

Yun-Long Huo

List of Publications by Year in descending order

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94
papers

1,987
citations

236833

25
h-index

289141

40
g-index

99
all docs

99
docs citations

99
times ranked

1725
citing authors

#	ARTICLE	IF	CITATIONS
1	Intraspecific scaling laws of vascular trees. <i>Journal of the Royal Society Interface</i> , 2012, 9, 190-200.	1.5	117
2	Flow patterns in three-dimensional porcine epicardial coronary arterial tree. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H2959-H2970.	1.5	88
3	A Scaling Law of Vascular Volume. <i>Biophysical Journal</i> , 2009, 96, 347-353.	0.2	85
4	A hybrid one-dimensional/Womersley model of pulsatile blood flow in the entire coronary arterial tree. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H2623-H2633.	1.5	76
5	The Flow Field along the Entire Length of Mouse Aorta and Primary Branches. <i>Annals of Biomedical Engineering</i> , 2008, 36, 685-699.	1.3	76
6	Pulsatile blood flow in the entire coronary arterial tree: theory and experiment. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H1074-H1087.	1.5	73
7	A validated predictive model of coronary fractional flow reserve. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1325-1338.	1.5	73
8	Accuracy of computational pressure-fluid dynamics applied to coronary angiography to derive fractional flow reserve: FLASH FFR. <i>Cardiovascular Research</i> , 2020, 116, 1349-1356.	1.8	68
9	Effects of vessel compliance on flow pattern in porcine epicardial right coronary arterial tree. <i>Journal of Biomechanics</i> , 2009, 42, 594-602.	0.9	65
10	Which diameter and angle rule provides optimal flow patterns in a coronary bifurcation?. <i>Journal of Biomechanics</i> , 2012, 45, 1273-1279.	0.9	63
11	Optimal diameter of diseased bifurcation segment: a practical rule for percutaneous coronary intervention. <i>EuroIntervention</i> , 2012, 7, 1310-1316.	1.4	56
12	Diameter asymmetry of porcine coronary arterial trees: structural and functional implications. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H714-H723.	1.5	48
13	Simplified Models of Non-Invasive Fractional Flow Reserve Based on CT Images. <i>PLoS ONE</i> , 2016, 11, e0153070.	1.1	44
14	Coronary Angiography-Derived Index of Microvascular Resistance. <i>Frontiers in Physiology</i> , 2020, 11, 605356.	1.3	44
15	The Scaling of Blood Flow Resistance: From a Single Vessel to the Entire Distal Tree. <i>Biophysical Journal</i> , 2009, 96, 339-346.	0.2	42
16	Biophysical Model of the Spatial Heterogeneity of Myocardial Flow. <i>Biophysical Journal</i> , 2009, 96, 4035-4043.	0.2	42
17	Capillary Perfusion and Wall Shear Stress Are Restored in the Coronary Circulation of Hypertrophic Right Ventricle. <i>Circulation Research</i> , 2007, 100, 273-283.	2.0	41
18	Prognostic impact of coronary microvascular dysfunction in patients with myocardial infarction with non-obstructive coronary arteries. <i>European Journal of Internal Medicine</i> , 2021, 92, 79-85.	1.0	40

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19	Biaxial vasoactivity of porcine coronary artery. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H2058-H2063.	1.5	38
20	Microstructural constitutive model of active coronary media. <i>Biomaterials</i> , 2013, 34, 7575-7583.	5.7	38
21	Hemodynamic analysis of patient-specific coronary artery tree. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015, 31, e02708.	1.0	38
22	Morphometric and hemodynamic analysis of atherosclerotic progression in human carotid artery bifurcations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H639-H647.	1.5	38
23	Scaling laws of coronary circulation in health and disease. <i>Journal of Biomechanics</i> , 2016, 49, 2531-2539.	0.9	29
24	Hemodynamics of left internal mammary artery bypass graft: Effect of anastomotic geometry, coronary artery stenosis, and postoperative time. <i>Journal of Biomechanics</i> , 2016, 49, 645-652.	0.9	29
25	A novel system for the reconstruction of a coronary artery lumen profile in real time: a preclinical validation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H485-H492.	1.5	27
26	Structure-function relation in the coronary artery tree: from fluid dynamics to arterial bifurcations. <i>EuroIntervention</i> , 2010, 6, J10-J15.	1.4	27
27	Effect of compliance and hematocrit on wall shear stress in a model of the entire coronary arterial tree. <i>Journal of Applied Physiology</i> , 2009, 107, 500-505.	1.2	26
28	Two-layer model of coronary artery vasoactivity. <i>Journal of Applied Physiology</i> , 2013, 114, 1451-1459.	1.2	24
29	Three-dimensional Marangoni convection in electrostatically positioned droplets under microgravity. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 3533-3547.	2.5	22
30	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.	3.9	22
31	Hemodynamics in Coronary Arterial Tree of Serial Stenoses. <i>PLoS ONE</i> , 2016, 11, e0163715.	1.1	21
32	CT-based Diagnosis of Diffuse Coronary Artery Disease on the Basis of Scaling Power Laws. <i>Radiology</i> , 2013, 268, 694-701.	3.6	20
33	Growth, ageing and scaling laws of coronary arterial trees. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150830.	1.5	20
34	Mild Anastomotic Stenosis in Patient-Specific CABG Model May Enhance Graft Patency: A New Hypothesis. <i>PLoS ONE</i> , 2013, 8, e73769.	1.1	20
35	Compensatory remodeling of coronary microvasculature maintains shear stress in porcine left-ventricular hypertrophy. <i>Journal of Hypertension</i> , 2012, 30, 608-616.	0.3	19
36	Numerical Simulation and Clinical Implications of Stenosis in Coronary Blood Flow. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	19

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37	Morphometric, Hemodynamic, and Multi-Omics Analyses in Heart Failure Rats with Preserved Ejection Fraction. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3362.	1.8	18
38	The Structure-function remodeling in rabbit hearts of myocardial infarction. <i>Physiological Reports</i> , 2017, 5, e13311.	0.7	14
39	Morphometry and hemodynamics of coronary artery aneurysms caused by atherosclerosis. <i>Atherosclerosis</i> , 2019, 284, 187-193.	0.4	14
40	Calcium waves initiating from the anomalous subdiffusive calcium sparks. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130934.	1.5	13
41	Bifurcation Asymmetry of Small Coronary Arteries in Juvenile and Adult Mice. <i>Frontiers in Physiology</i> , 2018, 9, 519.	1.3	13
42	IVUS Validation of Patient Coronary Artery Lumen Area Obtained from CT Images. <i>PLoS ONE</i> , 2014, 9, e86949.	1.1	13
43	Integrated Modeling of Microwave Food Processing and Comparison with Experimental Measurements. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2004, 39, 153-165.	0.4	12
44	Cyclic Stretch Induces Vascular Smooth Muscle Cells to Secrete Connective Tissue Growth Factor and Promote Endothelial Progenitor Cell Differentiation and Angiogenesis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 606989.	1.8	12
45	Surface Deformation and Convection in Electrostatically-Positioned Droplets of Immiscible Liquids Under Microgravity. <i>Journal of Heat Transfer</i> , 2006, 128, 520-529.	1.2	11
46	Passive and Active Triaxial Wall Mechanics in a Two-Layer Model of Porcine Coronary Artery. <i>Scientific Reports</i> , 2017, 7, 13911.	1.6	11
47	Fluid-Structure Interaction (FSI) Modeling in the Cardiovascular System. , 2010, , 141-157.		11
48	Effect of blood pressure on vascular hemodynamics in acute tachycardia. <i>Journal of Applied Physiology</i> , 2010, 109, 1619-1627.	1.2	10
49	A comparison of postoperative morphometric and hemodynamic changes between saphenous vein and left internal mammary artery grafts. <i>Physiological Reports</i> , 2017, 5, e13487.	0.7	10
50	Hepatic Hemangiomas Alter Morphometry and Impair Hemodynamics of the Abdominal Aorta and Primary Branches From Computer Simulations. <i>Frontiers in Physiology</i> , 2018, 9, 334.	1.3	10
51	Cardiac wall mechanics analysis in hypertension-induced heart failure rats with preserved ejection fraction. <i>Journal of Biomechanics</i> , 2020, 98, 109428.	0.9	10
52	Speckle tracking echocardiography could detect the difference of pressure overload-induced myocardial remodelling between young and adult rats. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190808.	1.5	10
53	Interplay of Proximal Flow Confluence and Distal Flow Divergence in Patient-Specific Vertebrobasilar System. <i>PLoS ONE</i> , 2016, 11, e0159836.	1.1	10
54	A novel stochastic reaction-diffusion model of Ca ²⁺ blink in cardiac myocytes. <i>Science Bulletin</i> , 2017, 62, 5-8.	4.3	9

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55	Inhalation of Ultrafine Zinc Particles Impaired Cardiovascular Functions in Hypertension-Induced Heart Failure Rats With Preserved Ejection Fraction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 13.	2.0	9
56	Circular RNA UVRAG Mediated by Alternative Splicing Factor NOVA1 Regulates Adhesion and Migration of Vascular Smooth Muscle Cells. <i>Genes</i> , 2021, 12, 418.	1.0	9
57	Compensatory enlargement of Ossabaw miniature swine coronary arteries in diffuse atherosclerosis. <i>IJC Heart and Vasculature</i> , 2015, 6, 4-11.	0.6	8
58	Remodeling of left circumflex coronary arterial tree in pacing-induced heart failure. <i>Journal of Applied Physiology</i> , 2015, 119, 404-411.	1.2	8
59	Morphometry and hemodynamics of posterior communicating artery aneurysms: Ruptured versus unruptured. <i>Journal of Biomechanics</i> , 2018, 76, 35-44.	0.9	8
60	Vertebral Artery Stenoses Contribute to the Development of Diffuse Plaques in the Basilar Artery. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 168.	2.0	8
61	Boundary/Finite Element Modeling of Three-Dimensional Electromagnetic Heating During Microwave Food Processing. <i>Journal of Heat Transfer</i> , 2005, 127, 1159-1166.	1.2	7
62	Conductance catheter measurements of lumen area of stenotic coronary arteries: theory and experiment. <i>Journal of Applied Physiology</i> , 2011, 111, 758-765.	1.2	7
63	Acute Tachycardia Increases Aortic Distensibility, but Reduces Total Arterial Compliance Up to a Moderate Heart Rate. <i>Frontiers in Physiology</i> , 2018, 9, 1634.	1.3	7
64	Sickle Cell Anemia Mediates Carotid Artery Expansive Remodeling That Can Be Prevented by Inhibition of JNK (c-Jun N-Terminal Kinase). <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1220-1230.	1.1	7
65	New method to measure coronary velocity and coronary flow reserve. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H21-H28.	1.5	6
66	Keystone species can be identified based on motif centrality. <i>Ecological Indicators</i> , 2020, 110, 105877.	2.6	6
67	Coronary Angiography-Derived Diastolic Pressure Ratio. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 596401.	2.0	6
68	Computed tomography-based diagnosis of diffuse compensatory enlargement of coronary arteries using scaling power laws. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20121015.	1.5	5
69	Intraspecific scaling laws are preserved in ventricular hypertrophy but not in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H1108-H1117.	1.5	5
70	Effects of rogue ryanodine receptors on Ca ²⁺ sparks in cardiac myocytes. <i>Royal Society Open Science</i> , 2018, 5, 171462.	1.1	5
71	Short-Term Inhalation of Ultrafine Zinc Particles Could Alleviate Cardiac Dysfunctions in Rats of Myocardial Infarction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 646533.	2.0	5
72	A Magnetic Device to Eliminate Endograft Migration: Theory and Experiment. <i>Annals of Biomedical Engineering</i> , 2008, 36, 57-65.	1.3	4

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73	The Interplay of Rogue and Clustered Ryanodine Receptors Regulates Ca ²⁺ Waves in Cardiac Myocytes. <i>Frontiers in Physiology</i> , 2018, 9, 393.	1.3	4
74	A comparison of passive and active wall mechanics between elastic and muscular arteries of juvenile and adult rats. <i>Journal of Biomechanics</i> , 2021, 126, 110642.	0.9	4
75	Morphometric and hemodynamic parameter dataset for coronary artery aneurysms caused by atherosclerosis. <i>Data in Brief</i> , 2019, 25, 104293.	0.5	3
76	Mechanical difference of left ventricle between rabbits of myocardial infarction and hypertrophy. <i>Journal of Biomechanics</i> , 2020, 111, 110021.	0.9	3
77	Age-dependent characterization of carotid and cerebral artery geometries in a transgenic mouse model of sickle cell anemia using ultrasound and microcomputed tomography. <i>Blood Cells, Molecules, and Diseases</i> , 2020, 85, 102486.	0.6	3
78	Intra- and inter-specific scaling laws of plants and animals. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 321-330.	1.5	3
79	Coronary <sc>angiography–derived</sc> contrast fractional flow reserve. <i>Catheterization and Cardiovascular Interventions</i> , 2022, 99, 763-771.	0.7	3
80	Platelet-derived microvesicles regulate vascular smooth muscle cell energy metabolism via PRKAA after intimal injury. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	3
81	Area stenosis associated with non-invasive fractional flow reserve obtained from coronary CT images. , 2013, 2013, 3865-8.		2
82	Flow velocity is relatively uniform in the coronary sinusal venous tree: structure-function relation. <i>Journal of Applied Physiology</i> , 2017, 122, 60-67.	1.2	2
83	Computation and Visualizaion of 3-D Marangoni and Magnetically-Driven Flows in Droplets. , 2003, , .		2
84	COMPUTER VISUALIZATION OF FLUID CIRCULATION IN ANNULI OF HEATED ROTATING CYLINDERS OF LOW PRANDTL NUMBER FLUIDS. <i>International Journal of Computational Engineering Science</i> , 2004, 05, 357-378.	0.1	1
85	Validation of 3-D Electromagnetic-Thermal Model for Microwave Food Processing. , 2005, , 781.		1
86	Governing Equations of Blood Flow and Respective Numerical Methods. , 2010, , 121-139.		1
87	Effects of Stenosis on the Porcine Left Anterior Descending Arterial Tree. , 2013, 2013, 3869-72.		1
88	Boundary/Finite Edge Element Modeling of 3-D Microwave Thermal Food Processing. , 2004, , .		1
89	Long-Term Inhalation of Ultrafine Zinc Particles Deteriorated Cardiac and Cardiovascular Functions in Rats of Myocardial Infarction. <i>Frontiers in Physiology</i> , 0, 13, .	1.3	1
90	Electromagnetic-Thermal Responses of Tissues During Microwave Hyperthermia. , 2005, , 619.		0

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91	Stability of the Droplet in Magnetic Levitation Mechanism. , 2006, , 517.		0
92	Structureâ€“Function Relations in the Coronary Vasculature. , 2016, , 175-202.		0
93	Coronary Blood Flow Is Increased in RV Hypertrophy, but the Shape of Normalized Waves Is Preserved Throughout the Arterial Tree. Frontiers in Physiology, 2018, 9, 675.	1.3	0
94	Hemodynamics Simulation in the Left Anterior Descending Coronary Artery Tree. , 2019, , 257-281.		0