

Patient-Specific Modeling of Blood Flow and Pressure in

Annals of Biomedical Engineering

38, 3195-3209

DOI: 10.1007/s10439-010-0083-6

Citation Report

#	ARTICLE	IF	CITATIONS
1	Incorporating Autoregulatory Mechanisms of the Cardiovascular System in Three-Dimensional Finite Element Models of Arterial Blood Flow. <i>Annals of Biomedical Engineering</i> , 2010, 38, 2314-2330.	2.5	55
2	Coronary Computed Tomography Angiography. <i>Journal of the American College of Cardiology</i> , 2011, 58, 861-862.	2.8	2
3	Diagnosis of Ischemia-Causing Coronary Stenoses by Noninvasive Fractional Flow Reserve Computed From Coronary Computed Tomographic Angiograms. <i>Journal of the American College of Cardiology</i> , 2011, 58, 1989-1997.	2.8	1,058
4	Rationale and design of the DeFACTO (Determination of Fractional Flow Reserve by Anatomic) Tj ETQq1 1 0.784314 rgBT /Overlock 1011 301-309.	1.3	118
5	Computational biomechanics of the aortic root. <i>Aswan Heart Centre Science & Practice Series</i> , 2011, 2011, .	0.3	6
6	Virtual surgeries in patients with congenital heart disease: a multi-scale modelling test case. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4316-4330.	3.4	76
7	A comparison of outlet boundary treatments for prevention of backflow divergence with relevance to blood flow simulations. <i>Computational Mechanics</i> , 2011, 48, 277-291.	4.0	220
8	A framework for personalization of coronary flow computations during rest and hyperemia. , 2012, 2012, 6665-8.		28
9	A patient-specific reduced-order model for coronary circulation. , 2012, , .		39
10	Cardiac hybrid imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2012, 13, 51-60.	1.2	46
11	Value of Coronary Computed Tomography as a Prognostic Tool. <i>Clinical Cardiology</i> , 2012, 35, 467-473.	1.8	2
12	Patient-Specific Multiscale Modeling of Blood Flow for Coronary Artery Bypass Graft Surgery. <i>Annals of Biomedical Engineering</i> , 2012, 40, 2228-2242.	2.5	170
13	The Multi-Scale Modelling of Coronary Blood Flow. <i>Annals of Biomedical Engineering</i> , 2012, 40, 2399-2413.	2.5	73
14	GPU accelerated simulation of the human arterial circulation. , 2012, , .		3
15	Diagnostic Accuracy of Fractional Flow Reserve From Anatomic CT Angiography. <i>JAMA - Journal of the American Medical Association</i> , 2012, 308, 1237.	7.4	956
16	Effect of image quality on diagnostic accuracy of noninvasive fractional flow reserve: Results from the prospective multicenter international DISCOVER-FLOW study. <i>Journal of Cardiovascular Computed Tomography</i> , 2012, 6, 191-199.	1.3	87
17	Noninvasive Diagnosis of Ischemia-Causing Coronary Stenosis Using CT Angiography. <i>JACC: Cardiovascular Imaging</i> , 2012, 5, 1088-1096.	5.3	108
18	Usefulness of Noninvasive Fractional Flow Reserve Computed from Coronary Computed Tomographic Angiograms for Intermediate Stenoses Confirmed by Quantitative Coronary Angiography. <i>American Journal of Cardiology</i> , 2012, 110, 971-976.	1.6	85

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19	Integrating Physiologic and Anatomic Assessment of Coronary Artery Disease by Coronary Computed Tomographic Angiography. <i>Current Cardiovascular Imaging Reports</i> , 2012, 5, 301-309.	0.6	0
20	CT fractional flow reserve: the next level in non-invasive cardiac imaging. <i>Netherlands Heart Journal</i> , 2012, 20, 410-418.	0.8	15
21	Identifying and Redefining Stenosis by CT Angiography. <i>Cardiology Clinics</i> , 2012, 30, 57-67.	2.2	1
22	Fractional Flow Reserve: The Past, Present and Future. <i>Korean Circulation Journal</i> , 2012, 42, 441.	1.9	11
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24	Image-based modeling of hemodynamics in coronary artery aneurysms caused by Kawasaki disease. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 915-932.	2.8	83
25	The effect of aortic wall and aortic leaflet stiffening on coronary hemodynamic: a fluid-structure interaction study. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 923-936.	2.8	20
26	Modeling of Fractional Flow Reserve Based on Coronary CT Angiography. <i>Current Cardiology Reports</i> , 2013, 15, 336.	2.9	23
27	Myocardial perfusion distribution and coronary arterial pressure and flow signals: clinical relevance in relation to multiscale modeling, a review. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 1271-1286.	2.8	9
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29	Modeling Hemodynamics in Vascular Networks Using a Geometrical Multiscale Approach: Numerical Aspects. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1445-1458.	2.5	17
30	Coronary Computed Tomography Angiography for Stable Angina: Past, Present, and Future. <i>Canadian Journal of Cardiology</i> , 2013, 29, 266-274.	1.7	8
31	Rationale and design of the HeartFlowNXT (HeartFlow analysis of coronary blood flow using CT) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 20	1.3	64
32	Computational Fluid Dynamics Applied to Cardiac Computed Tomography for Noninvasive Quantification of Fractional Flow Reserve. <i>Journal of the American College of Cardiology</i> , 2013, 61, 2233-2241.	2.8	958
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34	Computed Fractional Flow Reserve (FFRCT) Derived from Coronary CT Angiography. <i>Journal of Cardiovascular Translational Research</i> , 2013, 6, 708-714.	2.4	98
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39	Risk assessment of atherosclerotic plaques based on global biomechanics. Medical Engineering and Physics, 2013, 35, 1290-1297.	1.7	7
40	3D Imaging of vascular networks for biophysical modeling of perfusion distribution within the heart. Journal of Biomechanics, 2013, 46, 229-239.	2.1	40
41	Imaging Heart Failure: Current and Future Applications. Canadian Journal of Cardiology, 2013, 29, 317-328.	1.7	26
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54	Graphics processing unit accelerated one-dimensional blood flow computation in the human arterial tree. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 1428-1455.	2.1	9

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