

Boyang Su

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

792
citations

516710

16
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

1055
citing authors

#	ARTICLE	IF	CITATIONS
1	Heart blood flow simulation: a perspective review. BioMedical Engineering OnLine, 2016, 15, 101.	2.7	78
2	Application of Patient-Specific Computational Fluid Dynamics in Coronary and Intra-Cardiac Flow Simulations: Challenges and Opportunities. Frontiers in Physiology, 2018, 9, 742.	2.8	77
3	The numerical analysis of non-Newtonian blood flow in human patient-specific left ventricle. Computer Methods and Programs in Biomedicine, 2016, 127, 232-247.	4.7	70
4	Perspective on CFD studies of coronary artery disease lesions and hemodynamics: A review. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 659-680.	2.1	69
5	Numerical simulation of patient-specific left ventricular model with both mitral and aortic valves by FSI approach. Computer Methods and Programs in Biomedicine, 2014, 113, 474-482.	4.7	59
6	Simplified Models of Non-Invasive Fractional Flow Reserve Based on CT Images. PLoS ONE, 2016, 11, e0153070.	2.5	44
7	Numerical Simulation of an Axial Blood Pump. Artificial Organs, 2007, 31, 560-570.	1.9	39
8	Hemodynamic analysis of patient-specific coronary artery tree. International Journal for Numerical Methods in Biomedical Engineering, 2015, 31, e02708.	2.1	38
9	Cardiac MRI based numerical modeling of left ventricular fluid dynamics with mitral valve incorporated. Journal of Biomechanics, 2016, 49, 1199-1205.	2.1	38
10	Novel Index of Maladaptive Myocardial Remodeling in Hypertension. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	32
11	Validation of an Axial Flow Blood Pump: Computational Fluid Dynamics Results Using Particle Image Velocimetry. Artificial Organs, 2012, 36, 359-367.	1.9	29
12	Design and finite element-based fatigue prediction of a new self-expandable percutaneous mitral valve stent. CAD Computer Aided Design, 2013, 45, 1153-1158.	2.7	27
13	Numerical investigation of blood flow in three-dimensional porcine left anterior descending artery with various stenoses. Computers in Biology and Medicine, 2014, 47, 130-138.	7.0	22
14	Evaluation of the Impeller Shroud Performance of an Axial Flow Ventricular Assist Device Using Computational Fluid Dynamics. Artificial Organs, 2010, 34, 745-759.	1.9	18
15	Effects of a carotid covered stent with a novel membrane design on the blood flow regime and hemodynamic parameters distribution at the carotid artery bifurcation. Medical and Biological Engineering and Computing, 2015, 53, 165-177.	2.8	18
16	Design considerations and quantitative assessment for the development of percutaneous mitral valve stent. Medical Engineering and Physics, 2014, 36, 882-888.	1.7	17
17	Numerical Modeling of Intraventricular Flow during Diastole after Implantation of BMHV. PLoS ONE, 2015, 10, e0126315.	2.5	17
18	In vitro measurements of velocity and wall shear stress in a novel sequential anastomotic graft design model under pulsatile flow conditions. Medical Engineering and Physics, 2014, 36, 1233-1245.	1.7	16

#	ARTICLE	IF	CITATIONS
19	Two-dimensional intraventricular flow pattern visualization using the image-based computational fluid dynamics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 492-507.	1.6	16
20	Generating wall shear stress for coronary artery in real-time using neural networks: Feasibility and initial results based on idealized models. <i>Computers in Biology and Medicine</i> , 2020, 126, 104038.	7.0	15
21	Advanced analyses of computed tomography coronary angiography can help discriminate ischemic lesions. <i>International Journal of Cardiology</i> , 2018, 267, 208-214.	1.7	14
22	Patient-specific blood flows and vortex formations in patients with hypertrophic cardiomyopathy using computational fluid dynamics. , 2014, , .		13
23	NUMERICAL STUDIES OF AN AXIAL FLOW BLOOD PUMP WITH DIFFERENT DIFFUSER DESIGNS. <i>Journal of Mechanics in Medicine and Biology</i> , 2013, 13, 1350029.	0.7	10
24	Effects of left atrium on intraventricular flow in numerical simulations. <i>Computers in Biology and Medicine</i> , 2019, 106, 46-53.	7.0	9
25	Sequential venous anastomosis design to enhance patency of arterio-venous grafts for hemodialysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 85-93.	1.6	6
26	Numerical study on the impeller of an axial flow blood pump. , 2011, , .		1