

Jun-Mei Zhang

List of Publications by Year in descending order

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54
papers

740
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623188

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times ranked

992
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.3	77
2	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.	1.0	69
3	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.	2.6	59
4	Simplified Models of Non-Invasive Fractional Flow Reserve Based on CT Images. <i>PLoS ONE</i> , 2016, 11, e0153070.	1.1	44
5	Indoor PM2.5 and its chemical composition during a heavy haze "fog" episode at Jinan, China. <i>Atmospheric Environment</i> , 2014, 99, 641-649.	1.9	38
6	Hemodynamic analysis of patient-specific coronary artery tree. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015, 31, e02708.	1.0	38
7	Cardiac MRI based numerical modeling of left ventricular fluid dynamics with mitral valve incorporated. <i>Journal of Biomechanics</i> , 2016, 49, 1199-1205.	0.9	38
8	Numerical investigation and identification of susceptible sites of atherosclerotic lesion formation in a complete coronary artery bypass model. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 689-699.	1.6	31
9	Validation of numerical simulation with PIV measurements for two anastomosis models. <i>Medical Engineering and Physics</i> , 2008, 30, 226-247.	0.8	26
10	Standard and emerging CMR methods for mitral regurgitation quantification. <i>International Journal of Cardiology</i> , 2021, 331, 316-321.	0.8	24
11	Automatic Localization of the Left Ventricle from Cardiac Cine Magnetic Resonance Imaging: A New Spectrum-Based Computer-Aided Tool. <i>PLoS ONE</i> , 2014, 9, e92382.	1.1	22
12	Multicenter Consistency Assessment of Valvular Flow Quantification With Automated Valve Tracking in 4D Flow CMR. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1354-1366.	2.3	21
13	Numerical Simulation and Clinical Implications of Stenosis in Coronary Blood Flow. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	19
14	Modeling and Simulations of Flow Pattern, Chlorine Concentration, and Mean Age Distributions in Potable Water Service Reservoir of Singapore. <i>Journal of Environmental Engineering, ASCE</i> , 2011, 137, 575-584.	0.7	17
15	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.	3.9	15
16	Shape effect on mixing and age distributions in service reservoirs. <i>Journal - American Water Works Association</i> , 2014, 106, E481.	0.2	14
17	Advanced analyses of computed tomography coronary angiography can help discriminate ischemic lesions. <i>International Journal of Cardiology</i> , 2018, 267, 208-214.	0.8	14
18	Left Ventricular Wall Stress Is Sensitive Marker of Hypertrophic Cardiomyopathy With Preserved Ejection Fraction. <i>Frontiers in Physiology</i> , 2018, 9, 250.	1.3	14

#	ARTICLE	IF	CITATIONS
19	Effects of Baffle Configurations on the Performance of a Potable Water Service Reservoir. Journal of Environmental Engineering, ASCE, 2012, 138, 578-587.	0.7	13
20	Patient-specific blood flows and vortex formations in patients with hypertrophic cardiomyopathy using computational fluid dynamics. , 2014, , .		13
21	Numerical study of a complete anastomosis model for the coronary artery bypass. International Communications in Heat and Mass Transfer, 2005, 32, 473-482.	2.9	12
22	Fast Marching and Rungeâ€“Kutta Based Method for Centreline Extraction of Right Coronary Artery in Human Patients. Cardiovascular Engineering and Technology, 2016, 7, 159-169.	0.7	11
23	Numerical Investigation of Lateral Jets over a Body of Revolution in Supersonic Cross-flow. Journal of Propulsion and Power, 2012, 28, 33-46.	1.3	10
24	Numerical Simulation and Assessment of the Effects of Operation and Baffling on a Potable Water Service Reservoir. Journal of Environmental Engineering, ASCE, 2013, 139, 341-348.	0.7	9
25	Coronary artery segmentation via Hessian filter and curve-skeleton extraction. , 2014, , .		9
26	Analysis of three-dimensional endocardial and epicardial strains from cardiac magnetic resonance in healthy subjects and patients with hypertrophic cardiomyopathy. Medical and Biological Engineering and Computing, 2018, 56, 159-172.	1.6	9
27	Effects of left atrium on intraventricular flow in numerical simulations. Computers in Biology and Medicine, 2019, 106, 46-53.	3.9	9
28	Passive and Active Methods for Enhancing Water Quality of Service Reservoir. Journal of Hydraulic Engineering, 2013, 139, 745-753.	0.7	8
29	Diagnostic Performance of Fractional Flow Reserve From CT Coronary Angiography With Analytical Method. Frontiers in Cardiovascular Medicine, 2021, 8, 739633.	1.1	7
30	Multidisciplinary Design of S-Shaped Intake. , 2008, , .		6
31	Quantification of effects of mean blood pressure and left ventricular mass on noninvasive fast fractional flow reserve. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H360-H369.	1.5	6
32	Computed Tomography Coronary Angiography and Computational Fluid Dynamics Based Fractional Flow Reserve Before and After Percutaneous Coronary Intervention. Frontiers in Bioengineering and Biotechnology, 2021, 9, 739667.	2.0	5
33	Performance of Coflow Jet Airfoils with Conformal Slot Geometries. Journal of Aircraft, 2011, 48, 1107-1112.	1.7	4
34	Quantification of coronary artery Stenosis by Area Stenosis from cardiac CT angiography. , 2015, 2015, 695-8.		4
35	Reconstructing patient-specific cardiac models from contours via Delaunay triangulation and graph-cuts. , 2013, 2013, 2976-9.		3
36	Numerical study on the steady flow characteristics of proximal anastomotic models. International Communications in Heat and Mass Transfer, 2003, 30, 945-954.	2.9	2

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37	Area stenosis associated with non-invasive fractional flow reserve obtained from coronary CT images. , 2013, 2013, 3865-8.		2
38	FSI simulation of intra-ventricular flow in patient-specific ventricular model with both mitral and aortic valves. , 2013, 2013, 703-6.		2
39	Variational Reconstruction of Left Cardiac Structure from CMR Images. PLoS ONE, 2015, 10, e0145570.	1.1	2
40	Stenosis detection and quantification on cardiac CTCA using panoramic MIP of coronary arteries. , 2017, 2017, 4191-4194.		2
41	Elevated Right Atrial Pressure Associated with Alteration of Left Ventricular Contractility and Ventricular-Arterial Coupling in Pulmonary Artery Hypertension*. , 2019, 2019, 820-823.		2
42	Reference Ranges for Left Ventricular Curvedness and Curvedness-Based Functional Indices Using Cardiovascular Magnetic Resonance in Healthy Asian Subjects. Scientific Reports, 2020, 10, 8465.	1.6	2
43	Effects of Stenosis on the Porcine Left Anterior Descending Arterial Tree. , 2013, 2013, 3869-72.		1
44	Evaluation of atrioventricular junction velocity by orthogonal polynomial fitting from cine magnetic resonance imaging and comparison with tissue Doppler Echocardiography. , 2014, , .		1
45	Characterization and quantification of curvature using independent coordinates method in the human left ventricle by magnetic resonance imaging to identify the morphology subtype of hypertrophy cardiomyopathy. , 2014, 2014, 5619-22.		1
46	Graph-cuts based reconstructing patient specific right ventricle: First human study. , 2014, 2014, 6770-3.		1
47	Correcting motion in multiplanar cardiac magnetic resonance images. BioMedical Engineering OnLine, 2016, 15, 93.	1.3	1
48	Automatic Segmentation of Coronary Artery Lumen via Anisotropic Graph-cuts*. , 2019, 2019, 4871-4874.		1
49	Joint aerodynamics and electromagnetics design of S-shaped intake using proper orthogonal decomposition method. , 2008, , .		0
50	Similarity Study of the Wall-Jet-Flow Outer Region. , 2009, , .		0
51	Left ventricular regional shape dynamics analysis by three-dimensional cardiac magnetic resonance imaging associated with left ventricular function in first-time myocardial infarction patients. , 2014, 2014, 5113-6.		0
52	Automatic localization of mitral valve orifice in three-dimensional left cardiac model. , 2015, 2015, 6540-3.		0
53	Attenuation of 3-Dimensional Epicardial Strain from Cardiac Magnetic Resonance Associated with Obstructive Hypertrophic Cardiomyopathy. IFMBE Proceedings, 2016, , 287-290.	0.2	0
54	Noninvasive Hemodynamic Assessment of the Significance of Coronary Artery Disease. , 2019, , 283-302.		0