describing position within the heart and transferring data. Medical Image Analysis, 2018, 45, 83-93.	11.6	66
11	Assessment of wall stresses and mechanical heart power in the left ventricle: Finite element modeling versus Laplace analysis. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3147.	2.1	23
12	Arterial hypertension drives arrhythmia progression via specific structural remodeling in a porcine model of atrial fibrillation. Heart Rhythm, 2018, 15, 1328-1336.	0.7	19
13	Towards a Computational Framework for Modeling the Impact of Aortic Coarctations Upon Left Ventricular Load. Frontiers in Physiology, 2018, 9, 538.	2.8	24
14	Efficient computation of electrograms and ECGs in human whole heart simulations using a reaction-eikonal model. Journal of Computational Physics, 2017, 346, 191-211.	3.8	109
15	In-vitro experiments to characterize ventricular electromechanics. Current Directions in Biomedical Engineering, 2016, 2, 263-266.	0.4	0
16	Patient-specific modeling of left ventricular electromechanics as a driver for haemodynamic analysis. Europace, 2016, 18, iv121-iv129.	1.7	32
17	Anatomically accurate high resolution modeling of human whole heart electromechanics: A strongly scalable algebraic multigrid solver method for nonlinear deformation. Journal of Computational Physics, 2016, 305, 622-646.	3.8	115
18	Stochastic spontaneous calcium release events trigger premature ventricular complexes by overcoming electrotonic load. Cardiovascular Research, 2015, 107, 175-183.	3.8	41

#	Article	IF	Citations
19	An Efficient Finite Element Approach for Modeling Fibrotic Clefts in the Heart. IEEE Transactions on Biomedical Engineering, 2014, 61, 900-910.	4.2	56
20	A Macro Finite-Element Formulation for Cardiac Electrophysiology Simulations Using Hybrid Unstructured Grids. IEEE Transactions on Biomedical Engineering, 2011, 58, 1055-1065.	4.2	41
21	Imageâ€based models of cardiac structure in health and disease. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 489-506.	6.6	113
22	Automatically Generated, Anatomically Accurate Meshes for Cardiac Electrophysiology Problems. IEEE Transactions on Biomedical Engineering, 2009, 56, 1318-1330.	4.2	124
23	Generation of histo-anatomically representative models of the individual heart: tools and application. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 2257-2292.	3.4	135
24	openCARP: An Open Sustainable Framework for In-Silico Cardiac Electrophysiology Research. , 0, , .		8