

# Annette Caenen

## List of Publications by Year in descending order

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papers

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citations

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1199594

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times ranked

162  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transmural Wave Speed Gradient May Distinguish Intrinsic Myocardial Stiffening From Preload-Induced Changes in Operational Stiffness in Shear Wave Elastography. IEEE Transactions on Biomedical Engineering, 2023, 70, 259-270.	4.2	3
2	Full Characterization of <i>in vivo</i> Muscle as an Elastic, Incompressible, Transversely Isotropic Material Using Ultrasonic Rotational 3D Shear Wave Elasticity Imaging. IEEE Transactions on Medical Imaging, 2022, 41, 133-144.	8.9	23
3	Assessing cardiac stiffness using ultrasound shear wave elastography. Physics in Medicine and Biology, 2022, 67, 02TR01.	3.0	22
4	Phase and group velocities for shear wave propagation in an incompressible, hyperelastic material with uniaxial stretch. Physics in Medicine and Biology, 2022, 67, 095015.	3.0	2
5	A direct comparison of natural and acoustic-radiation-force-induced cardiac mechanical waves. Scientific Reports, 2020, 10, 18431.	3.3	11
6	Parasternal Versus Apical View in Cardiac Natural Mechanical Wave Speed Measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1590-1602.	3.0	11
7	Analysis of multiple shear wave modes in a nonlinear soft solid: Experiments and finite element simulations with a tilted acoustic radiation force. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 107, 103754.	3.1	12
8	Demonstration of Complex Shear Wave Patterns in Skeletal Muscle <i>in vivo</i> Using 3D SWEI. , 2020, , .		1
9	Physics of Within-Tissue Wave Propagation Generated by Pulse Propagation in the Carotid Artery. Applied Sciences (Switzerland), 2019, 9, 2878.	2.5	0
10	Measuring elastic nonlinearity in a soft solid using a tilted acoustic radiation force for shear wave excitation. , 2019, , .		0
11	A comparison of natural and acoustic radiation force induced shear wave propagation speed measurements in open-chest pigs. , 2019, , .		1
12	Numerical model of Lamb wave propagation in the tapered septal wall of the heart. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
13	An <i>in silico</i> framework to analyze the anisotropic shear wave mechanics in cardiac shear wave elastography. Physics in Medicine and Biology, 2018, 63, 075005.	3.0	18
14	Analyzing the Shear Wave Mechanics in Cardiac Shear Wave Elastography Using Finite Element Simulations. , 2018, , .		1
15	Investigating the Degree of Shear Wave Speed Anisotropy as a Function of Studied Ventricular Zone. , 2018, , .		1
16	Anisotropic Constructive Shearwave Interference Measurement of Transversely Anisotropic Materials. , 2018, , .		0
17	Investigating Shear Wave Physics in a Generic Pediatric Left Ventricular Model via <i>In Vitro</i> Experiments and Finite Element Simulations. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 349-361.	3.0	17
18	Effect of Ultrafast Imaging on Shear Wave Visualization and Characterization: An Experimental and Computational Study in a Pediatric Ventricular Model. Applied Sciences (Switzerland), 2017, 7, 840.	2.5	12

#	ARTICLE	IF	CITATIONS
19	The effect of stretching on transmural shear wave anisotropy in cardiac shear wave elastography: An ex vivo and in silico study. , 2017, , .		1
20	The effect of stretching on transmural shear wave anisotropy in cardiac shear wave elastography. , 2017, , .		2
21	Finite element simulations to support the measurement and analysis of Shear Wave Dispersion. , 2016, , .		0
22	Myocardial stiffness assessment in pediatric cardiology using shear wave imaging. , 2015, , .		0
23	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.	3.0	23
24	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.	1.6	24
25	Supersonic shear wave imaging to assess arterial anisotropy: Ex-vivo testing of the horse aorta. , 2013, , .		3