David Larsson

List of Publications by Year
in descending order

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29	426	758635	794141
papers	citations	12	19
		h-index	g-index

32	32	32	526
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Non-invasive estimation of relative pressure for intracardiac flows using virtual work-energy. Medical Image Analysis, 2021, 68, 101948.	7.0	16
4	False lumen pressure estimation in type B aortic dissection using 4D flow cardiovascular magnetic resonance: comparisons with aortic growth. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 51.	1.6	29
5	Vascular Lesionâ€“Specific Drug DeliveryÂSystems. Journal of the American College of Cardiology, 2021, 77, 2413-2431.	1.2	17
6	Improving Automated Tissue Characterization in Optical Coherence Tomography by Melding Attenuation Compensation with Deep Learning. , 2021, , .		2
7	In Vitro Validation of a Novel Image-Based Inverse Method for Mechanical Characterization of Vessels. , 2021, , .		1
8	Noninvasive quantification of cerebrovascular pressure changes using 4D Flow MRI. Magnetic Resonance in Medicine, 2021, 86, 3096-3110.	1.9	13
9	A platform for high-fidelity patient-specific structural modelling of atherosclerotic arteries: from intravascular imaging to three-dimensional stress distributions. Journal of the Royal Society Interface, 2021, 18, 20210436.	1.5	10
10	An inverse method for mechanical characterization of heterogeneous diseased arteries using intravascular imaging. Scientific Reports, 2021, 11, 22540.	1.6	12
11	Altered Aortic Hemodynamics and Relative Pressure in Patients with Dilated Cardiomyopathy. Journal of Cardiovascular Translational Research, 2021, , 1.	1.1	4
12	Non-invasive estimation of relative pressure in turbulent flow using virtual work-energy. Medical Image Analysis, 2020, 60, 101627.	7.0	20
13	Multigrid Reconstruction in Tomographic Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 300-310.	2.7	3
14	Combined spatiotemporal and frequency-dependent shear wave elastography enables detection of vulnerable carotid plaques as validated by MRI. Scientific Reports, 2020, 10, 403.	1.6	17
15	Estimation of Cardiovascular Relative Pressure Using Virtual Work-Energy. Scientific Reports, 2019, 9, 1375.	1.6	25
16	Plaque characterization using shear wave elastographyâ€”evaluation of differentiability and accuracy using a combined ex vivo and in vitro setup. Physics in Medicine and Biology, 2018, 63, 235008.	1.6	10
17	Modeling Left Atrial Flow, Energy, Blood Heating Distribution in Response to Catheter Ablation Therapy. Frontiers in Physiology, 2018, 9, 1757.	1.3	18
18	Left ventricular outflow obstruction predicts increase in systolic pressure gradients and blood residence time after transcatheter mitral valve replacement. Scientific Reports, 2018, 8, 15540.	1.6	24

#	Article	IF	Citations
19	Estimation of left ventricular blood flow parameters: clinical application of patient-specific CFD simulations from 4D echocardiography. Proceedings of SPIE, 2017, , .	0.8	0
20	Patient-Specific Left Ventricular Flow Simulations From Transthoracic Echocardiography: Robustness Evaluation and Validation Against Ultrasound Doppler and Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2017, 36, 2261-2275.	5.4	17
21	Strain and strain rate generated by shear wave elastography in an ex vivo porcine aorta. , 2017, , .		0
22	Strain and strain rate generated by shear wave elastography in ex vivo porcine aortas. , 2017, , .		0
23	Multimodal validation of patient-specific intraventricular flow simulations from 4D echocardiography. , 2016, , .		3
24	An ex-vivo setup for characterization of atherosclerotic plaque using shear wave elastography and micro-computed tomography. , 2016, , .		0
25	Arterial Stiffness Estimation by Shear Wave Elastography: Validation in Phantoms with Mechanical Testing. Ultrasound in Medicine and Biology, 2016, 42, 308-321.	0.7	99
26	Patient-specific flow simulation of the left ventricle from 4D echocardiography - feasibility and robustness evaluation. , 2015, , .		4
27	Feasibility of shear wave elastography for plaque characterization. , 2014, , .		4
28	Assessment of Transverse Isotropy in Clinical-Level CT Images of Trabecular Bone Using the Gradient Structure Tensor. Annals of Biomedical Engineering, 2014, 42, 950-959.	1.3	29
29	Measurement of structural anisotropy in femoral trabecular bone using clinical-resolution CT images. Journal of Biomechanics, 2013, 46, 2659-2666.	0.9	34