Jason Carson

List of Publications by Year
in descending order

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