

Kim H Parker

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,351
citations

304743

22
h-index

206112

48
g-index

54
all docs

54
docs citations

54
times ranked

2224
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Segmentation of blood vessels from red-free and fluorescein retinal images. <i>Medical Image Analysis</i> , 2007, 11, 47-61. | 11.6 | 367 |
| 2 | An introduction to wave intensity analysis. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 175-188. | 2.8 | 259 |
| 3 | Time-domain representation of ventricular-arterial coupling as a windkessel and wave system. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 284, H1358-H1368. | 3.2 | 252 |
| 4 | The arterial reservoir pressure increases with aging and is the major determinant of the aortic augmentation index. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H580-H586. | 3.2 | 139 |
| 5 | Use of simultaneous pressure and velocity measurements to estimate arterial wave speed at a single site in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H878-H885. | 3.2 | 134 |
| 6 | Mechanisms of Myocardial Ischemia in Hypertrophic Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2016, 68, 1651-1660. | 2.8 | 92 |
| 7 | A brief history of arterial wave mechanics. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 111-118. | 2.8 | 88 |
| 8 | Excess Pressure Integral Predicts Cardiovascular Events Independent of Other Risk Factors in the Conduit Artery Functional Evaluation Substudy of Anglo-Scandinavian Cardiac Outcomes Trial. <i>Hypertension</i> , 2014, 64, 60-68. | 2.7 | 85 |
| 9 | Attenuation of Wave Reflection by Wave Entrapment Creates a "Horizon Effect" in the Human Aorta. <i>Hypertension</i> , 2012, 60, 778-785. | 2.7 | 79 |
| 10 | Reservoir and excess pressures predict cardiovascular events in high-risk patients. <i>International Journal of Cardiology</i> , 2014, 171, 31-36. | 1.7 | 72 |
| 11 | Effect of Monthly, High-Dose, Long-Term Vitamin D Supplementation on Central Blood Pressure Parameters: A Randomized Controlled Trial Substudy. <i>Journal of the American Heart Association</i> , 2017, 6, . | 3.7 | 63 |
| 12 | Importance of the aortic reservoir in determining the shape of the arterial pressure waveform "The forgotten lessons of Frank. <i>Artery Research</i> , 2007, 1, 40. | 0.6 | 62 |
| 13 | The case for the reservoir-wave approach. <i>International Journal of Cardiology</i> , 2014, 172, 299-306. | 1.7 | 56 |
| 14 | Arterial reservoir-excess pressure and ventricular work. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 419-424. | 2.8 | 52 |
| 15 | Investigation of the Characteristics of H_{heart} and W_{are} of HVAD and T_{horatec} H_{heart} M_{ate} II Under Steady and Pulsatile Flow Conditions. <i>Artificial Organs</i> , 2016, 40, 549-560. | 1.9 | 41 |
| 16 | Pathophysiological coronary and microcirculatory flow alterations in aortic stenosis. <i>Nature Reviews Cardiology</i> , 2018, 15, 420-431. | 13.7 | 41 |
| 17 | Central Aortic Reservoir-Wave Analysis Improves Prediction of Cardiovascular Events in Elderly Hypertensives. <i>Hypertension</i> , 2015, 65, 629-635. | 2.7 | 40 |
| 18 | Wave Intensity Analysis Provides Novel Insights Into Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension. <i>Journal of the American Heart Association</i> , 2017, 6, . | 3.7 | 39 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Experimental evaluation of local wave speed in the presence of reflected waves. <i>Journal of Biomechanics</i> , 2014, 47, 87-95. | 2.1 | 33 |
| 20 | A Mock Circulatory System Incorporating a Compliant 3D-Printed Anatomical Model to Investigate Pulmonary Hemodynamics. <i>Artificial Organs</i> , 2017, 41, 637-646. | 1.9 | 31 |
| 21 | A novel measure to characterise optimality of diameter relationships at retinal vascular bifurcations. <i>Artery Research</i> , 2010, 4, 75. | 0.6 | 24 |
| 22 | Direct and series transmission of left atrial pressure perturbations to the pulmonary artery: a study using wave-intensity analysis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H267-H275. | 3.2 | 23 |
| 23 | Reservoir pressure analysis of aortic blood pressure. <i>Journal of Hypertension</i> , 2017, 35, 2025-2033. | 0.5 | 23 |
| 24 | Red blood cell thermal fluctuations: comparison between experiment and molecular dynamics simulations. <i>Soft Matter</i> , 2009, 5, 3603. | 2.7 | 22 |
| 25 | Attenuation of reflected waves in man during retrograde propagation from femoral artery to proximal aorta. <i>International Journal of Cardiology</i> , 2016, 202, 441-445. | 1.7 | 17 |
| 26 | Impact of pulmonary endarterectomy on pulmonary arterial wave propagation and reservoir function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H505-H516. | 3.2 | 17 |
| 27 | The modified arterial reservoir: An update with consideration of asymptotic pressure (P_{∞}) and zero-flow pressure (P_{zf}). <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 1288-1299. | 1.8 | 17 |
| 28 | Relationship of aortic excess pressure obtained using pressure-only reservoir pressure analysis to directly measured aortic flow in humans. <i>Physiological Measurement</i> , 2018, 39, 064006. | 2.1 | 15 |
| 29 | Using wave intensity analysis to determine local reflection coefficient in flexible tubes. <i>Journal of Biomechanics</i> , 2016, 49, 2709-2717. | 2.1 | 13 |
| 30 | Acute Effects of Transcatheter Aortic Valve Replacement on Central Aortic Hemodynamics in Patients With Severe Aortic Stenosis. <i>Hypertension</i> , 2020, 75, 1557-1564. | 2.7 | 12 |
| 31 | 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 |
| 32 | Ventriculovascular interactions late after atrial and arterial repair of transposition of the great arteries. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 2627-2633. | 0.8 | 11 |
| 33 | Pulmonary artery wave propagation and reservoir function in conscious man: impact of pulmonary vascular disease, respiration and dynamic stress tests. <i>Journal of Physiology</i> , 2017, 595, 6463-6476. | 2.9 | 11 |
| 34 | Mechanics of the aortic notch: An acceleration hypothesis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 1253-1259. | 1.8 | 11 |
| 35 | Arterial reservoir pressure, subservient to the McDonald lecture, <i>Artery Research</i> , 2013, 7, 171. | 0.6 | 10 |
| 36 | Different associations between beta-blockers and other antihypertensive medication combinations with brachial blood pressure and aortic waveform parameters. <i>International Journal of Cardiology</i> , 2016, 219, 257-263. | 1.7 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Utility of Cardiovascular Magnetic Resonance-Derived Wave Intensity Analysis As a Marker of Ventricular Function in Children with Heart Failure and Normal Ejection Fraction. <i>Frontiers in Pediatrics</i> , 2017, 5, 65. | 1.9 | 10 |
| 38 | Impact of chronic hypoxia on proximal pulmonary artery wave propagation and mechanical properties in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H1264-H1278. | 3.2 | 10 |
| 39 | Feasibility of Estimation of Aortic Wave Intensity Using Non-invasive Pressure Recordings in the Absence of Flow Velocity in Man. <i>Frontiers in Physiology</i> , 2020, 11, 550. | 2.8 | 10 |
| 40 | Effect of Wall Motion on Arterial Wall Shear Stress. <i>Journal of Biomechanical Science and Engineering</i> , 2007, 2, 58-68. | 0.3 | 8 |
| 41 | Automatic optic disc detection in colour fundus images by means of multispectral analysis and information content. <i>PeerJ</i> , 2019, 7, e7119. | 2.0 | 8 |
| 42 | Identification of Distinct Arterial Waveform Clusters and a Longitudinal Evaluation of Their Clinical Usefulness. <i>Hypertension</i> , 2019, 74, 921-928. | 2.7 | 7 |
| 43 | Feasibility of cardiovascular magnetic resonance derived coronary wave intensity analysis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017, 18, 93. | 3.3 | 5 |
| 44 | Response to the letter of Mynard and Smolich. <i>International Journal of Cardiology</i> , 2014, 176, 1391. | 1.7 | 4 |
| 45 | Reservoir-Excess Pressure Parameters Independently Predict Cardiovascular Events in Individuals With Type 2 Diabetes. <i>Hypertension</i> , 2021, 78, 40-50. | 2.7 | 4 |
| 46 | A FLUID-SOLID INTERACTION STUDY OF THE PULSE WAVE VELOCITY IN UNIFORM ARTERIES. , 2006, , . | | 2 |
| 47 | Differentiation of stenosed and aneurysmal arteries by pulse wave propagation analysis based on a fluid-solid interaction computational method. <i>Technology and Health Care</i> , 2007, 15, 79-90. | 1.2 | 2 |
| 48 | Wave intensity analysis in air-filled flexible vessels. <i>Journal of Biomechanics</i> , 2015, 48, 687-694. | 2.1 | 2 |
| 49 | Errors of Fact in the Recent Article by Westerhof, Segers, and Westerhof. <i>Hypertension</i> , 2015, 66, . | 2.7 | 2 |
| 50 | 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. <i>Frontiers in Physiology</i> , 2022, 13, 866045. | 2.8 | 2 |
| 51 | Automated speckle tracking algorithm to aid on-axis imaging in echocardiography. <i>Journal of Medical Imaging</i> , 2014, 1, 037001. | 1.5 | 1 |
| 52 | A method to implement the reservoir-wave hypothesis using phase-contrast magnetic resonance imaging. <i>MethodsX</i> , 2016, 3, 508-512. | 1.6 | 1 |
| 53 | The Use of Maximum Entropy to Enhance Wave Intensity Analysis: An Application to Coronary Arteries in Hypertrophic Obstructive Cardiomyopathy. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 701267. | 2.4 | 1 |
| 54 | The Relationship between Velocity and Cerebral Resistance during Vasomotor Reactivity Testing: Should We Report a Different Measurement?. <i>Journal for Vascular Ultrasound</i> , 2008, 32, 67-74. | 0.1 | 0 |