## Ghassan S Kassab

List of Publications by Year in descending order

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times ranked citing authors

110387

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#	Article	IF	CITATIONS
1	Real time reduced order model for angiography fractional flow reserve. Computer Methods and Programs in Biomedicine, 2022, 216, 106674.	4.7	4
2	A Simulation Study of the Effects of Number and Location of MitraClips on Mitral Regurgitation. , 2022, 1, 100015.		5
3	Pulmonary Visceral Pleura Biomaterial: Elastin- and Collagen-Based Extracellular Matrix. Frontiers in Bioengineering and Biotechnology, 2022, 10, 796076.	4.1	4
4	Biomechanical constitutive modeling of the gastrointestinal tissues: A systematic review. Materials and Design, 2022, 217, 110576.	7.0	4
5	Aortic Leaflet Stresses Are Substantially Lower Using Pulmonary Visceral Pleura Than Pericardial Tissue. Frontiers in Bioengineering and Biotechnology, 2022, 10, 869095.	4.1	1
6	Inversion of Left Atrial Appendage Will Cause Compressive Stresses in the Tissue: Simulation Study of Potential Therapy. Journal of Personalized Medicine, 2022, 12, 883.	2.5	5
7	Definitions and Standardized Endpoints for Treatment of Coronary Bifurcations. Journal of the American College of Cardiology, 2022, 80, 63-88.	2.8	25
8	Intra- and inter-specific scaling laws of plants and animals. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 321-330.	3.4	3
9	Local fluid dynamics in patients with bifurcated coronary lesions undergoing percutaneous coronary interventions. Cardiology Journal, 2021, 28, 321-329.	1.2	18
10	Study of Coronary Atherosclerosis Using Blood Residence Time. Frontiers in Physiology, 2021, 12, 625420.	2.8	10
11	Novel Biomaterial for Artery Patch in Swine Model With High-Fat Diet. Frontiers in Bioengineering and Biotechnology, 2021, 9, 679466.	4.1	2
12	Efficacy and Mechanisms of Gastric Volume-Restriction Bariatric Devices. Frontiers in Physiology, 2021, 12, 761481.	2.8	5
13	Mitral Valve Atlas for Artificial Intelligence Predictions of MitraClip Intervention Outcomes. Frontiers in Cardiovascular Medicine, 2021, 8, 759675.	2.4	7
14	Cerebrovascular miRNAs correlate with the clearance of Aβ through perivascular route in younger 3xTgâ€AD mice. Brain Pathology, 2020, 30, 92-105.	4.1	9
15	Homologous and heterologous assessment of a novel biomaterial for venous patch. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2020, 8, 458-469.e1.	1.6	7
16	Intra-myocardial alginate hydrogel injection acts as a left ventricular mid-wall constraint in swine. Acta Biomaterialia, 2020, 111, 170-180.	8.3	22
17	Computational Simulations of Provisional Stenting of a Diseased Coronary Artery Bifurcation Model. Scientific Reports, 2020, 10, 9667.	3.3	6
18	Increased Serum Klotho With Age-Related Aortic Stiffness and Peripheral Vascular Resistance in Young and Middle-Aged Swine. Frontiers in Physiology, 2020, 11, 591.	2.8	4

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19	Thrombogenic and Inflammatory Reactions to Biomaterials in Medical Devices. Frontiers in Bioengineering and Biotechnology, 2020, 8, 123.	4.1	63
20	Selective Autoretroperfusion Provides Substantial Cardioprotection in Swine. JACC Basic To Translational Science, 2020, 5, 267-278.	4.1	1
21	Computational analysis of mechanical stress in colonic diverticulosis. Scientific Reports, 2020, 10, 6014.	3.3	7
22	Application of feed forward and recurrent neural networks in simulation of left ventricular mechanics. Scientific Reports, 2020, 10, 22298.	3.3	9
23	Method for Calibration of Left Ventricle Material Properties Using Three-Dimensional Echocardiography Endocardial Strains. Journal of Biomechanical Engineering, 2019, 141, .	1.3	14
24	Prediction of Left Ventricular Mechanics Using Machine Learning. Frontiers in Physics, 2019, 7, .	2.1	37
25	Numerical Simulations of MitraClip Placement: Clinical Implications. Scientific Reports, 2019, 9, 15823.	3.3	16
26	Mechanisms of Weight Loss After Sleeve Gastrectomy and Adjustable Gastric Banding: Far More Than Just Restriction. Obesity, 2019, 27, 1776-1783.	3.0	18
27	Reply to Letter to Editor by S Tong, L Zhang, J Joseph, and X Jiang "A potential and novel therapeutic approach to ischemic heart failure: Algisyl-LVR― International Journal of Cardiology, 2019, 279, 133.	1.7	0
28	Constitutive Models of Coronary Vasculature. , 2019, , 173-308.		0
29	Search for an Optimal Design of a Bioprosthetic Venous Valve: In silico and inÂvitro Studies. European Journal of Vascular and Endovascular Surgery, 2019, 58, 112-119.	1.5	7
30	Local Coronary Flow and Stress Distribution. , 2019, , 521-564.		0
31	Mechanical Properties and Microstructure of the Coronary Vasculature. , 2019, , 105-171.		O
32	Novel swine model of colonic diverticulosis. American Journal of Physiology - Renal Physiology, 2019, 317, G51-G56.	3.4	5
33	Tricuspid valve regurgitation decreases after mitraclip implantation: Fluid structure interaction simulation. Mechanics Research Communications, 2019, 97, 96-100.	1.8	14
34	In vivo self-assembly of small diameter pulmonary visceral pleura artery graft. Acta Biomaterialia, 2019, 83, 265-276.	8.3	10
35	Iliac Veins Are More Compressible Than Iliac Arteries: A New Method of Testing. Journal of Biomechanical Engineering, 2019, 141, .	1.3	4
36	Intramyocardial Injections to De-Stiffen the Heart: A Subject-Specific in Silico Approach. MCB Molecular and Cellular Biomechanics, 2019, 16, 185-197.	0.7	4

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37	Animal Models of Diverticulosis: Review and Recommendations. Digestive Diseases and Sciences, 2018, 63, 1409-1418.	2.3	7
38	Chronic ETA antagonist reverses hypertension and impairment of structure and function of peripheral small arteries in aortic stiffening. Scientific Reports, 2018, 8, 3076.	3.3	5
39	Efficacy of intramyocardial injection of Algisyl-LVR for the treatment of ischemic heart failure in swine. International Journal of Cardiology, 2018, 255, 129-135.	1.7	27
40	Chemical imaging of fresh vascular smooth muscle cell response by epiâ€detected stimulated Raman scattering. Journal of Biophotonics, 2018, 11, e201700005.	2.3	5
41	Constitutive modeling of the passive inflation-extension behavior of the swine colon. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 176-186.	3.1	25
42	Role of Re-entry Tears on the Dynamics of Type B Dissection Flap. Annals of Biomedical Engineering, 2018, 46, 186-196.	2.5	18
43	Acute Tachycardia Increases Aortic Distensibility, but Reduces Total Arterial Compliance Up to a Moderate Heart Rate. Frontiers in Physiology, 2018, 9, 1634.	2.8	7
44	Biomechanical Material Characterization of Stanford Type-B Dissected Porcine Aortas. Frontiers in Physiology, 2018, 9, 1317.	2.8	3
45	Left Ventricular Wall Stress Is Sensitive Marker of Hypertrophic Cardiomyopathy With Preserved Ejection Fraction. Frontiers in Physiology, 2018, 9, 250.	2.8	14
46	Validated Computational Model to Compute Re-apposition Pressures for Treating Type-B Aortic Dissections. Frontiers in Physiology, 2018, 9, 513.	2.8	4
47	Construction and Validation of Subject-Specific Biventricular Finite-Element Models of Healthy and Failing Swine Hearts From High-Resolution DT-MRI. Frontiers in Physiology, 2018, 9, 539.	2.8	56
48	Hemodynamics of venous valve pairing and implications on helical flow. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2018, 6, 517-522.e1.	1.6	9
49	Bench testing and coronary artery bifurcations: a consensus document from the European Bifurcation Club. EuroIntervention, 2018, 13, e1794-e1803.	3.2	28
50	Biomechanical impact of provisional stenting and balloon dilatation on coronary bifurcation: clinical implications. Journal of Applied Physiology, 2017, 123, 221-226.	2.5	2
51	Passive and Active Triaxial Wall Mechanics in a Two-Layer Model of Porcine Coronary Artery. Scientific Reports, 2017, 7, 13911.	3.3	11
52	Role of Aortic Geometry on Stroke Propensity based on Simulations of Patient-Specific Models. Scientific Reports, 2017, 7, 7065.	3.3	4
53	Flow velocity is relatively uniform in the coronary sinusal venous tree: structure-function relation. Journal of Applied Physiology, 2017, 122, 60-67.	2.5	2
54	Role of Pulse Pressure and Geometry of Primary Entry Tear in Acute Type B Dissection Propagation. Annals of Biomedical Engineering, 2017, 45, 592-603.	2.5	23

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55	Role of vessel-to-prosthesis size mismatch in venous valve performance. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2017, 5, 105-113.e1.	1.6	6
56	Optimization of Peripheral Vascular Sizing with Conductance Guidewire: Theory and Experiment. PLoS ONE, 2017, 12, e0168886.	2.5	4
57	Resliced image space construction for coronary artery collagen fibers. PLoS ONE, 2017, 12, e0184972.	2.5	3
58	Jejunum–ileum circuit procedure improves glucose metabolism in diabetic rats independent of weight loss. Obesity, 2016, 24, 342-351.	3.0	8
59	A validated 3D microstructure-based constitutive model of coronary artery adventitia. Journal of Applied Physiology, 2016, 121, 333-342.	2.5	16
60	Intraspecific scaling laws are preserved in ventricular hypertrophy but not in heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H1108-H1117.	3.2	5
61	K <sub>V</sub> 7 channels contribute to paracrine, but not metabolic or ischemic, regulation of coronary vascular reactivity in swine. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H693-H704.	3.2	17
62	Microstructure-based biomechanics of coronary arteries in health and disease. Journal of Biomechanics, 2016, 49, 2548-2559.	2.1	54
63	Scaling laws of coronary circulation in health and disease. Journal of Biomechanics, 2016, 49, 2531-2539.	2.1	29
64	Hemodynamics of left internal mammary artery bypass graft: Effect of anastomotic geometry, coronary artery stenosis, and postoperative time. Journal of Biomechanics, 2016, 49, 645-652.	2.1	29
65	3D Reconstruction of Coronary Artery Vascular Smooth Muscle Cells. PLoS ONE, 2016, 11, e0147272.	2.5	8
66	Hemodynamics in Coronary Arterial Tree of Serial Stenoses. PLoS ONE, 2016, 11, e0163715.	2.5	21
67	Twoâ€inâ€one aortic valve sizing and valvuloplasty conductance balloon catheter. Catheterization and Cardiovascular Interventions, 2015, 86, 136-143.	1.7	3
68	Growth, ageing and scaling laws of coronary arterial trees. Journal of the Royal Society Interface, 2015, 12, 20150830.	3.4	20
69	Impact of bifurcation dual stenting on endothelial shear stress. Journal of Applied Physiology, 2015, 119, 627-632.	2.5	8
70	Compensatory enlargement of Ossabaw miniature swine coronary arteries in diffuse atherosclerosis. IJC Heart and Vasculature, 2015, 6, 4-11.	1.1	8
71	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting. JACC: Cardiovascular Interventions, 2015, 8, 1281-1296.	2.9	84
72	Remodeling of left circumflex coronary arterial tree in pacing-induced heart failure. Journal of Applied Physiology, 2015, 119, 404-411.	2.5	8

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73	Integrins mediate mechanical compression–induced endothelium-dependent vasodilation through endothelial nitric oxide pathway. Journal of General Physiology, 2015, 146, 221-232.	1.9	14
74	Thrombus deflector stent for stroke prevention: A simulation study. Journal of Biomechanics, 2015, 48, 1789-1795.	2.1	3
75	Growth and remodeling of canine common iliac vein in response to venous reflux and hypertension. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2015, 3, 303-311.e1.	1.6	9
76	Prosthetic venous valve patient selection by validated physics-based computational models. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2015, 3, 75-80.	1.6	2
77	Image-based assessment of fractional flow reserve. EuroIntervention, 2015, 11, V50-V54.	3.2	23
78	Anatomy and function relation in the coronary tree: from bifurcations to myocardial flow and mass. EuroIntervention, 2015, 11, V13-V17.	3.2	28
79	Response of Various Conduit Arteries in Tachycardia- and Volume Overload-Induced Heart Failure. PLoS ONE, 2014, 9, e101645.	2.5	3
80	Longitudinal Hemodynamic Measurements in Swine Heart Failure Using a Fully Implantable Telemetry System. PLoS ONE, 2014, 9, e103331.	2.5	3
81	Constructal Law of Vascular Trees for Facilitation of Flow. PLoS ONE, 2014, 9, e116260.	2.5	13
82	Numerical Simulation and Clinical Implications of Stenosis in Coronary Blood Flow. BioMed Research International, 2014, 2014, 1-10.	1.9	19
83	Increased aortic stiffness elevates pulse and mean pressure and compromises endothelial function in Wistar rats. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H880-H887.	3.2	17
84	Hemodynamic coupling of a pair of venous valves. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2014, 2, 303-314.	1.6	9
85	Age and gender — Specific changes in left ventricular systolic function in human volunteers. International Journal of Cardiology, 2014, 172, e102-e105.	1.7	7
86	Biomechanical comparison between mono-, bi-, and tricuspid valve architectures. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2014, 2, 188-193.e1.	1.6	12
87	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
88	Conductance sizing balloon for measurement of peripheral artery minimal stent area. Journal of Vascular Surgery, 2014, 60, 759-766.	1.1	5
89	IVUS Validation of Patient Coronary Artery Lumen Area Obtained from CT Images. PLoS ONE, 2014, 9, e86949.	2.5	13
90	Analysis of patient-specific surgical ventricular restoration: importance of an ellipsoidal left ventricular geometry for diastolic and systolic function. Journal of Applied Physiology, 2013, 115, 136-144.	2.5	36

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91	Microstructural constitutive model of active coronary media. Biomaterials, 2013, 34, 7575-7583.	11.4	38
92	Computed tomography-based diagnosis of diffuse compensatory enlargement of coronary arteries using scaling power laws. Journal of the Royal Society Interface, 2013, 10, 20121015.	3.4	5
93	Biaxial deformation of collagen and elastin fibers in coronary adventitia. Journal of Applied Physiology, 2013, 115, 1683-1693.	2.5	57
94	Non-linear micromechanics of soft tissues. International Journal of Non-Linear Mechanics, 2013, 56, 79-85.	2.6	35
95	Accurate nonfluoroscopic guidance and tip location of peripherally inserted central catheters using a conductance guidewire system. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2013, 1, 202-208.e1.	1.6	3
96	CT-based Diagnosis of Diffuse Coronary Artery Disease on the Basis of Scaling Power Laws. Radiology, 2013, 268, 694-701.	7.3	20
97	Two-layer model of coronary artery vasoactivity. Journal of Applied Physiology, 2013, 114, 1451-1459.	2.5	24
98	Impact of stent mis-sizing and mis-positioning on coronary fluid wall shear and intramural stress. Journal of Applied Physiology, 2013, 115, 285-292.	2.5	12
99	Stroke Propensity Is Increased under Atrial Fibrillation Hemodynamics: A Simulation Study. PLoS ONE, 2013, 8, e73485.	2.5	11
100	Mild Anastomotic Stenosis in Patient-Specific CABG Model May Enhance Graft Patency: A New Hypothesis. PLoS ONE, 2013, 8, e73769.	2.5	20
101	Relation of angiographic side branch calibre to myocardial mass: a proof of concept myocardial infarct index. EuroIntervention, 2013, 8, 1461-1463.	3.2	18
102	Biaxial vasoactivity of porcine coronary artery. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H2058-H2063.	3.2	38
103	Intraspecific scaling laws of vascular trees. Journal of the Royal Society Interface, 2012, 9, 190-200.	3.4	117
104	A validated predictive model of coronary fractional flow reserve. Journal of the Royal Society Interface, 2012, 9, 1325-1338.	3.4	73
105	Impact of main branch stenting on endothelial shear stress: role of side branch diameter, angle and lesion. Journal of the Royal Society Interface, 2012, 9, 1187-1193.	3.4	17
106	Compensatory remodeling of coronary microvasculature maintains shear stress in porcine left-ventricular hypertrophy. Journal of Hypertension, 2012, 30, 608-616.	0.5	19
107	Which diameter and angle rule provides optimal flow patterns in a coronary bifurcation?. Journal of Biomechanics, 2012, 45, 1273-1279.	2.1	63
108	Optimal diameter of diseased bifurcation segment: a practical rule for percutaneous coronary intervention. EuroIntervention, 2012, 7, 1310-1316.	3.2	56

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109	Selective autoretroperfusion preserves myocardial function during coronary artery ligation in swine. Acute Cardiac Care, 2011, 13, 99-108.	0.2	1
110	The Layered Structure of Coronary Adventitia under Mechanical Load. Biophysical Journal, 2011, 101, 2555-2562.	0.5	74
111	A micromechanics finite-strain constitutive model of fibrous tissue. Journal of the Mechanics and Physics of Solids, 2011, 59, 1823-1837.	4.8	48
112	Role of shear stress and stretch in vascular mechanobiology. Journal of the Royal Society Interface, 2011, 8, 1379-1385.	3.4	253
113	Mis-sizing of stent promotes intimal hyperplasia: impact of endothelial shear and intramural stress. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H2254-H2263.	3.2	52
114	Why is the subendocardium more vulnerable to ischemia? A new paradigm. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H1090-H1100.	3.2	101
115	Experimentally Validated Microstructural 3D Constitutive Model of Coronary Arterial Media. Journal of Biomechanical Engineering, 2011, 133, 031007.	1.3	46
116	Constitutive Modeling of Coronary Arterial Mediaâ€"Comparison of Three Model Classes. Journal of Biomechanical Engineering, 2011, 133, 061008.	1.3	36
117	Assessment of endothelial function of large, medium, and small vessels: a unified myograph. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H94-H100.	3.2	29
118	Reply to Octavia, Wingler, Schmidt, and Moens. Journal of Applied Physiology, 2011, 111, 330-330.	2.5	0
119	Rosiglitazone reverses endothelial dysfunction but not remodeling of femoral artery in Zucker diabetic fatty rats. Cardiovascular Diabetology, 2010, 9, 19.	6.8	29
120	A full 3-D reconstruction of the entire porcine coronary vasculature. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1064-H1076.	3.2	44
121	Mechanisms of myocardium-coronary vessel interaction. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H861-H873.	3.2	62
122	Fluid–Structure Interaction (FSI) Modeling in the Cardiovascular System. , 2010, , 141-157.		11
123	Computational Modeling of Coronary Stents. , 2010, , 207-220.		7
124	Structure-function relation in the coronary artery tree: from fluid dynamics to arterial bifurcations. EuroIntervention, 2010, 6, J10-J15.	3.2	27
125	Right coronary artery becomes stiffer with increase in elastin and collagen in right ventricular hypertrophy. Journal of Applied Physiology, 2009, 106, 1338-1346.	2.5	23
126	A Systems Approach to Tissue Remodeling. Journal of Biomechanical Engineering, 2009, 131, 101008.	1.3	6

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127	A novel system for the reconstruction of a coronary artery lumen profile in real time: a preclinical validation. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H485-H492.	3.2	27
128	Left ventricular regional wall curvedness and wall stress in patients with ischemic dilated cardiomyopathy. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H573-H584.	<b>3.</b> 2	79
129	Wall thickness of coronary vessels varies transmurally in the LV but not the RV: implications for local stress distribution. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H750-H758.	3.2	24
130	Effects of stent sizing on endothelial and vessel wall stress: potential mechanisms for in-stent restenosis. Journal of Applied Physiology, 2009, 106, 1686-1691.	2.5	92
131	Effects of vessel compliance on flow pattern in porcine epicardial right coronary arterial tree. Journal of Biomechanics, 2009, 42, 594-602.	2.1	65
132	The Scaling of Blood Flow Resistance: From a Single Vessel to the Entire Distal Tree. Biophysical Journal, 2009, 96, 339-346.	0.5	42
133	A Scaling Law of Vascular Volume. Biophysical Journal, 2009, 96, 347-353.	0.5	85
134	Biophysical Model of the Spatial Heterogeneity of Myocardial Flow. Biophysical Journal, 2009, 96, 4035-4043.	0.5	42
135	Y. C. "BERT―FUNG: A MASTER. , 2009, , 335-336.		0
136	Validation of Image-Based Method for Extraction of Coronary Morphometry. Annals of Biomedical Engineering, 2008, 36, 356-368.	2.5	39
137	The Flow Field along the Entire Length of Mouse Aorta and Primary Branches. Annals of Biomedical Engineering, 2008, 36, 685-699.	2.5	76
138	Diameter asymmetry of porcine coronary arterial trees: structural and functional implications. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H714-H723.	3.2	48
139	Scaling of myocardial mass to flow and morphometry of coronary arteries. Journal of Applied Physiology, 2008, 104, 1281-1286.	2.5	135
140	Coronary venous retroperfusion: an old concept, a new approach. Journal of Applied Physiology, 2008, 104, 1266-1272.	2.5	26
141	Mechanical Homeostasis of Cardiovascular Tissue. , 2008, , 371-391.		8
142	Capillary Perfusion and Wall Shear Stress Are Restored in the Coronary Circulation of Hypertrophic Right Ventricle. Circulation Research, 2007, 100, 273-283.	4.5	41
143	A hybrid one-dimensional/Womersley model of pulsatile blood flow in the entire coronary arterial tree. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H2623-H2633.	3.2	76
144	Flow patterns in three-dimensional porcine epicardial coronary arterial tree. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2959-H2970.	3.2	88

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145	Surrounding tissues affect the passive mechanics of the vessel wall: theory and experiment. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H3290-H3300.	3.2	77
146	Vasoactivity of Blood Vessels Using a Novel Isovolumic Myograph. Annals of Biomedical Engineering, 2007, 35, 356-366.	2.5	20
147	Three-dimensional mechanical properties of porcine coronary arteries: a validated two-layer model. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1200-H1209.	3.2	83
148	Biomechanics of the cardiovascular system: the aorta as an illustratory example. Journal of the Royal Society Interface, 2006, 3, 719-740.	3.4	91
149	Proper Orientation of the Graft Artery Is Important to Ensure Physiological Flow Direction. Annals of Biomedical Engineering, 2006, 34, 953-957.	2.5	15
150	Myocardial protection in the failing heart: I. Effect of cardioplegia and the beating state under simulated left ventricular restoration. Journal of Thoracic and Cardiovascular Surgery, 2006, 132, 875-883.	0.8	14
151	Myocardial protection in the failing heart: II. Effect of pulsatile cardioplegic perfusion under simulated left ventricular restoration. Journal of Thoracic and Cardiovascular Surgery, 2006, 132, 884-890.	0.8	16
152	A novel strategy for increasing wall thickness of coronary venules prior to retroperfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H972-H978.	3.2	11
153	Estrogen modulates the mechanical homeostasis of mouse arterial vessels through nitric oxide. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1788-H1797.	3.2	37
154	Nonuniformity of axial and circumferential remodeling of large coronary veins in response to ligation. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1558-H1565.	3.2	20
155	Analysis of blood flow in an out-of-plane CABG model. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H283-H295.	3.2	33
156	Scaling laws of vascular trees: of form and function. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H894-H903.	3.2	172
157	BIOMECHANICAL CONSIDERATIONS IN THE DESIGN OF GRAFT: THE HOMEOSTASIS HYPOTHESIS. Annual Review of Biomedical Engineering, 2006, 8, 499-535.	12.3	71
158	Pulsatile blood flow in the entire coronary arterial tree: theory and experiment. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1074-H1087.	3.2	73
159	Biaxial elastic material properties of porcine coronary media and adventitia. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2581-H2587.	3.2	68
160	Functional hierarchy of coronary circulation: direct evidence of a structure-function relation. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H2559-H2565.	3.2	29
161	Effect of Surrounding Tissue on Vessel Fluid and Solid Mechanics. Journal of Biomechanical Engineering, 2004, 126, 760-769.	1.3	33
162	Bifurcation asymmetry of the porcine coronary vasculature and its implications on coronary flow heterogeneity. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2493-H2500.	3.2	32

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163	Biaxial incremental homeostatic elastic moduli of coronary artery: two-layer model. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H1663-H1669.	3.2	72
164	Measurement of Coronary Lumen Area Using an Impedance Catheter: Finite Element Model and in Vitro Validation. Annals of Biomedical Engineering, 2004, 32, 1642-1653.	2.5	22
165	Imaging Coronary Artery Microstructure Using Second-Harmonic and Two-Photon Fluorescence Microscopy. Biophysical Journal, 2004, 87, 2778-2786.	0.5	275
166	Distribution of stress and strain along the porcine aorta and coronary arterial tree. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H2361-H2368.	3.2	66
167	Y.C. "Bert" Fung: the father of modern biomechanics. Mcb Mechanics and Chemistry of Biosystems, 2004, 1, 5-22.	0.3	1
168	Remodelling of the left anterior descending artery in a porcine model of supravalvular aortic stenosis. Journal of Hypertension, 2002, 20, 2429-2437.	0.5	44
169	In vivo validation of the design rules of the coronary arteries and their application in the assessment of diffuse disease. Physics in Medicine and Biology, 2002, 47, 977-93.	3.0	35
170	Relationship between esophageal muscle thickness and intraluminal pressure: an ultrasonographic study. American Journal of Physiology - Renal Physiology, 2001, 280, G1093-G1098.	3.4	38
171	ANALYSIS OF CORONARY CIRCULATION: A BIOENGINEERING APPROACH. Advanced Series in Biomechanics, 2001, , 93-119.	0.1	4
172	The Coronary Vasculature and its Reconstruction. Annals of Biomedical Engineering, 2000, 28, 903-915.	2.5	37
173	Remodeling of the Bifurcation Asymmetry of Right Coronary Ventricular Branches in Hypertrophy. Annals of Biomedical Engineering, 2000, 28, 424-430.	2.5	16
174	A hemodynamic analysis of coronary capillary blood flow based on anatomic and distensibility data. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H2158-H2166.	3.2	37
175	On the design of the coronary arterial tree: a generalization of Murray's law. Physics in Medicine and Biology, 1999, 44, 2929-2945.	3.0	170
176	Relation between zero-stress state and branching order of porcine left coronary arterial tree. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 275, H2283-H2290.	3.2	15
177	Longitudinal position matrix of the pig coronary vasculature and its hemodynamic implications. American Journal of Physiology - Heart and Circulatory Physiology, 1997, 273, H2832-H2842.	3.2	18