

Jason Carson

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

229
citations

1040056

9
h-index

1281871

11
g-index

13
all docs

13
docs citations

13
times ranked

217
citing authors

#	ARTICLE	IF	CITATIONS
1	Automating fractional flow reserve (FFR) calculation from CT scans: A rapid workflow using unsupervised learning and computational fluid dynamics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, 38, e3559.	2.1	3
2	A framework for incorporating 3D hyperelastic vascular wall models in 1D blood flow simulations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1231-1249.	2.8	10
3	Personalising cardiovascular network models in pregnancy: A two-tiered parameter estimation approach. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 37, e3267.	2.1	13
4	Artificial intelligence approaches to predict coronary stenosis severity using non-invasive fractional flow reserve. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 1337-1350.	1.8	9
5	Mathematical Techniques for Circulatory Systems. , 2019, , 79-94.		2
6	Non-invasive coronary CT angiography-derived fractional flow reserve: A benchmark study comparing the diagnostic performance of four different computational methodologies. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3235.	2.1	35
7	Computational instantaneous wave-free ratio (IFR) for patient-specific coronary artery stenoses using 1D network models. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3255.	2.1	20
8	A data-driven model to study utero-ovarian blood flow physiology during pregnancy. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1155-1176.	2.8	15
9	A semi-active human digital twin model for detecting severity of carotid stenoses from head vibration – A coupled computational mechanics and computer vision method. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3180.	2.1	48
10	Influence of ageing on human body blood flow and heat transfer: A detailed computational modelling study. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e3120.	2.1	19
11	A novel method for non-invasively detecting the severity and location of aortic aneurysms. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1225-1242.	2.8	28
12	An implicit solver for 1D arterial network models. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2837.	2.1	27