

David Larsson

List of Publications by Year in descending order

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29
papers

426
citations

758635

12
h-index

794141

19
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32
all docs

32
docs citations

32
times ranked

526
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	Measurement of structural anisotropy in femoral trabecular bone using clinical-resolution CT images. <i>Journal of Biomechanics</i> , 2013, 46, 2659-2666.	0.9	34
3	Assessment of Transverse Isotropy in Clinical-Level CT Images of Trabecular Bone Using the Gradient Structure Tensor. <i>Annals of Biomedical Engineering</i> , 2014, 42, 950-959.	1.3	29
4	False lumen pressure estimation in type B aortic dissection using 4D flow cardiovascular magnetic resonance: comparisons with aortic growth. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 51.	1.6	29
5	Estimation of Cardiovascular Relative Pressure Using Virtual Work-Energy. <i>Scientific Reports</i> , 2019, 9, 1375.	1.6	25
6	Left ventricular outflow obstruction predicts increase in systolic pressure gradients and blood residence time after transcatheter mitral valve replacement. <i>Scientific Reports</i> , 2018, 8, 15540.	1.6	24
7	Non-invasive estimation of relative pressure in turbulent flow using virtual work-energy. <i>Medical Image Analysis</i> , 2020, 60, 101627.	7.0	20
8	Modeling Left Atrial Flow, Energy, Blood Heating Distribution in Response to Catheter Ablation Therapy. <i>Frontiers in Physiology</i> , 2018, 9, 1757.	1.3	18
9	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
10	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
11	Vascular Lesion-Specific Drug Delivery Systems. <i>Journal of the American College of Cardiology</i> , 2021, 77, 2413-2431.	1.2	17
12	Non-invasive estimation of relative pressure for intracardiac flows using virtual work-energy. <i>Medical Image Analysis</i> , 2021, 68, 101948.	7.0	16
13	Noninvasive quantification of cerebrovascular pressure changes using 4D Flow MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 3096-3110.	1.9	13
14	An inverse method for mechanical characterization of heterogeneous diseased arteries using intravascular imaging. <i>Scientific Reports</i> , 2021, 11, 22540.	1.6	12
15	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
16	A platform for high-fidelity patient-specific structural modelling of atherosclerotic arteries: from intravascular imaging to three-dimensional stress distributions. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210436.	1.5	10
17	Feasibility of shear wave elastography for plaque characterization. , 2014, , .		4
18	Patient-specific flow simulation of the left ventricle from 4D echocardiography - feasibility and robustness evaluation. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
19	Altered Aortic Hemodynamics and Relative Pressure in Patients with Dilated Cardiomyopathy. Journal of Cardiovascular Translational Research, 2021, , 1.	1.1	4
20	Multimodal validation of patient-specific intraventricular flow simulations from 4D echocardiography. , 2016, , .		3
21	Multigrid Reconstruction in Tomographic Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 300-310.	2.7	3
22	Impact and implications of mixed plaque class in automated characterization of complex atherosclerotic lesions. Computerized Medical Imaging and Graphics, 2022, 97, 102051.	3.5	3
23	Improving Automated Tissue Characterization in Optical Coherence Tomography by Melding Attenuation Compensation with Deep Learning. , 2021, , .		2
24	Unlocking the Non-invasive Assessment of Conduit and Reservoir Function in the Aorta. Journal of Cardiovascular Translational Research, 2022, 15, 1075-1085.	1.1	2
25	In Vitro Validation of a Novel Image-Based Inverse Method for Mechanical Characterization of Vessels. , 2021, , .		1
26	An ex-vivo setup for characterization of atherosclerotic plaque using shear wave elastography and micro-computed tomography. , 2016, , .		0
27	Estimation of left ventricular blood flow parameters: clinical application of patient-specific CFD simulations from 4D echocardiography. Proceedings of SPIE, 2017, , .	0.8	0
28	Strain and strain rate generated by shear wave elastography in an ex vivo porcine aorta. , 2017, , .		0
29	Strain and strain rate generated by shear wave elastography in ex vivo porcine aortas. , 2017, , .		0