

Giovanni Tonti

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,637
citations

759233

12
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

1801
citing authors

#	ARTICLE	IF	CITATIONS
1	Echocardiographic Particle Image Velocimetry: A Novel Technique for Quantification of Left Ventricular Blood Vorticity Pattern. <i>Journal of the American Society of Echocardiography</i> , 2010, 23, 86-94.	2.8	400
2	Characterization and Quantification of Vortex Flow in the Human Left Ventricle by Contrast Echocardiography Using Vector Particle Image Velocimetry. <i>JACC: Cardiovascular Imaging</i> , 2008, 1, 705-717.	5.3	290
3	The vortex "an early predictor of cardiovascular outcome?. <i>Nature Reviews Cardiology</i> , 2014, 11, 545-553.	13.7	270
4	Emerging Trends in CV Flow Visualization. <i>JACC: Cardiovascular Imaging</i> , 2012, 5, 305-316.	5.3	211
5	On the Left Ventricular Vortex Reversal after Mitral Valve Replacement. <i>Annals of Biomedical Engineering</i> , 2010, 38, 769-773.	2.5	99
6	Fluid dynamics of the left ventricular filling in dilated cardiomyopathy. <i>Journal of Biomechanics</i> , 2002, 35, 665-671.	2.1	89
7	New insights into regional systolic and diastolic left ventricular function with tissue doppler echocardiography: from qualitative analysis to a quantitative approach. <i>Journal of the American Society of Echocardiography</i> , 2001, 14, 85-96.	2.8	56
8	Cardiac fluid dynamics anticipates heart adaptation. <i>Journal of Biomechanics</i> , 2015, 48, 388-391.	2.1	48
9	Changes in electrical activation modify the orientation of left ventricular flow momentum: novel observations using echocardiographic particle image velocimetry. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 203-209.	1.2	44
10	Introduction to Hemodynamic Forces Analysis: Moving Into the New Frontier of Cardiac Deformation Analysis. <i>Journal of the American Heart Association</i> , 2021, 10, e023417.	3.7	27
11	Assessment of left atrial appendage wall velocities by transesophageal tissue Doppler echocardiography: A clinical study in patients with sinus rhythm. <i>Journal of the American Society of Echocardiography</i> , 2002, 15, 425-432.	2.8	25
12	Space and time dependency of inertial and convective contribution to the transmitral pressure drop during ventricular filling. <i>Journal of the American College of Cardiology</i> , 2001, 38, 290-291.	2.8	12
13	Comparative Analysis of Right Ventricle Fluid Dynamics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 667408.	4.1	12
14	Impact of intraventricular haemodynamic forces misalignment on left ventricular remodelling after myocardial infarction. <i>ESC Heart Failure</i> , 2022, 9, 496-505.	3.1	12
15	Cardiac and Vascular Remodeling After 6 Months of Therapy With Sacubitril/Valsartan: Mechanistic Insights From Advanced Echocardiographic Analysis. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	2.4	9
16	From digital image processing of colour Doppler M-mode maps to noninvasive evaluation of the left ventricular diastolic function: a dedicated software package. <i>Ultrasound in Medicine and Biology</i> , 2000, 26, 603-611.	1.5	8
17	Changes in Intraventricular Flow Patterns after MitraClip Implant in Patients with Functional Severe Mitral Regurgitation. <i>Journal of the American Society of Echocardiography</i> , 2019, 32, 1250-1253.e1.	2.8	8
18	Cardiac fluid dynamics meets deformation imaging. <i>Cardiovascular Ultrasound</i> , 2018, 16, 4.	1.6	7

#	ARTICLE	IF	CITATIONS
19	Left ventricular pacing vector selection by novel echo-particle imaging velocimetry analysis for optimization of quadripolar cardiac resynchronization device: a case report. Journal of Medical Case Reports, 2016, 10, 191.	0.8	5
20	Integration between volumetric change and strain for describing the global mechanical function of the left ventricle. Medical Engineering and Physics, 2019, 74, 65-72.	1.7	4
21	Impact of synchronous atrioventricular delay optimization on left ventricle flow force angle evaluated by echocardiographic particle image velocimetry. Journal of Interventional Cardiac Electrophysiology, 2021, , 1.	1.3	1
22	511â€fCardio-vascular remodelling during sacubitril/valsartan therapy in patients with heart failure and reduced ejection fraction. European Heart Journal Supplements, 2021, 23, .	0.1	0