Clement Papadacci

List of Publications by Year
in descending order

33 papers	1,192 citations	471061 17 h-index	676716 22 g-index
39 all docs	39 docs citations	39 times ranked	1047 citing authors

#	Article	IF	Citations
1	3D ultrafast ultrasound imaging<i>in vivo</i>. Physics in Medicine and Biology, 2014, 59, L1-L13.	1.6	290
2	High-contrast ultrafast imaging of the heart. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 288-301.	1.7	200
3	3-D ultrafast doppler imaging applied to the noninvasive mapping of blood vessels in Vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1467-1472.	1.7	95
4	4-D ultrafast shear-wave imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1059-1065.	1.7	83
5	Anisotropic polyvinyl alcohol hydrogel phantom for shear wave elastography in fibrous biological soft tissue: a multimodality characterization. Physics in Medicine and Biology, 2014, 59, 6923-6940.	1.6	66
6	Imaging the dynamics of cardiac fiber orientation in vivo using 3D Ultrasound Backscatter Tensor Imaging. Scientific Reports, 2017, 7, 830.	1.6	57
7	Ultrafast Ultrasound Imaging in PediatricÂand Adult Cardiology. JACC: Cardiovascular Imaging, 2020, 13, 1771-1791.	2.3	54
8	In vivo whole brain microvascular imaging in mice using transcranial 3D Ultrasound Localization Microscopy. EBioMedicine, 2022, 79, 103995.	2.7	45
9	Ultrasound backscatter tensor imaging (BTI): analysis of the spatial coherence of ultrasonic speckle in anisotropic soft tissues. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 986-996.	1.7	40
10	3D Quasi-Static Ultrasound Elastography With Plane Wave <italic>In Vivo</italic>. IEEE Transactions on Medical Imaging, 2017, 36, 357-365.	5.4	38
11	3D Myocardial Elastography <italic>In Vivo</italic>. IEEE Transactions on Medical Imaging, 2017, 36, 618-627.	5.4	28
12	Supersonic Shear Wave Imaging to Assess Arterial Nonlinear Behavior and Anisotropy: Proof of Principle via <i>Ex Vivo</i> Testing of the Horse Aorta. Advances in Mechanical Engineering, 2014, 6, 272586.	0.8	24
13	A versatile and experimentally validated finite element model to assess the accuracy of shear wave elastography in a bounded viscoelastic medium. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 439-450.	1.7	23
14	Coronary Flow Assessment Using 3-Dimensional Ultrafast Ultrasound Localization Microscopy. JACC: Cardiovascular Imaging, 2022, 15, 1193-1208.	2.3	23
15	4D Ultrafast Ultrasound Imaging of Naturally Occurring Shear Waves in the Human Heart. IEEE Transactions on Medical Imaging, 2020, 39, 4436-4444.	5.4	22
16	Feasibility and Validation of 4-D Pulse Wave Imaging in Phantoms and <i>In Vivo</i>. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1305-1317.	1.7	21
17	4D simultaneous tissue and blood flow Doppler imaging: revisiting cardiac Doppler index with single heart beat 4D ultrafast echocardiography. Physics in Medicine and Biology, 2019, 64, 085013.	1.6	20
18	Arterial Stiffening with Ultrafast Ultrasound Imaging Gives NewÂInsight into Arterial Phenotype of Vascular Ehlers-Danlos MouseÂModels. Ultraschall in Der Medizin, 2019, 40, 734-742.	0.8	15

#	Article	IF	Citations
19	Smart Ultrasound Device for Non-Invasive Real-Time Myocardial Stiffness Quantification of the Human Heart. IEEE Transactions on Biomedical Engineering, 2022, 69, 42-52.	2.5	12
20	Shear Wave Imaging of the heart using a cardiac phased array with coherent spatial compound. , 2012, , .		8
21	Cardiac Lesion Mapping <italic>In Vivo</italic> Using Intracardiac Myocardial Elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 14-20.	1.7	8
22	Non invasive and real time evaluation of mice aortic stiffness by ultrafast ultrasound imaging: a new tool for evaluation of preclinical vascular disease models. European Heart Journal, 2013, 34, P2527-P2527.	1.0	4
23	Boosting transducer matrix sensitivity for 3D large field ultrasound localization microscopy using a multi-lens diffracting layer: a simulation study. Physics in Medicine and Biology, 2022, 67, 085009.	1.6	4
24	Towards backscatter tensor imaging (BTI): Analysis of the spatial coherence of ultrasonic speckle in anisotropic soft tissues. , 2013, , .		3
25	Supersonic shear wave imaging to assess arterial anisotropy: Ex-vivo testing of the horse aorta. , 2013, , .		3
26	Anisotropic polyvinyl alcohol hydrogel phantom for shear wave elastography in fibrous biological soft tissue. , 2014, , .		3
27	Optimization of transmit parameters for two-dimensional cardiac strain estimation with coherent compounding in silico, in vitro, and in vivo. , 2016, , .		1
28	Feasibility and validation of 4D Pulse wave Imaging (PWI) in vitro: 3D automated estimation of regional Pulse Wave Velocity vector. , 2016, , .		1
29	Quantitative Cardiac Output Assessment Using 4D Ultrafast Doppler Imaging: An in Vitro Study. , 2018, , .		1
30	Experimental study on the effect of the cylindrical vessel geometry on arterial shear wave elastography. , 2015, , .		0
31	Myocardial stiffness assessment in pediatric cardiology using shear wave imaging. , 2015, , .		0
32	Non-invasive Evaluation of Aortic Stiffness Dependence with Aortic Blood Pressure and Internal Radius by Shear Wave Elastography and Ultrafast Imaging. Irbm, 2018, 39, 9-17.	3.7	0
33	Multi-plane-transmit (MPT) Volumetric Imaging based on A Matrix Array: Experimental Validation. , 2019, , .		0