

# Boyang Su

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11886792/publications.pdf>

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	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
2	Effects of left atrium on intraventricular flow in numerical simulations. <i>Computers in Biology and Medicine</i> , 2019, 106, 46-53.	7.0	9
3	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
4	Application of Patient-Specific Computational Fluid Dynamics in Coronary and Intra-Cardiac Flow Simulations: Challenges and Opportunities. <i>Frontiers in Physiology</i> , 2018, 9, 742.	2.8	77
5	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
6	Novel Index of Maladaptive Myocardial Remodeling in Hypertension. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	2.6	32
7	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
8	Heart blood flow simulation: a perspective review. <i>BioMedical Engineering OnLine</i> , 2016, 15, 101.	2.7	78
9	The numerical analysis of non-Newtonian blood flow in human patient-specific left ventricle. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 127, 232-247.	4.7	70
10	Cardiac MRI based numerical modeling of left ventricular fluid dynamics with mitral valve incorporated. <i>Journal of Biomechanics</i> , 2016, 49, 1199-1205.	2.1	38
11	Simplified Models of Non-Invasive Fractional Flow Reserve Based on CT Images. <i>PLoS ONE</i> , 2016, 11, e0153070.	2.5	44
12	Hemodynamic analysis of patient-specific coronary artery tree. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015, 31, e02708.	2.1	38
13	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. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 165-177.	2.8	18
14	Numerical Modeling of Intraventricular Flow during Diastole after Implantation of BMHV. <i>PLoS ONE</i> , 2015, 10, e0126315.	2.5	17
15	Perspective on CFD studies of coronary artery disease lesions and hemodynamics: A review. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014, 30, 659-680.	2.1	69
16	In vitro measurements of velocity and wall shear stress in a novel sequential anastomotic graft design model under pulsatile flow conditions. <i>Medical Engineering and Physics</i> , 2014, 36, 1233-1245.	1.7	16
17	Numerical simulation of patient-specific left ventricular model with both mitral and aortic valves by FSI approach. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 113, 474-482.	4.7	59
18	Numerical investigation of blood flow in three-dimensional porcine left anterior descending artery with various stenoses. <i>Computers in Biology and Medicine</i> , 2014, 47, 130-138.	7.0	22

#	ARTICLE	IF	CITATIONS
19	Design considerations and quantitative assessment for the development of percutaneous mitral valve stent. <i>Medical Engineering and Physics</i> , 2014, 36, 882-888.	1.7	17
20	Patient-specific blood flows and vortex formations in patients with hypertrophic cardiomyopathy using computational fluid dynamics. , 2014, , .		13
21	Design and finite element-based fatigue prediction of a new self-expandable percutaneous mitral valve stent. <i>CAD Computer Aided Design</i> , 2013, 45, 1153-1158.	2.7	27
22	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
23	Validation of an Axial Flow Blood Pump: Computational Fluid Dynamics Results Using Particle Image Velocimetry. <i>Artificial Organs</i> , 2012, 36, 359-367.	1.9	29
24	Numerical study on the impeller of an axial flow blood pump. , 2011, , .		1
25	Evaluation of the Impeller Shroud Performance of an Axial Flow Ventricular Assist Device Using Computational Fluid Dynamics. <i>Artificial Organs</i> , 2010, 34, 745-759.	1.9	18
26	Numerical Simulation of an Axial Blood Pump. <i>Artificial Organs</i> , 2007, 31, 560-570.	1.9	39