Alberto P Avolio

List of Publications by Year
in descending order

251 papers	8,048 citations	71061 41 h-index	60583 81 g-index
253 all docs	253 docs citations	253 times ranked	9243 citing authors

#	Article	IF	Citations
1	Recommendations for Improving and Standardizing Vascular Research on Arterial Stiffness. Hypertension, 2015, 66, 698-722.	1.3	1,073
2	Role of Pulse Pressure Amplification in Arterial Hypertension. Hypertension, 2009, 54, 375-383.	1.3	457
3	Methods and devices for measuring arterial compliance in humans. American Journal of Hypertension, 2002, 15, 743-753.	1.0	311
4	Quantification of Wave Reflection in the Human Aorta From Pressure Alone. Hypertension, 2006, 48, 595-601.	1.3	267
5	Arterial blood pressure measurement and pulse wave analysis-â€“their role in enhancing cardiovascular assessment. Physiological Measurement, 2010, 31, R1-R47.	1.2	247
6	Quantification of Alterations in Structure and Function of Elastin in the Arterial Media. Hypertension, 1998, 32, 170-175.	1.3	207
7	AGE, HYPERTENSION AND ARTERIAL FUNCTION. Clinical and Experimental Pharmacology and Physiology, 2007, 34, 665-671.	0.9	199
8	The Relationship of Age With Regional Aortic Stiffness and Diameter. JACC: Cardiovascular Imaging, 2010, 3, 1247-1255.	2.3	190
9	Mechanical stretch: physiological and pathological implications for human vascular endothelial cells. Vascular Cell, 2015, 7, 8.	0.2	185
10	Validation of non-invasive central blood pressure devices: ARTERY Society task force consensus statement on protocol standardization. European Heart Journal, 2017, 38, 2805-2812.	1.0	175
11	Validity and repeatability of the Vicorder apparatus: a comparison with the SphygmoCor device. Hypertension Research, 2009, 32, 1079-1085.	1.5	155
12	Smooth muscle cell and arterial aging: basic and clinical aspects. Cardiovascular Research, 2018, 114, 513-528.	1.8	153
13	Determination of Aortic Pulse Wave Velocity From Waveform Decomposition of the Central Aortic Pressure Pulse. Hypertension, 2008, 51, 188-195.	1.3	130
14	Methodology and technology for peripheral and central blood pressure and blood pressure variability measurement. Journal of Hypertension, 2016, 34, 1665-1677.	0.3	118
15	Basal NO Locally Modulates Human Iliac Artery Function In Vivo. Hypertension, 2005, 46, 227-231.	1.3	112
16	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.	0.3	107
17	Nebivolol Increases Arterial Distensibility In Vivo. Hypertension, 2004, 44, 305-310.	1.3	96
18	Arterial Stiffness. Pulse, 2013, 1, 14-28.	0.9	91

#	Article	IF	Citations
19	Inhibition of Glycosphingolipid Synthesis Ameliorates Atherosclerosis and Arterial Stiffness in Apolipoprotein E ^{â˜'/â˜'} Mice and Rabbits Fed a High-Fat and -Cholesterol Diet. Circulation, 2014, 129, 2403-2413.	1.6	90
20	Noninvasive Estimation of Aortic Stiffness Through Different Approaches. Hypertension, 2019, 74, 117-129.	1.3	89
21	Retinal vascular and structural changes are associated with amyloid burden in the elderly: ophthalmic biomarkers of preclinical Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2017, 9, 13.	3.0	88
22	Evaluation of the Accuracy of Cuffless Blood Pressure Measurement Devices: Challenges and Proposals. Hypertension, 2021, 78, 1161-1167.	1.3	88
23	Heart Rate Dependency of Large Artery Stiffness. Hypertension, 2016, 68, 236-242.	1.3	79
24	Heart Rate Dependence of Aortic Pulse Wave Velocity at Different Arterial Pressures in Rats. Hypertension, 2012, 60, 528-533.	1.3	78
25	Carotid-femoral pulse wave velocity assessment using novel cuff-based techniques. Journal of Hypertension, 2013, 31, 2237-2243.	0.3	77
26	Snoring-related energy transmission to the carotid artery in rabbits. Journal of Applied Physiology, 2006, 100, 1547-1553.	1.2	75
27	Arterial Flow, Pulse Pressure and Pulse Wave Velocity in Men and Women at Various Ages. Advances in Experimental Medicine and Biology, 2018, 1065, 153-168.	0.8	74
28	Critical Closing Pressure Determined with a Model of Cerebrovascular Impedance. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 235-243.	2.4	71
29	Is obstructive sleep apnoea causally related to arterial stiffness? A critical review of the experimental evidence. Sleep Medicine Reviews, 2013, 17, 7-18.	3.8	65
30	Cuffless blood pressure measuring devices: review and statement by the European Society of Hypertension Working Group on Blood Pressure Monitoring and Cardiovascular Variability. Journal of Hypertension, 2022, 40, 1449-1460.	0.3	65
31	Exercise, Vascular Stiffness, and Tissue Transglutaminase. Journal of the American Heart Association, 2014, 3, e000599.	1.6	64
32	Aortic stiffness is associated with vascular calcification and remodeling in a chronic kidney disease rat model. American Journal of Physiology - Renal Physiology, 2011, 300, F1431-F1436.	1.3	61
33	Increased tissue transglutaminase activity contributes to central vascular stiffness in eNOS knockout mice. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H803-H810.	1.5	61
34	Isolated systolic hypertension in the young. Journal of Hypertension, 2018, 36, 1222-1236.	0.3	61
35	One protein, multiple pathologies: multifaceted involvement of amyloid Î² in neurodegenerative disorders of the brain and retina. Cellular and Molecular Life Sciences, 2016, 73, 4279-4297.	2.4	60
36	Estimation of central aortic systolic pressure using late systolic inflection of radial artery pulse and its application to vasodilator therapy. Journal of Hypertension, 2012, 30, 908-916.	0.3	55

#	Article	IF	Citations
37	Tissue Transglutaminase Modulates Vascular Stiffness and Function Through Crosslinkingâ€Dependent and Crosslinkingâ€Independent Functions. Journal of the American Heart Association, 2017, 6, .	1.6	55
38	Systemic hemodynamic atherothrombotic syndrome (SHATS) â€“ Coupling vascular disease and blood pressure variability: Proposed concept from pulse of Asia. Progress in Cardiovascular Diseases, 2020, 63, 22-32.	1.6	54
39	Genetic and Environmental Factors in the Function and Structure of the Arterial Wall. Hypertension, 1995, 26, 34-37.	1.3	54
40	Effect of vitamin D on aortic remodeling in streptozotocin-induced diabetes. Cardiovascular Diabetology, 2012, 11, 58.	2.7	52
41	Cerebral Haemodynamics: Effects of Systemic Arterial Pulsatile Function and Hypertension. Current Hypertension Reports, 2018, 20, 20.	1.5	45
42	Towards a consensus on the understanding and analysis of the pulse waveform: Results from the 2016 Workshop on Arterial Hemodynamics: Past, present and future. Artery Research, 2017, 18, 75.	0.3	44
43	Effect of Heart Rate on Arterial Stiffness as Assessed by Pulse Wave Velocity. Current Hypertension Reviews, 2018, 14, 107-122.	0.5	42
44	Effects of arterial dilator agents on central aortic systolic pressure and on left ventricular hydraulic load. American Journal of Cardiology, 1989, 63, I38-I44.	0.7	40
45	Estimation of central aortic pressure waveform features derived from the brachial cuff volume displacement waveform. , 2012, 2012, 2591-4.		38
46	Arterial viscoelasticity: role in the dependency of pulse wave velocity on heart rate in conduit arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H1185-H1194.	1.5	37
47	The finger volume pulse and assessment of arterial properties. Journal of Hypertension, 2002, 20, 2341-2343.	0.3	36
48	Cuffless Blood Pressure Measurement. Annual Review of Biomedical Engineering, 2022, 24, 203-230.	5.7	36
49	Relationship between body mass index and arterial stiffness in a health assessment Chinese population. Medicine (United States), 2020, 99, e18793.	0.4	35
50	Critical Closing Pressure During Intracranial Pressure Plateau Waves. Neurocritical Care, 2013, 18, 341-348.	1.2	34
51	A combination of genetic, molecular and haemodynamic risk factors contributes to the formation, enlargement and rupture of brain aneurysms. Journal of Clinical Neuroscience, 2013, 20, 912-918.	0.8	34
52	Pulsatile stretch as a novel modulator of amyloid precursor protein processing and associated inflammatory markers in human cerebral endothelial cells. Scientific Reports, 2018, 8, 1689.	1.6	33
53	Central aortic blood pressure estimation in children and adolescents: results of the KidCoreBP study. Journal of Hypertension, 2020, 38, 821-828.	0.3	33
54	Blood pressure waveform analysis by means of wavelet transform. Medical and Biological Engineering and Computing, 2009, 47, 165-173.	1.6	32

#	Article	IF	Citations
55	Dynamic Association between Intraocular Pressure and Spontaneous Pulsations of Retinal Veins. Current Eye Research, 2011, 36, 53-59.	0.7	32
56	Central Aortic Blood Pressure and Cardiovascular Risk. Hypertension, 2008, 51, 1470-1471.	1.3	31
57	Angiotensin-converting enzyme inhibitor limits pulse-wave velocity and aortic calcification in a rat model of cystic renal disease. American Journal of Physiology - Renal Physiology, 2011, 301, F959-F966.	1.3	30
58	Cuffless Estimation of Blood Pressure: Importance of Variability in Blood Pressure Dependence of Arterial Stiffness Across Individuals and Measurement Sites. IEEE Transactions on Biomedical Engineering, 2018, 65, 2377-2383.	2.5	30
59	Central Blood Pressure, Arterial Waveform Analysis, and Vascular Risk Factors in Glaucoma. Journal of Glaucoma, 2013, 22, 98-103.	0.8	28
60	Effect of Bifurcation Angle Configuration and Ratio of Daughter Diameters on Hemodynamics of Bifurcation Aneurysms. American Journal of Neuroradiology, 2013, 34, 391-396.	1.2	28
61	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.	0.9	28
62	Estimation of pressure pulse amplification between aorta and brachial artery using stepwise multiple regression models. Physiological Measurement, 2004, 25, 879-889.	1.2	27
63	Progressive changes of elastic moduli of arterial wall and atherosclerotic plaque components during plaque development in human coronary arteries. Medical and Biological Engineering and Computing, 2019, 57, 731-740.	1.6	27
64	Image segmentation methods for intracranial aneurysm haemodynamic research. Journal of Biomechanics, 2014, 47, 1014-1019.	0.9	24
65	Measuring Arterial Stiffness in Animal Experimental Studies. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1068-1077.	1.1	24
66	Vascular Ageing in Youth: A Call to Action. Heart Lung and Circulation, 2021, 30, 1613-1626.	0.2	24
67	Input impedance of distributed arterial structures as used in investigations of underlying concepts in arterial haemodynamics. Medical and Biological Engineering and Computing, 2009, 47, 143-151.	1.6	23
68	Persistent effect of early, brief angiotensin-converting enzyme inhibition on segmental pressure dependency of aortic stiffness in spontaneously hypertensive rats. Journal of Hypertension, 2012, 30, 1782-1790.	0.3	23
69	Direct means of obtaining CAVI₀â€"a corrected cardio-ankle vascular stiffness index (CAVI)â€"from conventional CAVI measurements or their underlying variables. Physiological Measurement, 2017, 38, N128-N137.	1.2	23
70	Principles of cerebral hemodynamics when intracranial pressure is raised. Journal of Hypertension, 2015, 33, 1233-1241.	0.3	22
71	Influence of dietary nitrate supplementation on lung function and exercise gas exchange in COPD patients. Nitric Oxide - Biology and Chemistry, 2018, 76, 53-61.	1.2	22
72	Cardiovascular responses to short-term head-down positioning in healthy young and older adults. Physiotherapy Research International, 2005, 10, 32-47.	0.7	21

#	Article	IF	Citations
73	Central blood pressure in children and adolescents: non-invasive development and testing of novel transfer functions. Journal of Human Hypertension, 2017, 31, 831-837.	1.0	21
74	Normal cerebral vascular pulsations in humans. Journal of Hypertension, 2017, 35, 2245-2256.	0.3	21
75	Use of arterial transfer function for the derivation of aortic waveform characteristics. Journal of Hypertension, 2004, 22, 431-432.	0.3	20
76	Improved Measurement of Blood Pressure by Extraction of Characteristic Features from the Cuff Oscillometric Waveform. Sensors, 2015, 15, 14142-14161.	2.1	20
77	Mechanism underlying the heart rate dependency of wave reflection in the aorta: a numerical simulation. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H443-H451.	1.5	20
78	Central aortic pressure improves prediction of cardiovascular events compared to peripheral blood pressure in short-term follow-up of a hypertensive cohort. Clinical and Experimental Hypertension, 2020, 42, 16-23.	0.5	20
79	Arterial hemodynamics and wave analysis in the frequency and time domains: an evaluation of the paradigms. Medical and Biological Engineering and Computing, 2009, 47, 107-110.	1.6	19
80	Pressure dependency of aortic pulse wave velocity in vivo is not affected by vasoactive substances that alter aortic wall tension ex vivo. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1221-H1228.	1.5	19
81	Magnetic resonance and applanation tonometry for noninvasive determination of left ventricular load and ventricular vascular coupling in the time and frequency domain. Journal of Hypertension, 2016, 34, 1099-1108.	0.3	19
82	Relationship Between Brachialâ€Ankle Pulse Wave Velocity and Incident Hypertension According to 2017 ACC/AHA High Blood Pressure Guidelines. Journal of the American Heart Association, 2019, 8, e013019.	1.6	19
83	Arterial Pulse Wave Velocity and Heart Rate. Hypertension, 2002, 40, e8-9; author reply e8-9.	1.3	18
84	REGULATION OF ARTERIAL STIFFNESS: CELLULAR, MOLECULAR AND NEUROGENIC MECHANISMSâ˜†. Artery Research, 2011, 5, 122.	0.3	18
85	Hemodynamic Interactions in the Eye: A Review. Ophthalmologica, 2012, 228, 214-221.	1.0	18
86	Determination of central blood pressure by a noninvasive method (brachial BP and QKD interval). Journal of Hypertension, 2012, 30, 1533-1539.	0.3	18
87	Influence of resting lung diffusion on exercise capacity in patients with COPD. BMC Pulmonary Medicine, 2017, 17, 117.	0.8	18
88	N-Point Moving Average: A Special Generalized Transfer Function Method for Estimation of Central Aortic Blood Pressure. IEEE Transactions on Biomedical Engineering, 2018, 65, 1226-1234.	2.5	18
89	Angiotensin II receptor blocker telmisartan attenuates aortic stiffening and remodelling in STZ-diabetic rats. Diabetology and Metabolic Syndrome, 2014, 6, 57.	1.2	17
90	Cerebral hemodynamics and the role of transcranial Doppler applications in the assessment and management of cerebral arteriovenous malformations. Journal of Clinical Neuroscience, 2016, 30, 24-30.	0.8	17

#	Article	IF	Citations
91	Effects of pacing modality on noninvasive assessment of heart rate dependency of indices of large artery function. Journal of Applied Physiology, 2016, 121, 771-780.	1.2	17
92	Estimation of aortic systolic blood pressure from radial systolic and diastolic blood pressures alone using artificial neural networks. Journal of Hypertension, 2017, 35, 1577-1585.	0.3	17
93	Ambulatory blood pressure and arterial stiffness webâ€based telemonitoring in patients at cardiovascular risk. First results of the VASOTENS (Vascular health ASsessment Of The hypertENSive) Tj ETQq1 1 0.784314 rgBT /Ove	1.6	17
94	Easy conversion of cardio-ankle vascular index into CAVI0. Journal of Hypertension, 2019, 37, 1913-1914.	0.3	17
95	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.	0.3	16
96	Vascular Health Assessment of The Hypertensive Patients (VASOTENS) Registry: Study Protocol of an International, Web-Based Telemonitoring Registry for Ambulatory Blood Pressure and Arterial Stiffness. JMIR Research Protocols, 2016, 5, e137.	0.5	16
97	Non-invasive Estimation of Cerebrospinal Fluid Pressure Waveforms by Means of Retinal Venous Pulsatility and Central Aortic Blood Pressure. Annals of Biomedical Engineering, 2012, 40, 1940-1948.	1.3	15
98	Opposing changes in thoracic and abdominal aortic biomechanical properties in rodent models of vascular calcification and hypertension. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H143-H151.	1.5	15
99	Characterizing dynamic properties of retinal vessels in the rat eye using high speed imaging. Microvascular Research, 2014, 92, 56-61.	1.1	15
100	Prevention of cardiac hypertrophy by the use of a glycosphingolipid synthesis inhibitor in ApoEâ^'/â^' mice. Biochemical and Biophysical Research Communications, 2015, 465, 159-164.	1.0	15
101	A novel method of artery stenosis diagnosis using transfer function and support vector machine based on transmission line model: A numerical simulation and validation study. Computer Methods and Programs in Biomedicine, 2016, 129, 71-81.	2.6	14
102	Effects of cardiac timing and peripheral resistance on measurement of pulse wave velocity for assessment of arterial stiffness. Scientific Reports, 2017, 7, 5990.	1.6	14
103	Mechanical Characterization of the Lamellar Structure of Human Abdominal Aorta in the Development of Atherosclerosis: An Atomic Force Microscopy Study. Cardiovascular Engineering and Technology, 2019, 10, 181-192.	0.7	14
104	Does Replacing Sodium Excreted in Sweat Attenuate the Health Benefits of Physical Activity?. International Journal of Sport Nutrition and Exercise Metabolism, 2016, 26, 377-389.	1.0	13
105	Improved assessment of arterial stiffness using corrected cardio-ankle vascular index (CAVI₀) in overweight adolescents with white-coat and essential hypertension. Scandinavian Journal of Clinical and Laboratory Investigation, 2017, 77, 665-672.	0.6	13
106	Brachialâ€Ankle Pulse Wave Velocity Versus Its Stiffness Index Î²â€Transformed Value as Risk Marker for Cardiovascular Disease. Journal of the American Heart Association, 2019, 8, e013004.	1.6	13
107	Comparison Between Invasive and Noninvasive Methods to Estimate Subendocardial Oxygen Supply and Demand Imbalance. Journal of the American Heart Association, 2021, 10, e021207.	1.6	13
108	Intracranial Pressure Waveforms are More Closely Related to Central Aortic than Radial Pressure Waveforms: Implications for Pathophysiology and Therapy. Acta Neurochirurgica Supplementum, 2016, 122, 61-64.	0.5	13

#	Article	IF	Citations
109	Baroreflex function: improved characterization by use of central vascular parameters compared with peripheral pressure. Journal of Hypertension, 2002, 20, 1067-1070.	0.3	12
110	A modified postural drainage position produces less cardiovascular stress than a head-down position in patients with severe heart disease: A quasi-experimental study. Australian Journal of Physiotherapy, 2006, 52, 201-209.	0.9	12
111	Arterial transfer functions: background, applications and reservations. Journal of Hypertension, 2008, 26, 8-10.	0.3	12
112	Robust Aortic Valve Non-Opening Detection for Different Cardiac Conditions. Artificial Organs, 2014, 38, E57-E67.	1.0	12
113	A growth model of saccular aneurysms based on hemodynamic and morphologic discriminant parameters for risk of rupture. Journal of Clinical Neuroscience, 2014, 21, 1514-1519.	0.8	12
114	Female Gender Is Associated with Higher Susceptibility of Weight Induced Arterial Stiffening and Rise in Blood Pressure. Journal of Clinical Medicine, 2021, 10, 3479.	1.0	12
115	Minimising retinal vessel artefacts in optical coherence tomography images. Computer Methods and Programs in Biomedicine, 2011, 104, 206-211.	2.6	11
116	The ebbing tide of the reservoir-wave model. Journal of Hypertension, 2015, 33, 461-464.	0.3	11
117	Characterisation of cardiac autonomic function in multiple sclerosis based on spontaneous changes of heart rate and blood pressure. Multiple Sclerosis and Related Disorders, 2018, 22, 120-127.	0.9	11
118	Pediatric reference values for arterial stiffness parameters cardio-ankle vascular index and CAVI0. Journal of the American Society of Hypertension, 2018, 12, e35-e43.	2.3	11
119	Pulse wave velocity is decreased with obesity in an elderly Chinese population. Journal of Clinical Hypertension, 2019, 21, 1379-1385.	1.0	11
120	Are Korotkoff Sounds Reliable Markers for Accurate Estimation of Systolic and Diastolic Pressure Using Brachial Cuff Sphygmomanometry?. IEEE Transactions on Biomedical Engineering, 2021, 68, 3593-3601.	2.5	11
121	Central Aortic Blood Pressure and Management of Hypertension. Hypertension, 2013, 62, 1005-1007.	1.3	10
122	Effects of gravity-induced upper-limb blood pressure changes on wave transmission and arterial radial waveform. Journal of Hypertension, 2016, 34, 1091-1098.	0.3	10
123	Long-Term Angiotensin II Receptor Blockade Limits Hypertension, Aortic Dysfunction, and Structural Remodeling in a Rat Model of Chronic Kidney Disease. Journal of Vascular Research, 2016, 53, 216-229.	0.6	10
124	Age-Specific Acute Changes in Carotidâ€“Femoral Pulse Wave Velocity With Head-up Tilt. American Journal of Hypertension, 2020, 33, 1112-1118.	1.0	10
125	Challenges Presented by Cuffless Measurement of Blood Pressure if Adopted for Diagnosis and Treatment of Hypertension. Pulse, 2022, 10, 34-45.	0.9	10
126	Automated â€˜oscillometricâ€™ blood pressure measuring devices: how they work and what they measure. Journal of Human Hypertension, 2023, 37, 93-100.	1.0	10

#	Article	IF	Citations
127	Reflecting on posture. Journal of Hypertension, 2011, 29, 655-657.	0.3	9
128	Determination of central blood pressure by a noninvasive method (brachial blood pressure and QKD) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.3	9
129	Abnormalities associated with progressive aortic vascular dysfunction in chronic kidney disease. Frontiers in Physiology, 2015, 6, 150.	1.3	9
130	MODELING AND HEMODYNAMIC SIMULATION OF HUMAN ARTERIAL STENOSIS VIA TRANSMISSION LINE MODEL. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650067.	0.3	9
131	Progressive vascular remodelling, endothelial dysfunction and stiffness in mesenteric resistance arteries in a rodent model of chronic kidney disease. Vascular Pharmacology, 2016, 81, 42-52.	1.0	9
132	Reply. Journal of Hypertension, 2017, 35, 1523-1525.	0.3	9
133	Alveolar–capillary reserve during exercise in patients with chronic obstructive pulmonary disease. International Journal of COPD, 2017, Volume 12, 3115-3122.	0.9	9
134	Systolic time intervals assessed from analysis of the carotid pressure waveform. Physiological Measurement, 2018, 39, 084002.	1.2	9
135	The effect of interval sprinting exercise on vascular function and aerobic fitness of postâ€menopausal women. Scandinavian Journal of Medicine and Science in Sports, 2020, 30, 312-321.	1.3	9
136	Residual stress distribution in a lamellar model of the arterial wall. Journal of Medical Engineering and Technology, 2010, 34, 422-428.	0.8	8
137	Evaluation of Suction Detection During Different Pumping States in an Implantable Rotary Blood Pump. Artificial Organs, 2013, 37, E145-54.	1.0	8
138	Development of Image Segmentation Methods for Intracranial Aneurysms. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-7.	0.7	8
139	Blood pressure phenotypes in youth. Journal of Hypertension, 2016, 34, 1254-1256.	0.3	8
140	Relationship between arterial stiffness and chronic kidney disease in patients with primary hypertension. Journal of Human Hypertension, 2020, 34, 577-585.	1.0	8
141	The prevalence and impact of orthostatic intolerance in young women across the hypermobility spectrum. American Journal of Medical Genetics, Part A, 2022, 188, 1761-1776.	0.7	8
142	Estimation of cardiac stroke volume from radial pulse waveform by artificial neural network. Computer Methods and Programs in Biomedicine, 2022, 218, 106738.	2.6	8
143	Use of Arterial Transfer Functions for the Derivation of Central Aortic Waveform Characteristics in Subjects With Type 2 Diabetes and Cardiovascular Disease: Response to Hope et al.. Diabetes Care, 2004, 27, 2564-2565.	4.3	7
144	Letter: Aldosterone Antagonism and Arterial Stiffness. Hypertension, 2004, 43, .	1.3	7

#	Article	IF	Citations
145	Changes in the Central Arterial Pressure Pulse With Aging. Journal of the American College of Cardiology, 2010, 55, 2183.	1.2	7
146	Simulation of reduction of proximal aortic stiffness by an elastic wrap and effects on pulse pressure. , 2012, 2012, 657-60.		7
147	Reflections on determinants of augmentation index. Journal of Hypertension, 2012, 30, 267-268.	0.3	7
148	Validation of non-invasive central blood pressure devices: Artery society task force (abridged) consensus statement on protocol standardization. Artery Research, 2017, 20, 35.	0.3	7
149	Estimation of Pulse Transit Time From Radial Pressure Waveform Alone by Artificial Neural Network. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1140-1147.	3.9	7
150	Effects of instructed meditation augmented by computer-rendered artificial virtual environment on heart rate variability. , 2018, 2018, 2768-2771.		7
151	Change in Pulsatile Cerebral Arterial Pressure and Flow Waves as a Therapeutic Strategy?. Acta Neurochirurgica Supplementum, 2016, 122, 167-170.	0.5	7
152	Salt sensitivity and arterial structure and function. Journal of Hypertension, 2003, 21, 251-253.	0.3	6
153	Long-term pressure monitoring with arterial applanation tonometry: A non-invasive alternative during clinical intervention?. Technology and Health Care, 2008, 16, 183-193.	0.5	6
154	Lumped parameter model of cardiovascular-respiratory interaction. , 2013, 2013, 473-6.		6
155	Importance of Pressure Pulse Amplification in the Association of Resting Heart Rate and Arterial Stiffness. Hypertension, 2013, 62, e46.	1.3	6
156	Effect of large arteries on blood pressure variability. , 2013, 2013, 4078-81.		6
157	Sensitivity of Video-Based Pulse Arrival Time to Dynamic Blood Pressure Changes. , 2018, 2018, 3639-3641.		6
158	Effect of increasing heart rate on finger photoplethysmography fitness index (PPGF) in subjects with implanted cardiac pacemakers. PLoS ONE, 2018, 13, e0207301.	1.1	6
159	Assessment of Central Arterial Hemodynamics in Children: Comparison of Noninvasive and Invasive Measurements. American Journal of Hypertension, 2021, 34, 163-171.	1.0	6
160	Multi-Site Pulse Transit Times, Beat-to-Beat Blood Pressure, and Isovolumic Contraction Time at Rest and Under Stressors. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 561-571.	3.9	6
161	Age-Related Changes in the Mechanical Properties of Large Arteries. Engineering Materials and Processes, 2015, , 37-74.	0.2	6
162	Measuring Ascending Aortic Stiffness In Vivo in Mice Using Ultrasound. Journal of Visualized Experiments, 2014, , .	0.2	6

#	Article	IF	Citations
163	Association between Brachial-Ankle Pulse Wave Velocity as a Marker of Arterial Stiffness and Body Mass Index in a Chinese Population. Journal of Cardiovascular Development and Disease, 2022, 9, 75.	0.8	6
164	Blood pressure-independent neurogenic effect on conductance and resistance vessels: a consideration for cuffless blood pressure measurement?. , 2021, 2021, 7485-7488.		6
165	On Tubes, Strings, and Resonance in the Arterial Systemâ€"What Makes the Beat Go on?. IEEE Transactions on Biomedical Engineering, 2004, 51, 196-197.	2.5	5
166	Hemodynamic models of cerebral aneurysms for assessment of effect of vessel geometry on risk of rupture. , 2009, 2009, 2351-3.		5
167	Non-invasive cerebrospinal fluid pressure estimation using multi-layer perceptron neural networks. , 2012, 2012, 5278-81.		5
168	Spontaneous retinal venous pulsatility in patients with cyanotic congenital heart disease. Heart and Vessels, 2012, 27, 618-623.	0.5	5
169	A simplified method for quantifying the subject-specific relationship between blood pressure and carotid-femoral pulse wave velocity. , 2015, 2015, 5708-11.		5
170	Reply. Journal of Hypertension, 2018, 36, 960-962.	0.3	5
171	Does increase in arterial stiffness and wave reflection precede development of placental-mediated complications in pregnancy?. Journal of Hypertension, 2018, 36, 1029-1031.	0.3	5
172	Osteoporosis is inversely associated with arterial stiffness in the elderly: An investigation using the Osteoporosis Selfâ€assessment Tool for Asians index in an elderly Chinese cohort. Journal of Clinical Hypertension, 2019, 21, 405-411.	1.0	5
173	Validation of a cuff-based device for measuring carotid-femoral pulse wave velocity in children and adolescents. Journal of Human Hypertension, 2020, 34, 311-318.	1.0	5
174	Prediction of incident hypertension with the coronary artery calcium score based on the 2017 ACC/AHA high blood pressure guidelines. Hypertension Research, 2020, 43, 1293-1300.	1.5	5
175	Evaluation of Brain Extracranial-to-Intracranial (EC-IC) Bypass Treatments by Using Computational Hemodynamic Technology. IFMBE Proceedings, 2010, , 1542-1545.	0.2	5
176	The Human Systemic and Cerebral Circulations: Contrasts in Structure and Function. Artery Research, 2020, 26, 197-211.	0.3	5
177	Dynamic Stress Analysis of the Arterial Wall Utilizing Physiological Pressure Waveforms. American Journal of Applied Sciences, 2008, 5, 1285-1290.	0.1	5
178	Pulse pressure and inflammatory markers. Journal of Hypertension, 2004, 22, 247-249.	0.3	4
179	Flow-mediated dilatation as a biomarker for cardiovascular risk in hypertension. Journal of Hypertension, 2008, 26, 1546-1547.	0.3	4
180	Visualization of orbital flow by means of phase contrast MRI. , 2012, 2012, 3384-7.		4

#	Article	IF	Citations
181	Heart rate variability and stroke. Journal of Hypertension, 2013, 31, 1529-1531.	0.3	4
182	Association of Haemodynamic Indices of Central and Peripheral Pressure with Subclinical Target Organ Damage. Pulse, 2017, 5, 133-143.	0.9	4
183	P49 QUANTIFYING WAVE REFLECTION IN CHILDREN: INVASIVE VS NON-INVASIVE CENTRAL AUGMENTATION INDEX AND REFLECTION MAGNITUDE AND THEIR ASSOCIATION WITH LEFT VENTRICULAR MASS. Artery Research, 2018, 24, 92.	0.3	4
184	Multi-tissue lipotoxicity caused by high-fat diet feeding is attenuated by the supplementation of Korean red ginseng in mice. Molecular and Cellular Toxicology, 2020, 16, 39-50.	0.8	4
185	Relationship between heart rate and central aortic blood pressure: implications for assessment and treatment of isolated systolic hypertension in the young. Minerva Medica, 2021, , .	0.3	4
186	Central Pulsatile Pressure and Flow Relationship in the Time and Frequency Domain to Characterise Hydraulic Input to the Brain and Cerebral Vascular Impedance. Acta Neurochirurgica Supplementum, 2016, 122, 307-311.	0.5	4
187	Analysis of the Radial Pulse Wave and its Clinical Applications: A Survey. IEEE Access, 2021, 9, 157940-157959.	2.6	4
188	Ultrasound-based method for individualized estimation of central aortic blood pressure from flow velocity and diameter. Computers in Biology and Medicine, 2022, 143, 105254.	3.9	4
189	Comparison of Risk of Target Organ Damage in Different Phenotypes of Arterial Stiffness and Central Aortic Blood Pressure. Frontiers in Cardiovascular Medicine, 2022, 9, 839875.	1.1	4
190	Frequency dependent transmission characteristics between arterial blood pressure and intracranial pressure in rats. , 2012, 2012, 5614-7.		3
191	Application of cardiovascular models in comparative physiology and blood pressure variability. , 2013, 2013, 217-20.		3
192	Dependence of arterial stiffness on pressure quantified in the realm of the cardiac cycle. Journal of Hypertension, 2015, 33, 257-259.	0.3	3
193	Improving the quality of the evidence â€“ The necessity to lead by example. Journal of Clinical Neuroscience, 2017, 46, 165-166.	0.8	3
194	PWPSim: A new simulation tool of pulse wave propagation in the human arterial tree. , 2017, 2017, 3672-3675.		3
195	Pathway for Elimination of Distance Measurement in Studies of Pulse Wave Velocity. Hypertension, 2018, 71, 819-821.	1.3	3
196	Clinical study of a chestâ€based cuffless blood pressure monitoring system. Medical Devices & Sensors, 2020, 3, e10091.	2.7	3
197	Accuracy of central blood pressure by Mobil-O-Graph in children and adolescents. Journal of Hypertension, 2020, 38, 1388-1389.	0.3	3
198	Estimation of aortic pulse wave velocity based on waveform decomposition of central aortic pressure waveform. Physiological Measurement, 2021, 42, .	1.2	3

#	Article	IF	Citations
199	The Association between Retinal and Central Pulse Wave Velocity in the Elderly. Artery Research, 2020, 26, 148-153.	0.3	3
200	Blood Pressure Measurement Methodologies: Present Status and Future Prospects. Hypertension Journal, 2020, 6, 109-116.	0.1	3
201	Contactless video-based photoplethysmography technique comparison investigating pulse transit time estimation of arterial blood pressure. , 2021, 2021, 5650-5653.		3
202	An investigation of the individualized, two-point calibration method for cuffless blood pressure estimation using pulse arrival time: an historical perspective using the Casio BP-100 digital watch. , 2021, 2021, 7493-7496.		3
203	Weight Loss, Blood Pressure Reduction, and Aortic Stiffness: An Old Dilemma Revisited. Obesity, 2011, 19, 468-468.	1.5	2
204	Effects of pressure-dependent segmental arterial compliance and postural changes on pulse wave transmission in an arterial model of the human upper limb. , 2011, 2011, 6450-3.		2
205	Improvements on cuff measurement of arterial pressure. Journal of Hypertension, 2013, 31, 251-252.	0.3	2
206	Potential effects of systematic errors in intraocular pressure measurements on screening for ocular hypertension. Eye, 2013, 27, 502-506.	1.1	2
207	Assessment of baroreflex sensitivity by continuous noninvasive monitoring of peripheral and central aortic pressure. , 2014, 2014, 2940-3.		2
208	Impact of new hypertension guidelines on target organ damage screening in a Shanghai communityâ€dwelling population. Journal of Clinical Hypertension, 2019, 21, 1450-1455.	1.0	2
209	Reply to Comments: Using the Cardio-Ankle Vascular Index (CAVI) or the Mathematical Correction Form (CAVI0) in Clinical Practice. International Journal of Molecular Sciences, 2020, 21, 2647.	1.8	2
210	Non-invasive Estimation of Intracranial Pressure by Means of Retinal Venous Pulsatility. IFMBE Proceedings, 2010, , 81-84.	0.2	2
211	Effects of Acute and Chronic Biomechanical Strain on Human Cerebral Endothelial Cells in Altering their Proteome Profile. Current Proteomics, 2017, 14, .	0.1	2
212	Interarm Differences in Brachial Blood Pressure and their Effect on the Derivation on Central Aortic Blood Pressure. Artery Research, 2020, 26, 89-96.	0.3	2
213	Long-term pressure monitoring with arterial applanation tonometry: a non-invasive alternative during clinical intervention?. Technology and Health Care, 2008, 16, 183-93.	0.5	2
214	Relationship between Arterial Stiffness and Renal Function Determined by Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) and Modification of Diet in Renal Disease (MDRD) Equations in a Chinese Cohort Undergoing Health Examination. BioMed Research International, 2022, 2022, 1-8.	0.9	2
215	Reflections on systolic and diastolic augmentation. Journal of Hypertension, 2013, 31, 32-34.	0.3	1
216	Haemoglobin. Journal of Hypertension, 2013, 31, 661-662.	0.3	1

#	Article	IF	Citations
217	Field stimulation of the carotid baroreceptor complex does not compromise baroreceptor function in spontaneously hypertensive rats. , 2014, 2014, 2944-7.		1
218	Method of calibration of measurement of central aortic pressure and prediction of all-cause mortality in chronic kidney disease. Journal of Hypertension, 2015, 33, 1761-1763.	0.3	1
219	Noninvasive characterization of the effect of aortic impedance on left ventricular structure. Journal of Hypertension, 2015, 33, 63-65.	0.3	1
220	Older age is associated with greater central aortic blood pressure following the exercise stress test in subjects with similar brachial systolic blood pressure. Heart and Vessels, 2016, 31, 1354-1360.	0.5	1
221	Of cats and dogs and matters of the heart. Journal of Hypertension, 2017, 35, 718-720.	0.3	1
222	Increased arterial stiffness does not respond to renal denervation in an animal model of secondary hypertension. , 2017, 2017, 258-261.		1
223	3.5 HEART RATE DEPENDENCE OF REGIONAL AND LOCAL AORTIC PULSE WAVE VELOCITY IN RATS AS A FUNCTION OF BLOOD PRESSURE. Artery Research, 2017, 20, 54.	0.3	1
224	Vascular biomarker measurement using wrist-worn tonometer technology. Journal of Hypertension, 2018, 36, 2138-2139.	0.3	1
225	Of Machines and Men: Intelligent Diagnosis and the Shape of Things to Come. Current Hypertension Reports, 2020, 22, 9.	1.5	1
226	Heart Rate, Synchrony and Arterial Hemodynamics. , 2014, , 267-279.		1
227	Cuffless Blood Pressure Monitoring and theÂAdvent of aÂNew Era in Medicine and Society. , 2019, , 1-7.		1
228	Disparate Associations of 24-h Central Aortic and Brachial Cuff Blood Pressure With Hypertension-Mediated Organ Damage and Cardiovascular Risk. Frontiers in Cardiovascular Medicine, 2022, 9, 795509.	1.1	1
229	Response to Modeled Decomposition of Aortic Pressure Waveforms Does Not Provide Estimates for Pulse Wave Velocity. Hypertension, 2008, 51, .	1.3	0
230	Response to Central Pressure and Pulse Wave Amplification in the Upper Limb. Hypertension, 2010, 55, .	1.3	0
231	Assessment of hemodynamic load components affecting optimization of cardiac resynchronization therapy by lumped parameter mode. , 2012, 2012, 6661-4.		0
232	Hemodynamics changes with acute carotid baroreceptor field stimulation are age-dependent in normotensive rats*. , 2015, 2015, 2051-4.		0
233	Microvascular function. Journal of Hypertension, 2015, 33, 928-930.	0.3	0
234	9.3 FUNCTIONAL AORTIC CHANGES INDUCED BY A HIGH SALT DIET. Artery Research, 2016, 16, 68.	0.3	0

#	Article	IF	Citations
235	Cardiovascular Effects of Long-Term Vitamin D Supplementation: Summarised by Many but Studied by Few. Pulse, 2016, 4, 172-174.	0.9	0
236	Indices of central aortic pressure waveform and ventricular function. Journal of Hypertension, 2016, 34, 634-636.	0.3	0
237	Heart and kidneys. Journal of Hypertension, 2017, 35, 243-245.	0.3	0
238	Comparison of frequency-based techniques for assessment of baroreceptor sensitivity and heart rate variability. , 2017, 2017, 3985-3988.		0
239	Electrical Activity of the Heart Under Pressure. American Journal of Hypertension, 2018, 31, 166-168.	1.0	0
240	Ultrasound measurement of central pulse pressure from carotid diameter. Journal of Hypertension, 2018, 36, 2310-2311.	0.3	0
241	Transfer Function Between Intracranial Pressure and Aortic Blood Pressure and Carotid Blood Flow. , 2018, 2018, 3169-3172.		0
242	The Hidden Diagnostic Information of the Heart Rhythm Revealed by Entropy Proportions. Pulse, 2021, 8, 1-3.	0.9	0
243	Fatty Liver Index is Positively Associated with Arterial Stiffness in a Chinese Cohort Undergoing Health Assessment. Artery Research, 2021, 27, 151-158.	0.3	0
244	Pulse Pressure Amplification and Arterial Stiffness in Middle Age. , 2014, , 281-295.		0
245	Serum 25-Hydroxyvitamin D Deficiency and Insufficiency are Associated with Ankle-Brachial Index but not Arterial Stiffness in an Elderly Community-dwelling Chinese Population. Artery Research, 2019, 25, 113-119.	0.3	0
246	Obstructive Hydrocephalus Due to Unruptured Brain Arteriovenous Malformation: Demonstrating Transcranial Color Duplex Confirmation of Cerebral Venous Hemodynamic Alterations and Color Duplex Ultrasound Confirmation of Shunt Patency. Cureus, 2019, 11, e6181.	0.2	0
247	Effect of Body Habitus and Heart Rate on Accuracy of Aortic-Radial Transfer Functions for Predicting Central Hemodynamic Indices in Growing Children. Artery Research, 2020, 26, 242-249.	0.3	0
248	Pressure Dependency of Retinal Arterial Pulse Wave Velocity in the Rat. Artery Research, 2020, 26, 27-33.	0.3	0
249	The Severity of Obstructive Sleep Apnea Increases the Risk of Arteriosclerosis. Reviews in Cardiovascular Medicine, 2022, 23, 094.	0.5	0
250	Significant venous flow alterations following brain arteriovenous malformation Surgery: Assessment by transcranial colour duplex. Journal of Clinical Neuroscience, 2022, 99, 268-274.	0.8	0
251	Basic principles that determine relationships between pulsatile hemodynamic phenomena and function of elastic vessels. , 2022, , 3-26.		0