Youjun Liu

List of Publications by Year
in descending order

46 papers	331 citations	1040056 9 h-index	996975 15 g-index
46 all docs	46 docs citations	46 times ranked	204 citing authors

#	Article	IF	Citations
1	Prediction of 3D Cardiovascular hemodynamics before and after coronary artery bypass surgery via deep learning. Communications Biology, 2021, 4, 99.	4.4	45
2	Hemodynamics of the string phenomenon in the internal thoracic artery grafted to the left anterior descending artery with moderate stenosis. Journal of Biomechanics, 2016, 49, 983-991.	2.1	42
3	Hemodynamic study on the different therapeutic effects of SSWD resurfacing surgery on patients with pulsatile tinnitus. Computer Methods and Programs in Biomedicine, 2020, 190, 105373.	4.7	22
4	Modelâ€based analysis of the sensitivities and diagnostic implications of FFR and CFR under various pathological conditions. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3257.	2.1	20
5	A patient-specific modelling method of blood circulatory system for the numerical simulation of enhanced external counterpulsation. Journal of Biomechanics, 2020, 111, 110002.	2.1	17
6	Comparison of Instantaneous Wave-Free Ratio (iFR) and Fractional Flow Reserve (FFR) with respect to Their Sensitivities to Cardiovascular Factors: A Computational Model-Based Study. Journal of Interventional Cardiology, 2020, 2020, 1-12.	1.2	14
7	Orthophosphate and alkaline phosphatase induced the formation of apatite with different multilayered structures and mineralization balance. Nanoscale, 2022, 14, 1814-1825.	5.6	13
8	Hemodynamic effects of enhanced external counterpulsation on cerebral arteries: a multiscale study. BioMedical Engineering OnLine, 2019, 18, 91.	2.7	12
9	The numerical study on specialized treatment strategies of enhanced external counterpulsation for cardiovascular and cerebrovascular disease. Medical and Biological Engineering and Computing, 2018, 56, 1959-1971.	2.8	11
10	A high splicing accuracy solution to reconstruction of cross-cut shredded text document problem. Multimedia Tools and Applications, 2018, 77, 19281-19300.	3.9	10
11	Long-term hemodynamic mechanism of enhanced external counterpulsation in the treatment of coronary heart disease: a geometric multiscale simulation. Medical and Biological Engineering and Computing, 2019, 57, 2417-2433.	2.8	10
12	Hemodynamic Mechanism of Coronary Artery Aneurysm High Occurrence on Right Coronary Artery. Frontiers in Physiology, 2020, 11, 323.	2.8	10
13	The combined effects of dynamization time and degree on bone healing. Journal of Orthopaedic Research, 2022, 40, 634-643.	2.3	10
14	The Hemodynamic Mechanism of FFR-Guided Coronary Artery Bypass Grafting. Frontiers in Physiology, 2021, 12, 503687.	2.8	9
15	Numerical study of hemodynamics comparison between small and large femoral bypass grafts. Communications in Numerical Methods in Engineering, 2007, 24, 1067-1078.	1.3	8
16	Hemodynamic analysis of sequential graft from right coronary system to left coronary system. BioMedical Engineering OnLine, 2016, 15, 132.	2.7	8
17	The influence of hemodynamics on graft patency prediction model based on support vector machine. Journal of Biomechanics, 2020, 98, 109426.	2.1	8
18	On the relationship between competitive flow and FFT analysis of the flow waves in the left internal mammary artery graft in the process of CABG. BioMedical Engineering OnLine, 2016, 15, 129.	2.7	7

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19	HEMODYNAMIC COMPARISON BETWEEN NORMAL GRAFT AND Y-TYPE GRAFT IN CORONARY ARTERY BYPASS GRAFTING: A NUMERICAL STUDY USING 0D/3D COUPLING METHOD. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550053.	0.7	6
20	Physical and Chemical Characterization of Biomineralized Collagen with Different Microstructures. Journal of Functional Biomaterials, 2022, 13, 57.	4.4	6
21	IMPACT OF COMPETITIVE FLOW ON HEMODYNAMICS OF LIMA-LAD GRAFTING WITH DIFFERENT STENOSIS: A NUMERICAL STUDY. Journal of Mechanics in Medicine and Biology, 2017, 17, 1750040.	0.7	5
22	Enhancing the Efficiency of Distraction Osteogenesis through Rate-Varying Distraction: A Computational Study. International Journal of Molecular Sciences, 2021, 22, 11734.	4.1	5
23	In vivo and in silico monitoring bone regeneration during distraction osteogenesis of the mouse femur. Computer Methods and Programs in Biomedicine, 2022, 216, 106679.	4.7	5
24	CCD Signal Processing Based on Correlated Double Sampling. , 2011, , .		4
25	A Numerical Model for Simulating the Hemodynamic Effects of Enhanced External Counterpulsation on Coronary Arteries. Frontiers in Physiology, 2021, 12, 656224.	2.8	4
26	Design of Three-Dimensional Interactive Visualization System Based on Force Feedback Device. , 2008, , .		3
27	Model-based evaluation of local hemodynamic effects of enhanced external counterpulsation. Computer Methods and Programs in Biomedicine, 2022, 214, 106540.	4.7	3
28	Experimental and Numerical Analysis in Vitro with a Water-Cooled Microwave Ablation Antenna. , 2008, , .		2
29	Design of a TDI CCD data acquisition system. , 2012, , .		2
30	Impact of Arrhythmia on Myocardial Perfusion: A Computational Model-Based Study. Mathematics, 2021, 9, 2128.	2.2	2
31	Accurate Calculation of FFR Based on a Physics-Driven Fluidâ€Structure Interaction Model. Frontiers in Physiology, 2022, 13, 861446.	2.8	2
32	Numerical Simulation on Microwave Ablation with a Water-Cooled Antenna. , 2007, , .		1
33	Hemodynamic based cardiovascular surgical planning system. , 2010, , .		1
34	Hemodynamics simulation of patient-specific surgical planning for Tetralogy of Fallot. , 2010, , .		1
35	Real-time location of surgical incisions in cataract phacoemulsification. Multimedia Tools and Applications, 2020, 79, 30311-30327.	3.9	1
36	Machine Learning Approaches-Driven for Mortality Prediction for Patients Undergoing Craniotomy in ICU. Brain Injury, 2021, 35, 1658-1664.	1.2	1

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37	Effect of the Coronary Arterial Diameter Derived From Coronary Computed Tomography Angiography on Fractional Flow Reserve. Journal of Computer Assisted Tomography, 2022, 46, 397-405.	0.9	1
38	Experimental Study on the Effects of Branching Vessels on Temperature Distribution in Microwave Ablation Therapy. , 2007, , .		0
39	Hemodynamics Simulation of Partly Stented Aortic Arch Aneurysm. , 2007, , .		0
40	A Rapid 3D Finite Element Modeling Pipeline Based on Dental Images. , 2008, , .		0
41	Numerical Analysis in the Water Flowing Influence on the Temperature Distribution with a Water-Cooled Microwave Ablation Antenna. , 2008, , .		0
42	Linking Image Segmentation to 3D Mesh Generation Based on Medical Images. , 2009, , .		0
43	The 3D Visualization of Dental Panoramic X-Ray Images. , 2009, , .		0
44	SAR distribution of microwave antenna for atrial fibrillation catheter ablation. , 2012, , .		0
45	Effect of the ratio of vessel-specific volume to fractional myocardial mass on fractional flow reserve. Experimental Biology and Medicine, 2022, 247, 1630-1638.	2.4	0
46	Editorial: Computational Biomechanics of the Heart and Vasculature With Potential Clinical and Surgical Applications. Frontiers in Physiology, 2022, 13, 872774.	2.8	0