

Alberto P Avolio

List of Publications by Year in descending order

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Version: 2024-02-01

251
papers

8,048
citations

81434

41
h-index

68831

81
g-index

253
all docs

253
docs citations

253
times ranked

9986
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated "oscillometric"™ blood pressure measuring devices: how they work and what they measure. <i>Journal of Human Hypertension</i> , 2023, 37, 93-100.	1.0	10
2	Multi-Site Pulse Transit Times, Beat-to-Beat Blood Pressure, and Isovolumic Contraction Time at Rest and Under Stressors. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 561-571.	3.9	6
3	Ultrasound-based method for individualized estimation of central aortic blood pressure from flow velocity and diameter. <i>Computers in Biology and Medicine</i> , 2022, 143, 105254.	3.9	4
4	Disparate Associations of 24-h Central Aortic and Brachial Cuff Blood Pressure With Hypertension-Mediated Organ Damage and Cardiovascular Risk. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 795509.	1.1	1
5	The prevalence and impact of orthostatic intolerance in young women across the hypermobility spectrum. <i>American Journal of Medical Genetics, Part A</i> , 2022, 188, 1761-1776.	0.7	8
6	Association between Brachial-Ankle Pulse Wave Velocity as a Marker of Arterial Stiffness and Body Mass Index in a Chinese Population. <i>Journal of Cardiovascular Development and Disease</i> , 2022, 9, 75.	0.8	6
7	The Severity of Obstructive Sleep Apnea Increases the Risk of Arteriosclerosis. <i>Reviews in Cardiovascular Medicine</i> , 2022, 23, 094.	0.5	0
8	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. <i>BioMed Research International</i> , 2022, 2022, 1-8.	0.9	2
9	Cuffless Blood Pressure Measurement. <i>Annual Review of Biomedical Engineering</i> , 2022, 24, 203-230.	5.7	36
10	Significant venous flow alterations following brain arteriovenous malformation Surgery: Assessment by transcranial colour duplex. <i>Journal of Clinical Neuroscience</i> , 2022, 99, 268-274.	0.8	0
11	Estimation of cardiac stroke volume from radial pulse waveform by artificial neural network. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 218, 106738.	2.6	8
12	Basic principles that determine relationships between pulsatile hemodynamic phenomena and function of elastic vessels. , 2022, , 3-26.		0
13	Comparison of Risk of Target Organ Damage in Different Phenotypes of Arterial Stiffness and Central Aortic Blood Pressure. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 839875.	1.1	4
14	Challenges Presented by Cuffless Measurement of Blood Pressure if Adopted for Diagnosis and Treatment of Hypertension. <i>Pulse</i> , 2022, 10, 34-45.	0.9	10
15	Cuffless blood pressure measuring devices: review and statement by the European Society of Hypertension Working Group on Blood Pressure Monitoring and Cardiovascular Variability. <i>Journal of Hypertension</i> , 2022, 40, 1449-1460.	0.3	65
16	Assessment of Central Arterial Hemodynamics in Children: Comparison of Noninvasive and Invasive Measurements. <i>American Journal of Hypertension</i> , 2021, 34, 163-171.	1.0	6
17	Heart rate and blood pressure dependence of aortic distensibility in rats: comparison of measured and calculated pulse wave velocity. <i>Journal of Hypertension</i> , 2021, 39, 117-126.	0.3	16
18	The Hidden Diagnostic Information of the Heart Rhythm Revealed by Entropy Proportions. <i>Pulse</i> , 2021, 8, 1-3.	0.9	0

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19	Relationship between heart rate and central aortic blood pressure: implications for assessment and treatment of isolated systolic hypertension in the young. <i>Minerva Medica</i> , 2021, , .	0.3	4
20	Female Gender Is Associated with Higher Susceptibility of Weight Induced Arterial Stiffening and Rise in Blood Pressure. <i>Journal of Clinical Medicine</i> , 2021, 10, 3479.	1.0	12
21	Comparison Between Invasive and Noninvasive Methods to Estimate Subendocardial Oxygen Supply and Demand Imbalance. <i>Journal of the American Heart Association</i> , 2021, 10, e021207.	1.6	13
22	Estimation of aortic pulse wave velocity based on waveform decomposition of central aortic pressure waveform. <i>Physiological Measurement</i> , 2021, 42, .	1.2	3
23	Evaluation of the Accuracy of Cuffless Blood Pressure Measurement Devices: Challenges and Proposals. <i>Hypertension</i> , 2021, 78, 1161-1167.	1.3	88
24	Vascular Ageing in Youth: A Call to Action. <i>Heart Lung and Circulation</i> , 2021, 30, 1613-1626.	0.2	24
25	Are Korotkoff Sounds Reliable Markers for Accurate Estimation of Systolic and Diastolic Pressure Using Brachial Cuff Sphygmomanometry?. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3593-3601.	2.5	11
26	Fatty Liver Index is Positively Associated with Arterial Stiffness in a Chinese Cohort Undergoing Health Assessment. <i>Artery Research</i> , 2021, 27, 151-158.	0.3	0
27	Analysis of the Radial Pulse Wave and its Clinical Applications: A Survey. <i>IEEE Access</i> , 2021, 9, 157940-157959.	2.6	4
28	Contactless video-based photoplethysmography technique comparison investigating pulse transit time estimation of arterial blood pressure. , 2021, 2021, 5650-5653.		3
29	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
30	Blood pressure-independent neurogenic effect on conductance and resistance vessels: a consideration for cuffless blood pressure measurement?. , 2021, 2021, 7485-7488.		6
31	Central aortic pressure improves prediction of cardiovascular events compared to peripheral blood pressure in short-term follow-up of a hypertensive cohort. <i>Clinical and Experimental Hypertension</i> , 2020, 42, 16-23.	0.5	20
32	Validation of a cuff-based device for measuring carotid-femoral pulse wave velocity in children and adolescents. <i>Journal of Human Hypertension</i> , 2020, 34, 311-318.	1.0	5
33	The effect of interval sprinting exercise on vascular function and aerobic fitness of postmenopausal women. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 312-321.	1.3	9
34	Multi-tissue lipotoxicity caused by high-fat diet feeding is attenuated by the supplementation of Korean red ginseng in mice. <i>Molecular and Cellular Toxicology</i> , 2020, 16, 39-50.	0.8	4
35	Systemic hemodynamic atherothrombotic syndrome (SHATS) – Coupling vascular disease and blood pressure variability: Proposed concept from pulse of Asia. <i>Progress in Cardiovascular Diseases</i> , 2020, 63, 22-32.	1.6	54
36	Relationship between arterial stiffness and chronic kidney disease in patients with primary hypertension. <i>Journal of Human Hypertension</i> , 2020, 34, 577-585.	1.0	8

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37	Central aortic blood pressure estimation in children and adolescents: results of the KidCoreBP study. <i>Journal of Hypertension</i> , 2020, 38, 821-828.	0.3	33
38	Age-Specific Acute Changes in Carotid-Femoral Pulse Wave Velocity With Head-up Tilt. <i>American Journal of Hypertension</i> , 2020, 33, 1112-1118.	1.0	10
39	Prediction of incident hypertension with the coronary artery calcium score based on the 2017 ACC/AHA high blood pressure guidelines. <i>Hypertension Research</i> , 2020, 43, 1293-1300.	1.5	5
40	Clinical study of a chest-based cuffless blood pressure monitoring system. <i>Medical Devices & Sensors</i> , 2020, 3, e10091.	2.7	3
41	Accuracy of central blood pressure by Mobil-O-Graph in children and adolescents. <i>Journal of Hypertension</i> , 2020, 38, 1388-1389.	0.3	3
42	Of Machines and Men: Intelligent Diagnosis and the Shape of Things to Come. <i>Current Hypertension Reports</i> , 2020, 22, 9.	1.5	1
43	Reply to Comments: Using the Cardio-Ankle Vascular Index (CAVI) or the Mathematical Correction Form (CAVIO) in Clinical Practice. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2647.	1.8	2
44	Measuring Arterial Stiffness in Animal Experimental Studies. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1068-1077.	1.1	24
45	Relationship between body mass index and arterial stiffness in a health assessment Chinese population. <i>Medicine (United States)</i> , 2020, 99, e18793.	0.4	35
46	The Association between Retinal and Central Pulse Wave Velocity in the Elderly. <i>Artery Research</i> , 2020, 26, 148-153.	0.3	3
47	The Human Systemic and Cerebral Circulations: Contrasts in Structure and Function. <i>Artery Research</i> , 2020, 26, 197-211.	0.3	5
48	Blood Pressure Measurement Methodologies: Present Status and Future Prospects. <i>Hypertension Journal</i> , 2020, 6, 109-116.	0.1	3
49	Effect of Body Habitus and Heart Rate on Accuracy of Aortic-Radial Transfer Functions for Predicting Central Hemodynamic Indices in Growing Children. <i>Artery Research</i> , 2020, 26, 242-249.	0.3	0
50	Pressure Dependency of Retinal Arterial Pulse Wave Velocity in the Rat. <i>Artery Research</i> , 2020, 26, 27-33.	0.3	0
51	Interarm Differences in Brachial Blood Pressure and their Effect on the Derivation on Central Aortic Blood Pressure. <i>Artery Research</i> , 2020, 26, 89-96.	0.3	2
52	Mechanical Characterization of the Lamellar Structure of Human Abdominal Aorta in the Development of Atherosclerosis: An Atomic Force Microscopy Study. <i>Cardiovascular Engineering and Technology</i> , 2019, 10, 181-192.	0.7	14
53	Relationship Between Brachial-Ankle Pulse Wave Velocity and Incident Hypertension According to 2017 ACC/AHA High Blood Pressure Guidelines. <i>Journal of the American Heart Association</i> , 2019, 8, e013019.	1.6	19
54	Ambulatory blood pressure and arterial stiffness web-based telemonitoring in patients at cardiovascular risk. First results of the VASOTENS (Vascular health ASsessment Of The hypertENSive) Tj ETQq0 0 0 rgt /Overlock 10 Tf		

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55	Pulse wave velocity is decreased with obesity in an elderly Chinese population. <i>Journal of Clinical Hypertension</i> , 2019, 21, 1379-1385.	1.0	11
56	Impact of new hypertension guidelines on target organ damage screening in a Shanghai community-dwelling population. <i>Journal of Clinical Hypertension</i> , 2019, 21, 1450-1455.	1.0	2
57	Noninvasive Estimation of Aortic Stiffness Through Different Approaches. <i>Hypertension</i> , 2019, 74, 117-129.	1.3	89
58	Osteoporosis is inversely associated with arterial stiffness in the elderly: An investigation using the Osteoporosis Self-assessment Tool for Asians index in an elderly Chinese cohort. <i>Journal of Clinical Hypertension</i> , 2019, 21, 405-411.	1.0	5
59	Easy conversion of cardio-ankle vascular index into CAVIO. <i>Journal of Hypertension</i> , 2019, 37, 1913-1914.	0.3	17
60	Brachial-Ankle Pulse Wave Velocity Versus Its Stiffness Index \ln -Transformed Value as Risk Marker for Cardiovascular Disease. <i>Journal of the American Heart Association</i> , 2019, 8, e013004.	1.6	13
61	Progressive changes of elastic moduli of arterial wall and atherosclerotic plaque components during plaque development in human coronary arteries. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 731-740.	1.6	27
62	Serum 25-Hydroxyvitamin D Deficiency and Insufficiency are Associated with Ankle-Brachial Index but not Arterial Stiffness in an Elderly Community-dwelling Chinese Population. <i>Artery Research</i> , 2019, 25, 113-119.	0.3	0
63	Cuffless Blood Pressure Monitoring and the Advent of a New Era in Medicine and Society. , 2019, , 1-7.		1
64	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. <i>Cureus</i> , 2019, 11, e6181.	0.2	0
65	Smooth muscle cell and arterial aging: basic and clinical aspects. <i>Cardiovascular Research</i> , 2018, 114, 513-528.	1.8	153
66	Reply. <i>Journal of Hypertension</i> , 2018, 36, 960-962.	0.3	5
67	Pulsatile stretch as a novel modulator of amyloid precursor protein processing and associated inflammatory markers in human cerebral endothelial cells. <i>Scientific Reports</i> , 2018, 8, 1689.	1.6	33
68	Characterisation of cardiac autonomic function in multiple sclerosis based on spontaneous changes of heart rate and blood pressure. <i>Multiple Sclerosis and Related Disorders</i> , 2018, 22, 120-127.	0.9	11
69	Does increase in arterial stiffness and wave reflection precede development of placental-mediated complications in pregnancy?. <i>Journal of Hypertension</i> , 2018, 36, 1029-1031.	0.3	5
70	Pathway for Elimination of Distance Measurement in Studies of Pulse Wave Velocity. <i>Hypertension</i> , 2018, 71, 819-821.	1.3	3
71	Cerebral Haemodynamics: Effects of Systemic Arterial Pulsatile Function and Hypertension. <i>Current Hypertension Reports</i> , 2018, 20, 20.	1.5	45
72	Estimation of Pulse Transit Time From Radial Pressure Waveform Alone by Artificial Neural Network. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 1140-1147.	3.9	7

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73	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
74	Isolated systolic hypertension in the young. Journal of Hypertension, 2018, 36, 1222-1236.	0.3	61
75	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
76	Electrical Activity of the Heart Under Pressure. American Journal of Hypertension, 2018, 31, 166-168.	1.0	0
77	Vascular biomarker measurement using wrist-worn tonometer technology. Journal of Hypertension, 2018, 36, 2138-2139.	0.3	1
78	Ultrasound measurement of central pulse pressure from carotid diameter. Journal of Hypertension, 2018, 36, 2310-2311.	0.3	0
79	Transfer Function Between Intracranial Pressure and Aortic Blood Pressure and Carotid Blood Flow. , 2018, 2018, 3169-3172.		0
80	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
81	Sensitivity of Video-Based Pulse Arrival Time to Dynamic Blood Pressure Changes. , 2018, 2018, 3639-3641.		6
82	Effects of instructed meditation augmented by computer-rendered artificial virtual environment on heart rate variability. , 2018, 2018, 2768-2771.		7
83	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
84	Pediatric reference values for arterial stiffness parameters cardio-ankle vascular index and CAVIO. Journal of the American Society of Hypertension, 2018, 12, e35-e43.	2.3	11
85	Systolic time intervals assessed from analysis of the carotid pressure waveform. Physiological Measurement, 2018, 39, 084002.	1.2	9
86	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
87	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
88	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
89	Effect of Heart Rate on Arterial Stiffness as Assessed by Pulse Wave Velocity. Current Hypertension Reviews, 2018, 14, 107-122.	0.5	42
90	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

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91	Validation of non-invasive central blood pressure devices: ARTERY Society task force consensus statement on protocol standardization. <i>European Heart Journal</i> , 2017, 38, 2805-2812.	1.0	175
92	Towards a consensus on the understanding and analysis of the pulse waveform: Results from the 2016 Workshop on Arterial Hemodynamics: Past, present and future. <i>Artery Research</i> , 2017, 18, 75.	0.3	44
93	Heart and kidneys. <i>Journal of Hypertension</i> , 2017, 35, 243-245.	0.3	0
94	Estimation of aortic systolic blood pressure from radial systolic and diastolic blood pressures alone using artificial neural networks. <i>Journal of Hypertension</i> , 2017, 35, 1577-1585.	0.3	17
95	Arterial viscoelasticity: role in the dependency of pulse wave velocity on heart rate in conduit arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H1185-H1194.	1.5	37
96	Improving the quality of the evidence – The necessity to lead by example. <i>Journal of Clinical Neuroscience</i> , 2017, 46, 165-166.	0.8	3
97	Central blood pressure in children and adolescents: non-invasive development and testing of novel transfer functions. <i>Journal of Human Hypertension</i> , 2017, 31, 831-837.	1.0	21
98	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 CAVIO. <i>Pulse</i> , 2017, 5, 106-114.	0.9	28
99	Direct means of obtaining CAVI – a corrected cardio-ankle vascular stiffness index (CAVI) – from conventional CAVI measurements or their underlying variables. <i>Physiological Measurement</i> , 2017, 38, N128-N137.	1.2	23
100	Effects of cardiac timing and peripheral resistance on measurement of pulse wave velocity for assessment of arterial stiffness. <i>Scientific Reports</i> , 2017, 7, 5990.	1.6	14
101	Association of Haemodynamic Indices of Central and Peripheral Pressure with Subclinical Target Organ Damage. <i>Pulse</i> , 2017, 5, 133-143.	0.9	4
102	Validation of non-invasive central blood pressure devices: Artery society task force (abridged) consensus statement on protocol standardization. <i>Artery Research</i> , 2017, 20, 35.	0.3	7
103	Normal cerebral vascular pulsations in humans. <i>Journal of Hypertension</i> , 2017, 35, 2245-2256.	0.3	21
104	Retinal vascular and structural changes are associated with amyloid burden in the elderly: ophthalmic biomarkers of preclinical Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2017, 9, 13.	3.0	88
105	Arterial stiffness index beta and cardio-ankle vascular index inherently depend on blood pressure but can be readily corrected. <i>Journal of Hypertension</i> , 2017, 35, 98-104.	0.3	107
106	Reply. <i>Journal of Hypertension</i> , 2017, 35, 1523-1525.	0.3	9
107	Of cats and dogs and matters of the heart. <i>Journal of Hypertension</i> , 2017, 35, 718-720.	0.3	1
108	Increased arterial stiffness does not respond to renal denervation in an animal model of secondary hypertension. , 2017, 2017, 258-261.		1

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109	3.5 HEART RATE DEPENDENCE OF REGIONAL AND LOCAL AORTIC PULSE WAVE VELOCITY IN RATS AS A FUNCTION OF BLOOD PRESSURE. <i>Artery Research</i> , 2017, 20, 54.	0.3	1
110	Improved assessment of arterial stiffness using corrected cardio-ankle vascular index (CAVI) in overweight adolescents with white-coat and essential hypertension. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2017, 77, 665-672.	0.6	13
111	PWPSim: A new simulation tool of pulse wave propagation in the human arterial tree. , 2017, 2017, 3672-3675.		3
112	Comparison of frequency-based techniques for assessment of baroreceptor sensitivity and heart rate variability. , 2017, 2017, 3985-3988.		0
113	Influence of resting lung diffusion on exercise capacity in patients with COPD. <i>BMC Pulmonary Medicine</i> , 2017, 17, 117.	0.8	18
114	Alveolar­–capillary reserve during exercise in patients with chronic obstructive pulmonary disease. <i>International Journal of COPD</i> , 2017, Volume 12, 3115-3122.	0.9	9
115	Effects of Acute and Chronic Biomechanical Strain on Human Cerebral Endothelial Cells in Altering their Proteome Profile. <i>Current Proteomics</i> , 2017, 14, .	0.1	2
116	Effects of gravity-induced upper-limb blood pressure changes on wave transmission and arterial radial waveform. <i>Journal of Hypertension</i> , 2016, 34, 1091-1098.	0.3	10
117	MODELING AND HEMODYNAMIC SIMULATION OF HUMAN ARTERIAL STENOSIS VIA TRANSMISSION LINE MODEL. <i>Journal of Mechanics in Medicine and Biology</i> , 2016, 16, 1650067.	0.3	9
118	9.3 FUNCTIONAL AORTIC CHANGES INDUCED BY A HIGH SALT DIET. <i>Artery Research</i> , 2016, 16, 68.	0.3	0
119	Cerebral hemodynamics and the role of transcranial Doppler applications in the assessment and management of cerebral arteriovenous malformations. <i>Journal of Clinical Neuroscience</i> , 2016, 30, 24-30.	0.8	17
120	Effects of pacing modality on noninvasive assessment of heart rate dependency of indices of large artery function. <i>Journal of Applied Physiology</i> , 2016, 121, 771-780.	1.2	17
121	Long-Term Angiotensin II Receptor Blockade Limits Hypertension, Aortic Dysfunction, and Structural Remodeling in a Rat Model of Chronic Kidney Disease. <i>Journal of Vascular Research</i> , 2016, 53, 216-229.	0.6	10
122	Does Replacing Sodium Excreted in Sweat Attenuate the Health Benefits of Physical Activity?. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2016, 26, 377-389.	1.0	13
123	Blood pressure phenotypes in youth. <i>Journal of Hypertension</i> , 2016, 34, 1254-1256.	0.3	8
124	Cardiovascular Effects of Long-Term Vitamin D Supplementation: Summarised by Many but Studied by Few. <i>Pulse</i> , 2016, 4, 172-174.	0.9	0
125	Heart Rate Dependency of Large Artery Stiffness. <i>Hypertension</i> , 2016, 68, 236-242.	1.3	79
126	Methodology and technology for peripheral and central blood pressure and blood pressure variability measurement. <i>Journal of Hypertension</i> , 2016, 34, 1665-1677.	0.3	118

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127	One protein, multiple pathologies: multifaceted involvement of amyloid β in neurodegenerative disorders of the brain and retina. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 4279-4297.	2.4	60
128	Magnetic resonance and applanation tonometry for noninvasive determination of left ventricular load and ventricular vascular coupling in the time and frequency domain. <i>Journal of Hypertension</i> , 2016, 34, 1099-1108.	0.3	19
129	Progressive vascular remodelling, endothelial dysfunction and stiffness in mesenteric resistance arteries in a rodent model of chronic kidney disease. <i>Vascular Pharmacology</i> , 2016, 81, 42-52.	1.0	9
130	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. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 129, 71-81.	2.6	14
131	Indices of central aortic pressure waveform and ventricular function. <i>Journal of Hypertension</i> , 2016, 34, 634-636.	0.3	0
132	Older age is associated with greater central aortic blood pressure following the exercise stress test in subjects with similar brachial systolic blood pressure. <i>Heart and Vessels</i> , 2016, 31, 1354-1360.	0.5	1
133	Intracranial Pressure Waveforms are More Closely Related to Central Aortic than Radial Pressure Waveforms: Implications for Pathophysiology and Therapy. <i>Acta Neurochirurgica Supplementum</i> , 2016, 122, 61-64.	0.5	13
134	Change in Pulsatile Cerebral Arterial Pressure and Flow Waves as a Therapeutic Strategy?. <i>Acta Neurochirurgica Supplementum</i> , 2016, 122, 167-170.	0.5	7
135	Central Pulsatile Pressure and Flow Relationship in the Time and Frequency Domain to Characterise Hydraulic Input to the Brain and Cerebral Vascular Impedance. <i>Acta Neurochirurgica Supplementum</i> , 2016, 122, 307-311.	0.5	4
136	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. <i>JMIR Research Protocols</i> , 2016, 5, e137.	0.5	16
137	Method of calibration of measurement of central aortic pressure and prediction of all-cause mortality in chronic kidney disease. <i>Journal of Hypertension</i> , 2015, 33, 1761-1763.	0.3	1
138	Principles of cerebral hemodynamics when intracranial pressure is raised. <i>Journal of Hypertension</i> , 2015, 33, 1233-1241.	0.3	22
139	Mechanical stretch: physiological and pathological implications for human vascular endothelial cells. <i>Vascular Cell</i> , 2015, 7, 8.	0.2	185
140	Hemodynamics changes with acute carotid baroreceptor field stimulation are age-dependent in normotensive rats*. , 2015, 2015, 2051-4.		0
141	Microvascular function. <i>Journal of Hypertension</i> , 2015, 33, 928-930.	0.3	0
142	Improved Measurement of Blood Pressure by Extraction of Characteristic Features from the Cuff Oscillometric Waveform. <i>Sensors</i> , 2015, 15, 14142-14161.	2.1	20
143	Abnormalities associated with progressive aortic vascular dysfunction in chronic kidney disease. <i>Frontiers in Physiology</i> , 2015, 6, 150.	1.3	9
144	A simplified method for quantifying the subject-specific relationship between blood pressure and carotid-femoral pulse wave velocity. , 2015, 2015, 5708-11.		5

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145	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
146	The ebbing tide of the reservoir-wave model. Journal of Hypertension, 2015, 33, 461-464.	0.3	11
147	Dependence of arterial stiffness on pressure quantified in the realm of the cardiac cycle. Journal of Hypertension, 2015, 33, 257-259.	0.3	3
148	Noninvasive characterization of the effect of aortic impedance on left ventricular structure. Journal of Hypertension, 2015, 33, 63-65.	0.3	1
149	Recommendations for Improving and Standardizing Vascular Research on Arterial Stiffness. Hypertension, 2015, 66, 698-722.	1.3	1,073
150	Prevention of cardiac hypertrophy by the use of a glycosphingolipid synthesis inhibitor in ApoE ^{-/-} mice. Biochemical and Biophysical Research Communications, 2015, 465, 159-164.	1.0	15
151	Age-Related Changes in the Mechanical Properties of Large Arteries. Engineering Materials and Processes, 2015, , 37-74.	0.2	6
152	Field stimulation of the carotid baroreceptor complex does not compromise baroreceptor function in spontaneously hypertensive rats. , 2014, 2014, 2944-7.		1
153	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
154	Inhibition of Glycosphingolipid Synthesis Ameliorates Atherosclerosis and Arterial Stiffness in Apolipoprotein E ^{-/-} Mice and Rabbits Fed a High-Fat and -Cholesterol Diet. Circulation, 2014, 129, 2403-2413.	1.6	90
155	Assessment of baroreflex sensitivity by continuous noninvasive monitoring of peripheral and central aortic pressure. , 2014, 2014, 2940-3.		2
156	Exercise, Vascular Stiffness, and Tissue Transglutaminase. Journal of the American Heart Association, 2014, 3, e000599.	1.6	64
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