Tammo Delhaas

List of Publications by Year
in descending order

174 papers	4,549 citations	126907 33 h-index	133252 59 g-index
175 all docs	175 docs citations	175 times ranked	5250 citing authors

#	Article	IF	Citations
1	The â€˜Digital Twinâ€™ to enable the vision of precision cardiology. European Heart Journal, 2020, 41, 4556-4564.	2.2	319
2	Satellite cells in human skeletal muscle; from birth to old age. Age, 2014, 36, 545-557.	3.0	280
3	Mesenchymal Stromal Cell-Derived Extracellular Vesicles Protect the Fetal Brain After Hypoxia-Ischemia. Stem Cells Translational Medicine, 2016, 5, 754-763.	3.3	223
4	Adaptation to mechanical load determines shape and properties of heart and circulation: the CircAdapt model. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H1943-H1954.	3.2	191
5	Three-Wall Segment (TriSeg) Model Describing Mechanics and Hemodynamics of Ventricular Interaction. Annals of Biomedical Engineering, 2009, 37, 2234-2255.	2.5	154
6	Differentiating Electromechanical From Nonâ€“Electrical Substrates of Mechanical Discoordination to Identify Responders to Cardiac Resynchronization Therapy. Circulation: Cardiovascular Imaging, 2015, 8, e003744.	2.6	125
7	Septal Deformation Patterns Delineate Mechanical Dyssynchrony and Regional Differences in Contractility. Circulation: Heart Failure, 2012, 5, 87-96.	3.9	122
8	Pressure-dependence of arterial stiffness. Journal of Hypertension, 2015, 33, 330-338.	0.5	112
9	Arterial stiffness index beta and cardio-ankle vascular index inherently depend on blood pressure but can be readily corrected. Journal of Hypertension, 2017, 35, 98-104.	0.5	107
10	A guide to uncertainty quantification and sensitivity analysis for cardiovascular applications. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02755.	2.1	105
11	Comparative Electromechanical and Hemodynamic Effects of Left Ventricular and Biventricular Pacing in Dyssynchronous Heart Failure. Journal of the American College of Cardiology, 2013, 62, 2395-2403.	2.8	94
12	Heart Rate Dependency of Large Artery Stiffness. Hypertension, 2016, 68, 236-242.	2.7	79
13	Fast Simulation of Mechanical Heterogeneity in the Electrically Asynchronous Heart Using the MultiPatch Module. PLoS Computational Biology, 2015, 11, e1004284.	3.2	78
14	Beneficial effects of biventricular pacing in chronically right ventricular paced patients with mild cardiomyopathy. Europace, 2010, 12, 223-229.	1.7	75
15	Computational modeling of volumetric soft tissue growth: application to the cardiac left ventricle. Biomechanics and Modeling in Mechanobiology, 2009, 8, 301-309.	2.8	72
16	Mechanistic Evaluation of Echocardiographic Dyssynchrony Indices. Circulation: Cardiovascular Imaging, 2012, 5, 491-499.	2.6	69
17	Computational analysis of the myocardial structure: Adaptation of cardiac myofiber orientations through deformation. Medical Image Analysis, 2009, 13, 346-353.	11.6	57
18	Relation between regional electrical activation time and subepicardial fiber strain in the canine left ventricle. Pflugers Archiv European Journal of Physiology, 1993, 423-423, 78-87.	2.8	54

#	Article	IF	Citations
19	A Multicenter, Long-Term Study on Arrhythmias in Children with Ebstein Anomaly. Pediatric Cardiology, 2010, 31, 229-233.	1.3	53
20	Right Ventricular Imaging and Computer Simulation for Electromechanical Substrate Characterization in Arrhythmogenic Right Ventricular Cardiomyopathy. Journal of the American College of Cardiology, 2016, 68, 2185-2197.	2.8	52
21	Increase in left ventricular torsion-to-shortening ratio in children with valvular aortic stenosis. Magnetic Resonance in Medicine, 2004, 51, 135-139.	3.0	51
22	Pulmonary Right Ventricular Resynchronization in Congenital Heart Disease. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	51
23	Determinants of left ventricular shear strain. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H1058-H1068.	3.2	50
24	Treatment of pulmonary arterial hypertension in children. Nature Reviews Cardiology, 2015, 12, 244-254.	13.7	50
25	Mechano-energetics of the asynchronous and resynchronized heart. Heart Failure Reviews, 2011, 16, 215-224.	3.9	48
26	Considering discrepancy when calibrating a mechanistic electrophysiology model. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190349.	3.4	46
27	Management of children with dilated cardiomyopathy in The Netherlands: Implications of a low early transplantation rate. Journal of Heart and Lung Transplantation, 2015, 34, 963-969.	0.6	45
28	Right ventricular free wall pacing improves cardiac pump function in severe pulmonary arterial hypertension: a computer simulation analysis. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H2196-H2205.	3.2	44
29	Control of Whole Heart Geometry by Intramyocardial Mechano-Feedback: A Model Study. PLoS Computational Biology, 2012, 8, e1002369.	3.2	43
30	Influence of left ventricular lead position relative to scar location on response to cardiac resynchronization therapy: a model study. Europace, 2014, 16, iv62-iv68.	1.7	40
31	Why septal motion is a marker of right ventricular failure in pulmonary arterial hypertension: mechanistic analysis using a computer model. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H691-H700.	3.2	38
32	Early initiation of extracorporeal life support in refractory out-of-hospital cardiac arrest: Design and rationale of the INCEPTION trial. American Heart Journal, 2019, 210, 58-68.	2.7	38
33	Augmentation index is not a proxy for wave reflection magnitude: mechanistic analysis using a computational model. Journal of Applied Physiology, 2019, 127, 491-500.	2.5	36
34	Relative Impact of Right Ventricular Electromechanical Dyssynchrony Versus Pulmonary Regurgitation on Right Ventricular Dysfunction and Exercise Intolerance in Patients After Repair of Tetralogy of Fallot. Journal of the American Heart Association, 2019, 8, e010903.	3.7	36
35	Left ventricular underfilling and not septal bulging dominates abnormal left ventricular filling hemodynamics in chronic thromboembolic pulmonary hypertension. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1083-H1091.	3.2	35
36	Improving Prediction of Favourable Outcome After 6ÂMonths in Patients with Severe Traumatic Brain Injury Using Physiological Cerebral Parameters in a Multivariable Logistic Regression Model. Neurocritical Care, 2020, 33, 542-551.	2.4	34

#	Article	IF	Citations
37	Multipotent adult progenitor cells for hypoxic-ischemic injury in the preterm brain. Journal of Neuroinflammation, 2015, 12, 241.	7.2	29
38	Optic nerve sheath diameter assessment by neurosonology: A review of methodologic discrepancies. Journal of Neuroimaging, 2021, 31, 814-825.	2.0	29
39	Septal flash and septal rebound stretch have different underlying mechanisms. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H394-H403.	3.2	28
40	Options for Dealing with Pressure Dependence of Pulse Wave Velocity as a Measure of Arterial Stiffness: An Update of Cardio-Ankle Vascular Index (CAVI) and CAVI0. Pulse, 2017, 5, 106-114.	1.9	28
41	Electrical Substrates Driving Response to Cardiac Resynchronization Therapy. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005647.	4.8	27
42	Long-Term Risk to Develop Hypertension in Women With Former Preeclampsia: A Longitudinal Pilot Study. Reproductive Sciences, 2014, 21, 846-853.	2.5	26
43	Application of an Adaptive Polynomial Chaos Expansion on Computationally Expensive Three-Dimensional Cardiovascular Models for Uncertainty Quantification and Sensitivity Analysis. Journal of Biomechanical Engineering, 2016, 138, .	1.3	26
44	Early-diastolic left ventricular lengthening implies pulmonary hypertension-induced right ventricular decompensation. Cardiovascular Research, 2012, 96, 286-295.	3.8	25
45	Cardiovascular Modeling in Pulmonary Arterial Hypertension: Focus on Mechanisms and Treatment of Right Heart Failure Using the CircAdapt Model. American Journal of Cardiology, 2012, 110, S39-S48.	1.6	25
46	Longitudinal Strain. JACC: Cardiovascular Imaging, 2015, 8, 1360-1363.	5.3	25
47	Normal ranges for fetal electrocardiogram values for the healthy fetus of 18â€“24Âweeks of gestation: a prospective cohort study. BMC Pregnancy and Childbirth, 2016, 16, 227.	2.4	25
48	Echocardiographic Prediction of Cardiac Resynchronization Therapy Response Requires Analysis of Both Mechanical Dyssynchrony and Right Ventricular Function: A Combined Analysis ofÂPatient Data and Computer Simulations. Journal of the American Society of Echocardiography, 2017, 30, 1012-1020.e2.	2.8	25
49	Mutation pattern in 606 Duchenne muscular dystrophy children with a comparison between familial and non-familial forms: a study in an Indian large single-center cohort. Journal of Neurology, 2019, 266, 2177-2185.	3.6	25
50	An audit of uncertainty in multi-scale cardiac electrophysiology models. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190335.	3.4	25
51	A constitutive modeling interpretation of the relationship among carotid artery stiffness, blood pressure, and age in hypertensive subjects. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H568-H582.	3.2	24
52	In vivo electromechanical assessment of heart failure patients with prolonged QRS duration. Heart Rhythm, 2015, 12, 1259-1267.	0.7	24
53	Atrial septostomy benefits severe pulmonary hypertension patients by increase of left ventricular preload reserve. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H2654-H2662.	3.2	23
54	In vitro and in vivo evaluation of drug-eluting microspheres designed for transarterial chemoembolization therapy. International Journal of Pharmaceutics, 2016, 503, 150-162.	5.2	23

#	Article	IF	Citations
55	Modeling Cardiac Electromechanics and Mechanoelectrical Coupling in Dyssynchronous and Failing Hearts. Journal of Cardiovascular Translational Research, 2012, 5, 159-169.	2.4	22
56	Steep Increase in Myonuclear Domain Size During Infancy. Anatomical Record, 2013, 296, 192-197.	1.4	22
57	Improving long QT syndrome diagnosis by a polynomial-based T-wave morphology characterization. Heart Rhythm, 2020, 17, 752-758.	0.7	22
58	The Left and Right Ventricles Respond Differently to Variation of Pacing Delays in Cardiac Resynchronization Therapy: A Combined Experimental- Computational Approach. Frontiers in Physiology, 2019, 10, 17.	2.8	21
59	Cardiac Fiber Orientation and the Left-Right Asymmetry Determining Mechanism. Annals of the New York Academy of Sciences, 2004, 1015, 190-201.	3.8	20
60	A method for three-dimensional quantification of vascular smooth muscle orientation: application in viable murine carotid arteries. Biomechanics and Modeling in Mechanobiology, 2016, 15, 419-432.	2.8	20
61	Determinants of biventricular cardiac function: a mathematical model study on geometry and myofiber orientation. Biomechanics and Modeling in Mechanobiology, 2017, 16, 721-729.	2.8	20
62	The development and validation of an easy to use automatic QT-interval algorithm. PLoS ONE, 2017, 12, e0184352.	2.5	20
63	Combining computer modelling and cardiac imaging to understand right ventricular pump function. Cardiovascular Research, 2017, 113, 1486-1498.	3.8	19
64	Support vector machine-based assessment of the T-wave morphology improves long QT syndrome diagnosis. Europace, 2018, 20, iii113-iii119.	1.7	19
65	Potts Shunt to Be Preferred Above Atrial Septostomy in Pediatric Pulmonary Arterial Hypertension Patients: A Modeling Study. Frontiers in Physiology, 2018, 9, 1252.	2.8	19
66	Five years of cardio-ankle vascular index (CAVI) and CAVI0: how close are we to a pressure-independent index of arterial stiffness?. Journal of Hypertension, 2021, 39, 2128-2138.	0.5	19
67	Structure and torsion of the normal and situs inversus totalis cardiac left ventricle. I. Experimental data in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H197-H201.	3.2	18
68	Abnormal Ventricular and Aortic Wall Properties Can Cause Inconsistencies in Grading Aortic Regurgitation Severity: A Computer Simulation Study. Journal of the American Society of Echocardiography, 2016, 29, 1122-1130.e4.	2.8	18
69	Simulation of adaptation of blood vessel geometry to flow and pressure: Implications for arterio-venous impedance. Mechanics Research Communications, 2012, 42, 15-21.	1.8	17
70	Late recovery of atrioventricular conduction after postsurgical chronic atrioventricular block is not exceptional. Journal of Thoracic and Cardiovascular Surgery, 2013, 145, 1028-1032.	0.8	17
71	Mechano-electrical coupling as framework for understanding functional remodeling during LBBB and CRT. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1644-H1659.	3.2	17
72	Heart rate and blood pressure dependence of aortic distensibility in rats: comparison of measured and calculated pulse wave velocity. Journal of Hypertension, 2021, 39, 117-126.	0.5	16

#	Article	IF	Citations
73	Mechano-chemical Interactions in Cardiac Sarcomere Contraction: A Computational Modeling Study. PLoS Computational Biology, 2016, 12, e1005126.	3.2	16
74	Left ventricular apical torsion and architecture are not inverted in situs inversus totalis. Progress in Biophysics and Molecular Biology, 2008, 97, 513-519.	2.9	15
75	Structure and torsion in the normal and situs inversus totalis cardiac left ventricle. II. Modeling cardiac adaptation to mechanical load. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H202-H210.	3.2	15
76	Responses of the spleen to intraamniotic lipopolysaccharide exposure in fetal sheep. Pediatric Research, 2015, 77, 29-35.	2.3	15
77	Effects of Chronic Carbamazepine Treatment on the ECG in Patients with Focal Seizures. Clinical Drug Investigation, 2018, 38, 845-851.	2.2	14
78	Clinical correlates of echocardiographic tissue velocity imaging abnormalities of the left atrial wall during atrial fibrillation. Europace, 2014, 16, 1546-1553.	1.7	13
79	Patient-specific blood pressure correction technique for arterial stiffness: evaluation in a cohort on anti-angiogenic medication. Hypertension Research, 2017, 40, 752-757.	2.7	13
80	Uncertainty quantification and sensitivity analysis of an arterial wall mechanics model for evaluation of vascular drug therapies. Biomechanics and Modeling in Mechanobiology, 2018, 17, 55-69.	2.8	13
81	Do treatment-induced changes in arterial stiffness affect left ventricular structure? A meta-analysis. Journal of Hypertension, 2019, 37, 253-263.	0.5	13
82	Percutaneous Device Closure of Congenital Isolated Ventricular Septal Defects: A Single-Center Retrospective Database Study Amongst 412 Cases. Pediatric Cardiology, 2020, 41, 591-598.	1.3	13
83	Pressure-Corrected Carotid Stiffness and Youngâ€™s Modulus: Evaluation in an Outpatient Clinic Setting. American Journal of Hypertension, 2021, 34, 737-743.	2.0	13
84	Pulmonary vascular changes in extremely preterm sheep after intra-amniotic exposure to Ureaplasma parvum and lipopolysaccharide. PLoS ONE, 2017, 12, e0180114.	2.5	13
85	Systemic interleukin-2 administration improves lung function and modulates chorioamnionitis-induced pulmonary inflammation in the ovine fetus. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L1-L7.	2.9	12
86	Support Vector Machine Based Monitoring of Cardio-Cerebrovascular Reserve during Simulated Hemorrhage. Frontiers in Physiology, 2017, 8, 1057.	2.8	12
87	Natural Vascular Remodelling After Arteriovenous Fistula Creation in Dialysis Patients With and Without Previous Ipsilateral Vascular Access. European Journal of Vascular and Endovascular Surgery, 2020, 59, 277-287.	1.5	12
88	A Novel Tool for the Identification and Characterization of Repetitive Patterns in High-Density Contact Mapping of Atrial Fibrillation. Frontiers in Physiology, 2020, 11, 570118.	2.8	12
89	Pacing therapy for atrioventricular dromotropathy: a combined computationalâ€“experimentalâ€“clinical study. Europace, 2022, 24, 784-795.	1.7	12
90	An integrated set-up for ex vivo characterisation of biaxial murine artery biomechanics under pulsatile conditions. Scientific Reports, 2021, 11, 2671.	3.3	12

#	Article	IF	Citations
91	Head orientation should be considered in ultrasound studies on carotid artery distensibility. Journal of Hypertension, 2016, 34, 1551-1555.	0.5	11
92	Surgical outcome in pediatric patients with Ebstein's anomaly: A multicenter, long-term study. Congenital Heart Disease, 2017, 12, 32-39.	0.2	11
93	Preoperative computer simulation for planning of vascular access surgery in hemodialysis patients. Journal of Vascular Access, 2017, 18, S118-S124.	0.9	11
94	Large vessels as a tree of transmission lines incorporated in the CircAdapt whole-heart model: A computational tool to examine heart-vessel interaction. PLoS Computational Biology, 2019, 15, e1007173.	3.2	11
95	Computer Modelling for Better Diagnosis and Therapy of Patients by Cardiac Resynchronisation Therapy. Arrhythmia and Electrophysiology Review, 2015, 4, 62.	2.4	11
96	Altered canonical Wingless-Int signaling in the ovine fetal lung after exposure to intra-amniotic lipopolysaccharide and antenatal betamethasone. Pediatric Research, 2014, 75, 281-287.	2.3	10
97	Pre-operative Duplex Ultrasonography in Arteriovenous Fistula Creation: Intra- and Inter-observer Agreement. European Journal of Vascular and Endovascular Surgery, 2017, 54, 613-619.	1.5	10
98	Linking cross-bridge cycling kinetics to response to cardiac resynchronization therapy: a multiscale modelling study. Europace, 2018, 20, iii87-iii93.	1.7	10
99	Pre-operative Patient Specific Flow Predictions to Improve Haemodialysis Arteriovenous Fistula Maturation (Shunt Simulation Study): A Randomised Controlled Trial. European Journal of Vascular and Endovascular Surgery, 2020, 60, 98-106.	1.5	10
100	Parameter subset reduction for patient-specific modelling of arrhythmogenic cardiomyopathy-related mutation carriers in the CircAdapt model. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190347.	3.4	10
101	Electromechanical substrate characterization in arrhythmogenic cardiomyopathy using imaging-based patient-specific computer simulations. Europace, 2021, 23, i153-i160.	1.7	10
102	Why SIT Works: Normal Function Despite Typical Myofiber Pattern in Situs Inversus Totalis (SIT) Hearts Derived by Shear-induced Myofiber Reorientation. PLoS Computational Biology, 2012, 8, e1002611.	3.2	9
103	Tissue velocity imaging of the left atrium predicts response to flecainide in patients with acute atrial fibrillation. Heart Rhythm, 2014, 11, 478-484.	0.7	9
104	Computational study on the haemodynamic and mechanical performance of electrospun polyurethane dialysis grafts. Biomechanics and Modeling in Mechanobiology, 2020, 19, 713-722.	2.8	9
105	Differentiating the effects of Î²-adrenergic stimulation and stretch on calcium and force dynamics using a novel electromechanical cardiomyocyte model. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H519-H530.	3.2	9
106	The standardized 12-lead fetal electrocardiogram of the healthy fetus in mid-pregnancy: A cross-sectional study. PLoS ONE, 2020, 15, e0232606.	2.5	9
107	The Putative Role of Methylglyoxal in Arterial Stiffening: A Review. Heart Lung and Circulation, 2021, 30, 1681-1693.	0.4	9
108	Mechano-electrical feedback explains T-wave morphology and optimizes cardiac pump function: Insight from a multi-scale model. Progress in Biophysics and Molecular Biology, 2012, 110, 359-371.	2.9	8

#	Article	IF	Citations
109	Heart rateâ€“mediated blood pressure control in preterm fetal sheep under normal and hypoxicâ€“ischemic conditions. Pediatric Research, 2013, 73, 420-426.	2.3	8
110	Effects of activation pattern and active stress development on myocardial shear in a model with adaptive myofiber reorientation. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H538-H546.	3.2	8
111	Comparison of septal strain patterns in dyssynchronous heart failure between speckle tracking echocardiography vendor systems. Journal of Electrocardiology, 2015, 48, 609-616.	0.9	8
112	Paediatric Ebsteinâ€™s anomaly: how clinical presentation predicts mortality. Archives of Disease in Childhood, 2018, 103, 859-863.	1.9	8
113	High tension in sarcomeres hinders myocardial relaxation: A computational study. PLoS ONE, 2018, 13, e0204642.	2.5	8
114	Increased myocardial stiffness more than impaired relaxation function limits cardiac performance during exercise in heart failure with preserved ejection fraction: a virtual patient study. European Heart Journal Digital Health, 2020, 1, 40-50.	1.7	8
115	Simulation of the Fontan circulation during rest and exercise. , 2012, 2012, 6673-6.		7
116	The mechanical fibrillation pattern of the atrial myocardium is associated with acute and long-term success of electrical cardioversion in patients with persistent atrial fibrillation. Heart Rhythm, 2014, 11, 1514-1521.	0.7	7
117	In Vivo Validation of Patientâ€Specific Pressure Gradient Calculations for Iliac Artery Stenosis Severity Assessment. Journal of the American Heart Association, 2017, 6, .	3.7	7
118	Intra-Operative Video-Based Measurement of Biaxial Strains of the Ascending Thoracic Aorta. Biomedicines, 2021, 9, 670.	3.2	7
119	Uncertainty Quantification of Regional Cardiac Tissue Properties in Arrhythmogenic Cardiomyopathy Using Adaptive Multiple Importance Sampling. Frontiers in Physiology, 2021, 12, 738926.	2.8	7
120	Quantification of cytoskeletal deformation in living cells based on hierarchical feature vector matching. American Journal of Physiology - Cell Physiology, 2002, 283, C639-C645.	4.6	6
121	Preoperative Sildenafil administration in children undergoing cardiac surgery: a randomized controlled preconditioning study. European Journal of Cardio-thoracic Surgery, 2016, 49, 1403-1410.	1.4	6
122	Comparison of ECG-based physiological markers for hypoxia in a preterm ovine model. Pediatric Research, 2016, 79, 907-915.	2.3	6
123	Pulmonary vein isolation in a real-world population does not influence QTc interval. Europace, 2021, 23, i48-i54.	1.7	6
124	An Automated Algorithm for Optic Nerve Sheath Diameter Assessment from Bâ€mode Ultrasound Images. Journal of Neuroimaging, 2021, 31, 724-732.	2.0	6
125	Ureter Smooth Muscle Cell Orientation in Rat Is Predominantly Longitudinal. PLoS ONE, 2014, 9, e86207.	2.5	5
126	Carotid Artery Applanation Tonometry Does Not Cause Significant Baroreceptor Activation. American Journal of Hypertension, 2016, 29, 299-302.	2.0	5

#	Article	IF	Citations
127	Reply. Journal of Hypertension, 2018, 36, 960-962.	0.5	5
128	ST waveform analysis for monitoring hypoxic distress in fetal sheep after prolonged umbilical cord occlusion. PLoS ONE, 2018, 13, e0195978.	2.5	5
129	Artifacts in pulse transit time measurements using standard patient monitoring equipment. PLoS ONE, 2019, 14, e0218784.	2.5	5
130	Computational Modelling Based Recommendation on Optimal Dialysis Needle Positioning and Dialysis Flow in Patients With Arteriovenous Grafts. European Journal of Vascular and Endovascular Surgery, 2020, 59, 288-294.	1.5	5
131	The Effect of Geometric Graft Modification on Arteriovenous Graft Patency in Haemodialysis Patients: A Systematic Review and Meta-Analysis. European Journal of Vascular and Endovascular Surgery, 2020, 60, 568-577.	1.5	5
132	Exploring the cause of conduction delays in patients with repaired Tetralogy of Fallot. Europace, 2021, 23, i105-i112.	1.7	5
133	Diagnostic accuracy of the response to the brief tachycardia provoked by standing in children suspected for long QT syndrome. Heart Rhythm O2, 2021, 2, 149-159.	1.7	5
134	A Closed-Loop Modeling Framework for Cardiac-to-Coronary Coupling. Frontiers in Physiology, 2022, 13, 830925.	2.8	5
135	A Lumped Two-Compartment Model for Simulation of Ventricular Pump and Tissue Mechanics in Ischemic Heart Disease. Frontiers in Physiology, 2022, 13, .	2.8	5
136	A machine-learning based analysis for the recognition of progressive central hypovolemia. Physiological Measurement, 2017, 38, 1791-1801.	2.1	4
137	Haemodynamic optimisation of a dialysis graft design using a global optimisation approach. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3423.	2.1	4
138	Cardiovascular fetal-to-neonatal transition: an in silico model. Pediatric Research, 2022, 91, 116-128.	2.3	4
139	Incidence, prevalence, and trajectories of repetitive conduction patterns in human atrial fibrillation. Europace, 2021, 23, i123-i132.	1.7	4
140	Persistent, Imperforate Eustachian Valve. Journal of the American College of Cardiology, 2013, 61, 2568.	2.8	3
141	Assessment of Septal Motion Abnormalities in Left Bundle Branch Block Patients Using Computer Simulations. Lecture Notes in Computer Science, 2015, , 40-47.	1.3	3
142	Hemodynamic significance assessment of equivocal iliac artery stenoses by comparing duplex ultrasonography with intra-arterial pressure measurements. Journal of Cardiovascular Surgery, 2017, 59, 37-44.	0.6	3
143	Assessment and comparison of left ventricular shear in normal and situs inversus totalis hearts by means of magnetic resonance tagging. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H416-H423.	3.2	2
144	Cardiac perforation complicating cardiac electrophysiology procedures: value of angiography and use of a closure device to avoid cardiac surgery. Journal of Interventional Cardiac Electrophysiology, 2020, 58, 193-201.	1.3	2

#	Article	IF	Citations
145	Sequential Exposure to Antenatal Microbial Triggers Attenuates Alveolar Growth and Pulmonary Vascular Development and Impacts Pulmonary Epithelial Stem/Progenitor Cells. Frontiers in Medicine, 2021, 8, 614239.	2.6	2
146	Hemodynamics-driven mathematical model of first and second heart sound generation. PLoS Computational Biology, 2021, 17, e1009361.	3.2	2
147	On the Estimation of Transmural Myocardial Shear by Means of MRI Tagging. Lecture Notes in Computer Science, 2011, , 105-112.	1.3	2
148	Chorioamnionitis induces changes in ovine pulmonary endogenous epithelial stem/progenitor cells in utero. Pediatric Research, 2021, 90, 549-558.	2.3	2
149	An Exploratory Study on Vectorcardiographic Identification of the Site of Origin of Focally Induced Premature Depolarizations in Horses, Part II: The Ventricles. Animals, 2022, 12, 550.	2.3	2
150	An Exploratory Study on Vectorcardiographic Identification of the Site of Origin of Focally Induced Premature Depolarizations in Horses, Part I: The Atria. Animals, 2022, 12, 549.	2.3	2
151	Synchronization of repolarization after cardiac resynchronization therapy: a combined clinical and modeling study. Journal of Cardiovascular Electrophysiology, 0, , .	1.7	2
152	Three-dimensional vascular smooth muscle orientation as quantitatively assessed by multiphoton microscopy: Mouse carotid arteries do show a helix. , 2014, 2014, 202-5.		1
153	Deep brain stimulator-induced flutter-like artefact on Holter recording. European Heart Journal, 2017, 38, 61-61.	2.2	1
154	Zeroâ€dimensional lumped approach to incorporate the dynamic part of the pressure at vessel junctions in a 1D wave propagation model. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3116.	2.1	1
155	Head orientation and electrode placement potentially influence fetal scalp ECG waveform. PLoS ONE, 2019, 14, e0223282.	2.5	1
156	Transvenous pacing in complex post-operative congenital heart disease guided by angiography: A case report. Indian Pacing and Electrophysiology Journal, 2019, 19, 30-33.	0.6	1
157	Adenosine usage during AF ablation in Europe and selected long-term findings from the ESC-EHRA EORP Atrial Fibrillation Ablation Long-Term registry. Journal of Interventional Cardiac Electrophysiology, 2021, 60, 395-406.	1.3	1
158	Ratio of arterial blood pressures at borders of window surrounding systolic peak indicates patent ductus arteriosus in preterm infants. Physiological Measurement, 2021, 42, 015005.	2.1	1
159	Does heart-type fatty acid-binding protein predict clinical outcomes after pediatric cardiac surgery?. Annals of Pediatric Cardiology, 2017, 10, 245.	0.5	1
160	Single M-Line Is as Reliable as Multiple M-Line Ultrasound for Carotid Artery Screening. Frontiers in Physiology, 2021, 12, 787083.	2.8	1
161	Steep Increase in Myonuclear Domain Size During Infancy. Anatomical Record, 2013, 296, C1-C1.	1.4	0
162	Is individualized corrected QT interval a silver bullet for the diagnosis of long QT syndrome?. Heart Rhythm, 2017, 14, 383-384.	0.7	0

#	Article	IF	Citations
163	Letter by Bennis et al Regarding Article, â€œCerebral Near-Infrared Spectroscopy: A Potential Approach for Thrombectomy Monitoringâ€. Stroke, 2018, 49, e135.	2.0	0
164	Why -aVF can be used in STAN as a proxy for scalp electrode-derived signal; reply to comments by Kjellmer et al.. PLoS ONE, 2019, 14, e0221220.	2.5	0
165	Complementing sparse vascular imaging data by physiological adaptation rules. Journal of Applied Physiology, 2021, 130, 571-588.	2.5	0
166	Effect of citric-acid dialysate on the QTC-interval. Scientific Reports, 2021, 11, 9909.	3.3	0
167	Does pulmonary vein isolation prolong QT-interval?â€” Authorsâ€™ reply. Europace, 2021, 23, 2046-2047.	1.7	0
168	Corrected QT interval prolongation after ganglionated plexus ablation: myth or reality?â€”Authorsâ€™ reply. Europace, 2021, 23, 2047-2048.	1.7	0
169	Improved Quantification of Cell Density in the Arterial Wallâ€”A Novel Nucleus Splitting Approach Applied to 3D Two-Photon Laser-Scanning Microscopy. Frontiers in Physiology, 2021, 12, 814434.	2.8	0
170	Title is missing!. , 2020, 15, e0232606.		0
171	Title is missing!. , 2020, 15, e0232606.		0
172	Title is missing!. , 2020, 15, e0232606.		0
173	Title is missing!. , 2020, 15, e0232606.		0
174	Myocardial Mechano-Energetics. , 0, , 55-76.		0