

Matilda Larsson

List of Publications by Year in descending order

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55
papers

723
citations

516215

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h-index

580395

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all docs

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docs citations

57
times ranked

892
citing authors

#	ARTICLE	IF	CITATIONS
1	Arterial Stiffness Estimation by Shear Wave Elastography: Validation in Phantoms with Mechanical Testing. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 308-321.	0.7	99
2	Ultrasound-based radial and longitudinal strain estimation of the carotid artery: a feasibility study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 2244-2251.	1.7	57
3	Ultrasound speckle tracking for radial, longitudinal and circumferential strain estimation of the carotid artery "An in vitro validation via sonomicrometry using clinical and high-frequency ultrasound. <i>Ultrasonics</i> , 2015, 56, 399-408.	2.1	56
4	Shear Wave Elastography Quantifies Stiffness in Ex Vivo Porcine Artery with Stiffened Arterial Region. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 2423-2435.	0.7	48
5	Ultrasound Speckle Tracking Strain Estimation of in Vivo Carotid Artery Plaque with in Vitro Sonomicrometry Validation. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 77-88.	0.7	37
6	Fixation Identification in Centroid versus Start-Point Modes Using Eye-Tracking Data. <i>Perceptual and Motor Skills</i> , 2008, 106, 710-724.	0.6	33
7	Recognition of facially expressed emotions and visual search strategies in adults with Asperger syndrome. <i>Research in Autism Spectrum Disorders</i> , 2011, 5, 210-217.	0.8	29
8	Influence of wall thickness and diameter on arterial shear wave elastography: a phantom and finite element study. <i>Physics in Medicine and Biology</i> , 2017, 62, 2694-2718.	1.6	29
9	Estimation of Cardiovascular Relative Pressure Using Virtual Work-Energy. <i>Scientific Reports</i> , 2019, 9, 1375.	1.6	25
10	Automatic three-dimensional registration of intravascular optical coherence tomography images. <i>Journal of Biomedical Optics</i> , 2012, 17, 026005.	1.4	22
11	Altered patterns of displacement within the Achilles tendon following surgical repair. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 1857-1865.	2.3	22
12	Non-invasive estimation of relative pressure in turbulent flow using virtual work-energy. <i>Medical Image Analysis</i> , 2020, 60, 101627.	7.0	20
13	Osteoprotegerin is a marker of cardiovascular mortality in patients with chronic kidney disease stages 3-5. <i>Scientific Reports</i> , 2021, 11, 2473.	1.6	18
14	Patient-Specific Left Ventricular Flow Simulations From Transthoracic Echocardiography: Robustness Evaluation and Validation Against Ultrasound Doppler and Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 2261-2275.	5.4	17
15	Combined spatiotemporal and frequency-dependent shear wave elastography enables detection of vulnerable carotid plaques as validated by MRI. <i>Scientific Reports</i> , 2020, 10, 403.	1.6	17
16	Wave intensity wall analysis: a novel noninvasive method to measure wave intensity. <i>Heart and Vessels</i> , 2009, 24, 357-365.	0.5	16
17	The influences of static and interactive dynamic facial stimuli on visual strategies in persons with Asperger syndrome. <i>Research in Autism Spectrum Disorders</i> , 2011, 5, 935-940.	0.8	16
18	Strain assessment in the carotid artery wall using ultrasound speckle tracking: validation in a sheep model. <i>Physics in Medicine and Biology</i> , 2015, 60, 1107-1123.	1.6	16

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19	Effects of hemodialysis on the cardiovascular system: quantitative analysis using wave intensity wall analysis and tissue velocity imaging. <i>Heart and Vessels</i> , 2011, 26, 289-297.	0.5	15
20	Circumferential strain by velocity vector imaging and speckle-tracking echocardiography: validation against sonomicrometry in an aortic phantom. <i>Clinical Physiology and Functional Imaging</i> , 2018, 38, 269-277.	0.5	15
21	The importance of the eye area in face identification abilities and visual search strategies in persons with Asperger syndrome. <i>Research in Autism Spectrum Disorders</i> , 2010, 4, 724-730.	0.8	11
22	Left ventricular mechanical dyssynchrony in patients with different stages of chronic kidney disease and the effects of hemodialysis. <i>Hemodialysis International</i> , 2013, 17, 346-358.	0.4	10
23	Plaque characterization using shear wave elastography – evaluation of differentiability and accuracy using a combined <i>ex vivo</i> and <i>in vitro</i> setup. <i>Physics in Medicine and Biology</i> , 2018, 63, 235008.	1.6	10
24	Ultrasound-based Speckle Tracking for 3D Strain estimation of the Arterial wall — An experimental validation study in a tissue mimicking phantom. , 2011, , .		9
25	Visualization of multimodal polymer-shelled contrast agents using ultrasound contrast sequences: an experimental study in a tissue mimicking flow phantom. <i>Cardiovascular Ultrasound</i> , 2013, 11, 33.	0.5	8
26	Differences in myocardial velocities during supine and upright exercise stress echocardiography in healthy adults. <i>Clinical Physiology and Functional Imaging</i> , 2009, 29, 216-223.	0.5	7
27	Ultrasound-based 2D strain estimation of the carotid artery: an in-silico feasibility study. , 2009, , .		7
28	State diagrams of the heart – a new approach to describing cardiac mechanics. <i>Cardiovascular Ultrasound</i> , 2009, 7, 22.	0.5	6
29	High variability in strain estimation errors when using a commercial ultrasound speckle tracking algorithm on tendon tissue. <i>Acta Radiologica</i> , 2016, 57, 1223-1229.	0.5	6
30	Shear wave elastography for characterization of carotid artery plaques - A feasibility study in an experimental setup. , 2012, , .		4
31	Speckle tracking strain estimation of a carotid artery plaque phantom - Validation via sonomicrometry. , 2013, , .		4
32	Feasibility of shear wave elastography for plaque characterization. , 2014, , .		4
33	Endocardial border delineation capability of a novel multimodal polymer-shelled contrast agent. <i>Cardiovascular Ultrasound</i> , 2014, 12, 24.	0.5	4
34	Patient-specific flow simulation of the left ventricle from 4D echocardiography - feasibility and robustness evaluation. , 2015, , .		4
35	Comparison of in vivo vs. ex situ obtained material properties of sheep common carotid artery. <i>Medical Engineering and Physics</i> , 2018, 55, 16-24.	0.8	4
36	Velocity Tracking – A Novel Method for Quantitative Analysis of Longitudinal Myocardial Function. <i>Journal of the American Society of Echocardiography</i> , 2007, 20, 847-856.	1.2	3

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37	Multimodal validation of patient-specific intraventricular flow simulations from 4D echocardiography. , 2016, , .		3
38	In-vivo assessment of radial and longitudinal strain in the carotid artery using speckle tracking. , 2010, , .		2
39	Automatic three-dimensional registration of intra-vascular optical coherence tomography images for the clinical evaluation of stent implantation over time. Proceedings of SPIE, 2012, , .	0.8	2
40	Algorithm comparison for cardiac image fusion of coronary computed tomography angiography and 3D echocardiography. , 2015, , .		2
41	Method comparison for cardiac image registration of coronary computed tomography angiography and 3-D echocardiography. Journal of Medical Imaging, 2018, 5, 1.	0.8	2
42	Spatial compounding for 2D strain estimation in the mouse heart: A pilot study. , 2010, , .		1
43	Velocity tracking, a new and user independent method for detecting regional function of the left ventricle. Clinical Physiology and Functional Imaging, 2009, 29, 24-31.	0.5	0
44	A novel measure to express tracking quality in ultrasound block matching. , 2010, , .		0
45	A new ultrasound-based approach to visualize target specific polymeric contrast agent. , 2011, , .		0
46	Carotid strain estimation using an ultrasound-based speckle tracking algorithm. , 2012, , .		0
47	A novel method to generate synthetic ultrasound data of the carotid artery based on in vivo observation as a tool to validate algorithm accuracy. , 2012, , .		0
48	A novel method to generate synthetic ultrasound data of the carotid artery based on in vivo observation as a tool to validate algorithm accuracy. , 2012, , .		0
49	Assessment of longitudinal strain in the carotid artery wall using ultrasound-based Speckle tracking - Validation in a sheep model. , 2013, , .		0
50	In vivo radial and longitudinal carotid artery plaque strain estimation via ultrasound-based speckle tracking. , 2014, , .		0
51	Evaluating arterial and plaque elasticity with shear wave elastography in an ex vivo porcine model. , 2015, , .		0
52	An ex-vivo setup for characterization of atherosclerotic plaque using shear wave elastography and micro-computed tomography. , 2016, , .		0
53	Estimation of left ventricular blood flow parameters: clinical application of patient-specific CFD simulations from 4D echocardiography. Proceedings of SPIE, 2017, , .	0.8	0
54	Strain and strain rate generated by shear wave elastography in an ex vivo porcine aorta. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
55	Abstract 139: Future Clinical Tools: Carotid Plaque Characterization via Shear Wave Elastography - A Phantom Study. Stroke, 2015, 46, .	1.0	0