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List of Publications by Year
in descending order

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26 papers	709 citations	687363 13 h-index	752698 20 g-index
26 all docs	26 docs citations	26 times ranked	401 citing authors

#	Article	IF	Citations
1	Longitudinal movements and resulting shear strain of the arterial wall. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H394-H402.	3.2	199
2	Evaluation of an ultrasonic echo-tracking method for measurements of arterial wall movements in two dimensions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1300-1311.	3.0	118
3	A new non-invasive ultrasonic method for simultaneous measurements of longitudinal and radial arterial wall movements: first in vivo trial. Clinical Physiology and Functional Imaging, 2003, 23, 247-251.	1.2	75
4	Longitudinal displacement and intramural shear strain of the porcine carotid artery undergo profound changes in response to catecholamines. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1102-H1115.	3.2	41
5	Different Patterns of Longitudinal Displacement of the CommonÂCarotid Artery Wall in Healthy Humans Are Stable OverÃa Four-Month Period. Ultrasound in Medicine and Biology, 2012, 38, 916-925.	1.5	36
6	Effects of adrenaline on longitudinal arterial wall movements and resulting intramural shear strain: a first report. Clinical Physiology and Functional Imaging, 2009, 29, 353-359.	1.2	31
7	Intra-Observer Variability of Longitudinal Displacement and Intramural Shear Strain Measurements of the Arterial Wall Using Ultrasound Noninvasively in vivo. Ultrasound in Medicine and Biology, 2010, 36, 697-704.	1.5	31
8	Profound Increase in Longitudinal Displacements of the Porcine Carotid Artery Wall Can Take Place Independently of Wall Shear Stress: A Continuation Report. Ultrasound in Medicine and Biology, 2015, 41, 1342-1353.	1.5	26
9	Accuracy and Reproducibility of a Novel Dynamic Volume Flow Measurement Method. Ultrasound in Medicine and Biology, 2013, 39, 1903-1914.	1.5	25
10	A Method for Arterial Diameter Change Measurements Using Ultrasonic B-Mode Data. Ultrasound in Medicine and Biology, 2010, 36, 1504-1512.	1.5	23
11	Longitudinal Movement of the Common Carotid Artery Wall: New Information on Cardiovascular Aging. Ultrasound in Medicine and Biology, 2018, 44, 2283-2295.	1.5	19
12	Evaluation of an algorithm for arterial lumen diameter measurements by means of ultrasound. Medical and Biological Engineering and Computing, 2010, 48, 1133-1140.	2.8	17
13	Improved Tracking Performance of Lagrangian Block-Matching Methodologies Using Block Expansion in the Time Domain: In Silico, Phantom and inÂVivo Evaluations. Ultrasound in Medicine and Biology, 2014, 40, 2508-2520.	1.5	14
14	Design and Fabrication of a Conceptual Arterial Ultrasound Phantom Capable of Exhibiting Longitudinal Wall Movement. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 11-18.	3.0	8
15	Comparison of the multiâ€phasic longitudinal displacement of the left and right common carotid artery in healthy humans. Clinical Physiology and Functional Imaging, 2021, 41, 342-354.	1.2	8
16	A method to measure shear strain with high spatial resolution in the arterial wall non-invasively in vivo by tracking zero-crossings of B-mode intensity gradients. , 2010, , .		7
17	A robust and fast method for arterial lumen diameter and intima-media thickness measurements. , 2012, , .		6
18	Iterative 2D Tissue Motion Tracking in Ultrafast Ultrasound Imaging. Applied Sciences (Switzerland), 2018, 8, 662.	2.5	6

#	Article	IF	Citations
19	A combination of parabolic and grid slope interpolation for 2D tissue displacement estimations. Medical and Biological Engineering and Computing, 2017, 55, 1327-1338.	2.8	5
20	A fast 2D tissue motion estimator based on the phase of the intensity enables visualization of the propagation of the longitudinal movement in the carotid artery wall. , 2013, , .		4
21	Low wall stress in the popliteal artery: Other mechanisms responsible for the predilection of aneurysmal dilatation?. Vascular Medicine, 2014, 19, 131-136.	1.5	3
22	An Automatic Method for Measurements of Arterial Intima-Media Thickness Using Ultrasonic B-Mode Data. Acoustical Imaging, 2012, , 115-122.	0.2	3
23	Increased cardiovascular risk without generalized arterial dilating diathesis in persons who do not have abdominal aortic aneurysm but who are firstâ€degree relatives of abdominal aortic aneurysm patients. Clinical and Experimental Pharmacology and Physiology, 2015, 42, 576-581.	1.9	2
24	Combined use of iteration, quadratic interpolation and an extra kernel for high-resolution 2D particle tracking: A first evaluation. , 2010, , .		1
25	A method for measuring the variation of intima-media thickness during the entire cardiac cycle using B-Mode images. , 2011, , .		1
26	Non-invasive ultrasonic measurement of the relative volume change of the arterial wall - first in vivo trial. , 2008, , .		0