Kim H Parker

List of Publications by Year
in descending order

54	2,351	304743	206112
papers	citations	22 h-index	48 g-index

54	54	54	2224
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carotid Reservoir Pressure Decrease After Prolonged Head Down Tilt Bed Rest in Young Healthy Subjects Is Associated With Reduction in Left Ventricular Ejection Time and Diastolic Length. Frontiers in Physiology, 2022, 13, 866045.	2.8	2
2	Reservoir-Excess Pressure Parameters Independently Predict Cardiovascular Events in Individuals With Type 2 Diabetes. Hypertension, 2021, 78, 40-50.	2.7	4
3	The Use of Maximum Entropy to Enhance Wave Intensity Analysis: An Application to Coronary Arteries in Hypertrophic Obstructive Cardiomyopathy. Frontiers in Cardiovascular Medicine, 2021, 8, 701267.	2.4	1
4	Acute Effects of Transcatheter Aortic Valve Replacement on Central Aortic Hemodynamics in Patients With Severe Aortic Stenosis. Hypertension, 2020, 75, 1557-1564.	2.7	12
5	Mechanics of the dicrotic notch: An acceleration hypothesis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 1253-1259.	1.8	11
6	The modified arterial reservoir: An update with consideration of asymptotic pressure (P_{âˆž}) and zero-flow pressure (P_{zf}). Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 1288-1299.	1.8	17
7	Feasibility of Estimation of Aortic Wave Intensity Using Non-invasive Pressure Recordings in the Absence of Flow Velocity in Man. Frontiers in Physiology, 2020, 11, 550.	2.8	10
8	Identification of Distinct Arterial Waveform Clusters and a Longitudinal Evaluation of Their Clinical Usefulness. Hypertension, 2019, 74, 921-928.	2.7	7
9	Impact of pulmonary endarterectomy on pulmonary arterial wave propagation and reservoir function. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H505-H516.	3.2	17
10	Automatic optic disc detection in colour fundus images by means of multispectral analysis and information content. PeerJ, 2019, 7, e7119.	2.0	8
11	Pathophysiological coronary and microcirculatory flow alterations in aortic stenosis. Nature Reviews Cardiology, 2018, 15, 420-431.	13.7	41
12	Impact of chronic hypoxia on proximal pulmonary artery wave propagation and mechanical properties in rats. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H1264-H1278.	3.2	10
13	Relationship of aortic excess pressure obtained using pressure-only reservoir pressure analysis to directly measured aortic flow in humans. Physiological Measurement, 2018, 39, 064006.	2.1	15
14	Reservoir pressure analysis of aortic blood pressure. Journal of Hypertension, 2017, 35, 2025-2033.	0.5	23
15	A Mock Circulatory System Incorporating a Compliant 3Dâ€Printed Anatomical Model to Investigate Pulmonary Hemodynamics. Artificial Organs, 2017, 41, 637-646.	1.9	31
16	Effect of Monthly, Highâ€Dose, Longâ€Term Vitamin D Supplementation on Central Blood Pressure Parameters: A Randomized Controlled Trial Substudy. Journal of the American Heart Association, 2017, 6, .	3.7	63
17	Wave Intensity Analysis Provides Novel Insights Into Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension. Journal of the American Heart Association, 2017, 6, .	3.7	39
18	Pulmonary artery wave propagation and reservoir function in conscious man: impact of pulmonary vascular disease, respiration and dynamic stress tests. Journal of Physiology, 2017, 595, 6463-6476.	2.9	11

#	Article	IF	Citations
19	Feasibility of cardiovascular magnetic resonance derived coronary wave intensity analysis. Journal of Cardiovascular Magnetic Resonance, 2017, 18, 93.	3.3	5
20	Utility of Cardiovascular Magnetic Resonance-Derived Wave Intensity Analysis As a Marker of Ventricular Function in Children with Heart Failure and Normal Ejection Fraction. Frontiers in Pediatrics, 2017, 5, 65.	1.9	10
21	Mechanisms of Myocardial Ischemia in Hypertrophic Cardiomyopathy. Journal of the American College of Cardiology, 2016, 68, 1651-1660.	2.8	92
22	A method to implement the reservoir-wave hypothesis using phase-contrast magnetic resonance imaging. MethodsX, 2016, 3, 508-512.	1.6	1
23	Using wave intensity analysis to determine local reflection coefficient in flexible tubes. Journal of Biomechanics, 2016, 49, 2709-2717.	2.1	13
24	Different associations between beta-blockers and other antihypertensive medication combinations with brachial blood pressure and aortic waveform parameters. International Journal of Cardiology, 2016, 219, 257-263.	1.7	10
25	Investigation of the Characteristics of <scp>H</scp>eart<scp>W</scp>are <scp>HVAD</scp> and <scp>T</scp>horatec <scp>H</scp>eart<scp>M</scp>ate <scp>II</scp> Under Steady and Pulsatile Flow Conditions. Artificial Organs, 2016, 40, 549-560.	1.9	41
26	Attenuation of reflected waves in man during retrograde propagation from femoral artery to proximal aorta. International Journal of Cardiology, 2016, 202, 441-445.	1.7	17
27	Central Aortic Reservoir-Wave Analysis Improves Prediction of Cardiovascular Events in Elderly Hypertensives. Hypertension, 2015, 65, 629-635.	2.7	40
28	Wave intensity analysis in air-filled flexible vessels. Journal of Biomechanics, 2015, 48, 687-694.	2.1	2
29	Errors of Fact in the Recent Article by Westerhof, Segers, and Westerhof. Hypertension, 2015, 66, .	2.7	2
30	Automated speckle tracking algorithm to aid on-axis imaging in echocardiography. Journal of Medical Imaging, 2014, 1, 037001.	1.5	1
31	Ventriculovascular interactions late after atrial and arterial repair of transposition of the great arteries. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 2627-2633.	0.8	11
32	Excess Pressure Integral Predicts Cardiovascular Events Independent of Other Risk Factors in the Conduit Artery Functional Evaluation Substudy of Anglo-Scandinavian Cardiac Outcomes Trial. Hypertension, 2014, 64, 60-68.	2.7	85
33	The case for the reservoir-wave approach. International Journal of Cardiology, 2014, 172, 299-306.	1.7	56
34	Reservoir and excess pressures predict cardiovascular events in high-risk patients. International Journal of Cardiology, 2014, 171, 31-36.	1.7	72
35	Experimental evaluation of local wave speed in the presence of reflected waves. Journal of Biomechanics, 2014, 47, 87-95.	2.1	33
36	Response to the letter of Mynard and Smolich. International Journal of Cardiology, 2014, 176, 1391.	1.7	4

#	Article	IF	Citations
37	The importance of wave reflection: A comparison of wave intensity analysis and separation of pressure into forward and backward components. , 2013, 2013, 229-32.		11
38	Arterial reservoir pressure, subservient to the McDonald lecture, Artery 13. Artery Research, 2013, 7, 171.	0.6	10
39	Attenuation of Wave Reflection by Wave Entrapment Creates a â€œHorizon Effectâ€•in the Human Aorta. Hypertension, 2012, 60, 778-785.	2.7	79
40	Arterial reservoir-excess pressure and ventricular work. Medical and Biological Engineering and Computing, 2012, 50, 419-424.	2.8	52
41	The arterial reservoir pressure increases with aging and is the major determinant of the aortic augmentation index. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H580-H586.	3.2	139
42	A novel measure to characterise optimality of diameter relationships at retinal vascular bifurcations. Artery Research, 2010, 4, 75.	0.6	24
43	An introduction to wave intensity analysis. Medical and Biological Engineering and Computing, 2009, 47, 175-188.	2.8	259
44	A brief history of arterial wave mechanics. Medical and Biological Engineering and Computing, 2009, 47, 111-118.	2.8	88
45	Red blood cell thermal fluctuations: comparison between experiment and molecular dynamics simulations. Soft Matter, 2009, 5, 3603.	2.7	22
46	The Relationship between Velocity and Cerebral Resistance during Vasomotor Reactivity Testing: Should We Report a Different Measurement?. Journal for Vascular Ultrasound, 2008, 32, 67-74.	0.1	0
47	Effect of Wall Motion on Arterial Wall Shear Stress. Journal of Biomechanical Science and Engineering, 2007, 2, 58-68.	0.3	8
48	Importance of the aortic reservoir in determining the shape of the arterial pressure waveform â€“ The forgotten lessons of Frank. Artery Research, 2007, 1, 40.	0.6	62
49	Differentiation of stenosed and aneurysmal arteries by pulse wave propagation analysis based on a fluid-solid interaction computational method. Technology and Health Care, 2007, 15, 79-90.	1.2	2
50	Segmentation of blood vessels from red-free and fluorescein retinal images. Medical Image Analysis, 2007, 11, 47-61.	11.6	367
51	A FLUID-SOLID INTERACTION STUDY OF THE PULSE WAVE VELOCITY IN UNIFORM ARTERIES. , 2006, , .		2
52	Use of simultaneous pressure and velocity measurements to estimate arterial wave speed at a single site in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H878-H885.	3.2	134
53	Direct and series transmission of left atrial pressure perturbations to the pulmonary artery: a study using wave-intensity analysis. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H267-H275.	3.2	23
54	Time-domain representation of ventricular-arterial coupling as a windkessel and wave system. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1358-H1368.	3.2	252