

Annette Caenen

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

188
citations

933447

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1199594

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27
all docs

27
docs citations

27
times ranked

162
citing authors

#	ARTICLE	IF	CITATIONS
1	Supersonic Shear Wave Imaging to Assess Arterial Nonlinear Behavior and Anisotropy: Proof of Principle via <i>Ex Vivo</i> Testing of the Horse Aorta. <i>Advances in Mechanical Engineering</i> , 2014, 6, 272586.	1.6	24
2	A versatile and experimentally validated finite element model to assess the accuracy of shear wave elastography in a bounded viscoelastic medium. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 439-450.	3.0	23
3	Full Characterization of <i>in vivo</i> Muscle as an Elastic, Incompressible, Transversely Isotropic Material Using Ultrasonic Rotational 3D Shear Wave Elasticity Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 133-144.	8.9	23
4	Assessing cardiac stiffness using ultrasound shear wave elastography. <i>Physics in Medicine and Biology</i> , 2022, 67, 02TR01.	3.0	22
5	An <i>in silico</i> framework to analyze the anisotropic shear wave mechanics in cardiac shear wave elastography. <i>Physics in Medicine and Biology</i> , 2018, 63, 075005.	3.0	18
6	Investigating Shear Wave Physics in a Generic Pediatric Left Ventricular Model via <i>In Vitro</i> Experiments and Finite Element Simulations. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 349-361.	3.0	17
7	Effect of Ultrafast Imaging on Shear Wave Visualization and Characterization: An Experimental and Computational Study in a Pediatric Ventricular Model. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 840.	2.5	12
8	Analysis of multiple shear wave modes in a nonlinear soft solid: Experiments and finite element simulations with a tilted acoustic radiation force. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 107, 103754.	3.1	12
9	A direct comparison of natural and acoustic-radiation-force-induced cardiac mechanical waves. <i>Scientific Reports</i> , 2020, 10, 18431.	3.3	11
10	Parasternal Versus Apical View in Cardiac Natural Mechanical Wave Speed Measurements. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 1590-1602.	3.0	11
11	Supersonic shear wave imaging to assess arterial anisotropy: Ex-vivo testing of the horse aorta. , 2013, , .		3
12	Transmural Wave Speed Gradient May Distinguish Intrinsic Myocardial Stiffening From Preload-Induced Changes in Operational Stiffness in Shear Wave Elastography. <i>IEEE Transactions on Biomedical Engineering</i> , 2023, 70, 259-270.	4.2	3
13	The effect of stretching on transmural shear wave anisotropy in cardiac shear wave elastography. , 2017, , .		2
14	Phase and group velocities for shear wave propagation in an incompressible, hyperelastic material with uniaxial stretch. <i>Physics in Medicine and Biology</i> , 2022, 67, 095015.	3.0	2
15	The effect of stretching on transmural shear wave anisotropy in cardiac shear wave elastography: An ex vivo and in silico study. , 2017, , .		1
16	Analyzing the Shear Wave Mechanics in Cardiac Shear Wave Elastography Using Finite Element Simulations. , 2018, , .		1
17	Investigating the Degree of Shear Wave Speed Anisotropy as a Function of Studied Ventricular Zone. , 2018, , .		1
18	A comparison of natural and acoustic radiation force induced shear wave propagation speed measurements in open-chest pigs. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	Demonstration of Complex Shear Wave Patterns in Skeletal Muscle in vivo Using 3D SWEI. , 2020, , .		1
20	Myocardial stiffness assessment in pediatric cardiology using shear wave imaging. , 2015, , .		0
21	Finite element simulations to support the measurement and analysis of Shear Wave Dispersion. , 2016, , .		0
22	Anisotropic Constructive Shearwave Interference Measurement of Transversely Anisotropic Materials. , 2018, , .		0
23	Physics of Within-Tissue Wave Propagation Generated by Pulse Propagation in the Carotid Artery. Applied Sciences (Switzerland), 2019, 9, 2878.	2.5	0
24	Measuring elastic nonlinearity in a soft solid using a tilted acoustic radiation force for shear wave excitation. , 2019, , .		0
25	Numerical model of Lamb wave propagation in the tapered septal wall of the heart. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0