Francesco Maffessanti

List of Publications by Year
in descending order

75	2,952	201674	168389
papers	citations	27 h-index	53 g-index

87	87	87	3717
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	LA Strain for Categorization of LVÂDiastolicÂDysfunction. JACC: Cardiovascular Imaging, 2017, 10, 735-743.	5.3	299
2	Is right ventricular systolic function reduced after cardiac surgery? A two- and three-dimensional echocardiographic study. European Journal of Echocardiography, 2009, 10, 630-634.	2.3	197
3	Age-, Body Size-, and Sex-Specific Reference Values for Right Ventricular Volumes and Ejection Fraction by Three-Dimensional Echocardiography. Circulation: Cardiovascular Imaging, 2013, 6, 700-710.	2.6	190
4	Prognosis of Myocardial Damage in Sarcoidosis Patients With Preserved Left Ventricular Ejection Fraction. Circulation: Cardiovascular Imaging, 2016, 9, e003738.	2.6	167
5	Reference Values for Right Ventricular Volumes and Ejection Fraction With Real-Time Three-Dimensional Echocardiography: Evaluation in a Large Series of Normal Subjects. Journal of the American Society of Echocardiography, 2010, 23, 109-115.	2.8	160
6	Quantitative Evaluation of Regional Left Ventricular Function Using Three-Dimensional Speckle Tracking Echocardiography in Patients With and Without Heart Disease. American Journal of Cardiology, 2009, 104, 1755-1762.	1.6	147
7	3D Echocardiographic Location of Implantable Device Leads and Mechanism of Associated Tricuspid Regurgitation. JACC: Cardiovascular Imaging, 2014, 7, 337-347.	5.3	97
8	Peak left atrial strain as a single measure for the non-invasive assessment of left ventricular filling pressures. International Journal of Cardiovascular Imaging, 2019, 35, 23-32.	1.5	94
9	Mitral Valve Patient-Specific Finite Element Modeling from Cardiac MRI: Application to an Annuloplasty Procedure. Cardiovascular Engineering and Technology, 2011, 2, 66-76.	1.6	93
10	Feasibility of a New Generation Three-Dimensional Echocardiography for Right Ventricular Volumetric and Functional Measurements. American Journal of Cardiology, 2008, 102, 499-505.	1.6	92
11	Ascending aorta diameters measured by echocardiography using both leading edge-to-leading edge and inner edge-to-inner edge conventions in healthy volunteers. European Heart Journal Cardiovascular Imaging, 2014, 15, 415-422.	1.2	84
12	Evaluation of Right Ventricular Systolic Function after Mitral Valve Repair: A Two-Dimensional Doppler, Speckle-Tracking, and Three-Dimensional Echocardiographic Study. Journal of the American Society of Echocardiography, 2012, 25, 701-708.	2.8	78
13	Three-dimensional dynamic assessment of tricuspid and mitral annuli using cardiovascular magnetic resonance. European Heart Journal Cardiovascular Imaging, 2013, 14, 986-995.	1.2	77
14	Quantitative Analysis of Mitral Valve Apparatus in Mitral Valve Prolapse Before and After Annuloplasty: A Three-Dimensional Intraoperative Transesophageal Study. Journal of the American Society of Echocardiography, 2011, 24, 405-413.	2.8	72
15	Three-dimensional echocardiography-based analysis of right ventricular shape in pulmonary arterial hypertension. European Heart Journal Cardiovascular Imaging, 2016, 17, 564-575.	1.2	63
16	3D Morphological Changes in LV and RV During LVAD Ramp Studies. JACC: Cardiovascular Imaging, 2018, 11, 159-169.	5.3	62
17	2D and 3D Echocardiography-Derived Indices of Left Ventricular FunctionÂandÂShape. JACC: Cardiovascular Imaging, 2018, 11, 1569-1579.	5.3	60
18	Feasibility and Accuracy of 3DTEE Versus CT for the Evaluation of Aortic Valve Annulus to Left Main Ostium Distance Before Transcatheter Aortic Valve Implantation. JACC: Cardiovascular Imaging, 2012, 5, 579-588.	5.3	59

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19	Effects of Aging and Body Size on Proximal and Ascending Aorta and Aortic Arch: Inner Edgeâ€“toâ€“Inner Edge Reference Values in a Large Adult Population by Two-Dimensional Transthoracic Echocardiography. Journal of the American Society of Echocardiography, 2013, 26, 419-427.	2.8	53
20	Feasibility of Intraoperative Three-Dimensional Transesophageal Echocardiography in the Evaluation of Right Ventricular Volumes and Function in Patients Undergoing Cardiac Surgery. Journal of the American Society of Echocardiography, 2011, 24, 868-877.	2.8	48
21	Prevalence of Calcification of the Mitral Valve Annulus in Patients Undergoing Surgical Repair of Mitral Valve Prolapse. American Journal of Cardiology, 2014, 113, 1867-1873.	1.6	46
22	Impact of Implantable Transvenous Device Lead Location on Severity of Tricuspid Regurgitation. Journal of the American Society of Echocardiography, 2014, 27, 1164-1175.	2.8	44
23	Morphologic Analysis of the Normal Right Ventricle Using Three-Dimensional Echocardiographyâ€“Derived Curvature Indices. Journal of the American Society of Echocardiography, 2018, 31, 614-623.	2.8	44
24	Left atrial reverse remodeling and functional improvement after mitral valve repair in degenerative mitral regurgitation: A real-time 3-dimensional echocardiography study. American Heart Journal, 2011, 161, 314-321.	2.7	40
25	Serial Changes in Left Ventricular Shape Following Early Mitral Valve Repair. American Journal of Cardiology, 2010, 106, 836-842.	1.6	36
26	Reference values of left heart echocardiographic dimensions and mass in male peri-pubertal athletes. European Journal of Preventive Cardiology, 2018, 25, 1204-1215.	1.8	32
27	Quantification of mitral annulus dynamic morphology in patients with mitral valve prolapse undergoing repair and annuloplasty during a 6-month follow-up. European Journal of Echocardiography, 2011, 12, 375-383.	2.3	31
28	Simultaneous Longitudinal Strain in All 4 Cardiac Chambers. Circulation: Cardiovascular Imaging, 2016, 9, e003895.	2.6	28
29	Reconstruction of three-dimensional biventricular activation based on the 12-lead electrocardiogram via patient-specific modelling. Europace, 2021, 23, 640-647.	1.7	28
30	Three-dimensional analysis of interventricular septal curvature from cardiac magnetic resonance images for the evaluation of patients with pulmonary hypertension. International Journal of Cardiovascular Imaging, 2012, 28, 1073-1085.	1.5	26
31	Ascending Aortic Dimensions in Hypertensive Subjects: Reference Values for Two-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2016, 29, 827-837.	2.8	23
32	Incidence and severity of atherosclerotic cardiovascular artery disease in patients undergoing TAVI. International Journal of Cardiovascular Imaging, 2015, 31, 975-985.	1.5	22
33	Fusion of Three-Dimensional Echocardiographic Regional Myocardial Strain with Cardiac Computed Tomography for Noninvasive Evaluation of the Hemodynamic Impact of Coronary Stenosis in Patients with Chest Pain. Journal of the American Society of Echocardiography, 2018, 31, 664-673.	2.8	22
34	Feasibility of Left Ventricular Shape Analysis from Transthoracic Real-Time 3-D Echocardiographic Images. Ultrasound in Medicine and Biology, 2009, 35, 1953-1962.	1.5	20
35	Three-Dimensional Transthoracic Echocardiography in the Comprehensive Evaluation of Right and Left Heart ChamberÂRemodeling Following PercutaneousÂMitral Valve Repair. Journal of the American Society of Echocardiography, 2016, 29, 946-954.	2.8	20
36	Impact of Severe Pulmonary Arterial Hypertension on the Left Heart and Prognostic Implications. Journal of the American Society of Echocardiography, 2019, 32, 1128-1137.	2.8	20

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37	Dysfunction of Bileaflet Aortic Prosthesis. JACC: Cardiovascular Imaging, 2013, 6, 196-205.	5.3	19
38	Non-invasive assessment of the haemodynamic significance of coronary stenosis using fusion of cardiac computed tomography and 3D echocardiography. European Heart Journal Cardiovascular Imaging, 2016, 18, jew147.	1.2	19
39	Sensitivity analysis of ventricular activation and electrocardiogram in tailored models of heart-failure patients. Medical and Biological Engineering and Computing, 2018, 56, 491-504.	2.8	19
40	Regional shape, global function and mechanics in right ventricular volume and pressure overload conditions: a three-dimensional echocardiography study. International Journal of Cardiovascular Imaging, 2021, 37, 1289-1299.	1.5	19
41	Evaluation of the use of unipolar voltage amplitudes for detection of myocardial scar assessed by cardiac magnetic resonance imaging in heart failure patients. PLoS ONE, 2017, 12, e0180637.	2.5	16
42	Three-dimensional analysis of regional left ventricular endocardial curvature from cardiac magnetic resonance images. Magnetic Resonance Imaging, 2011, 29, 516-524.	1.8	14
43	The Labial Aging Process: A Surface Analysis-Based Three-Dimensional Evaluation. Aesthetic Plastic Surgery, 2014, 38, 236-241.	0.9	14
44	Value of high-resolution mapping in optimizing cryoballoon ablation of atrial fibrillation. International Journal of Cardiology, 2018, 270, 136-142.	1.7	14
45	Echocardiographic Changes in Patients Implanted With a Fully Magnetically Levitated Left Ventricular Assist Device (Heartmate 3). Journal of Cardiac Failure, 2019, 25, 36-43.	1.7	14
46	Nearly automated motion artifacts correction between multi breath-hold short-axis and long-axis cine CMR images. Computers in Biology and Medicine, 2014, 46, 42-50.	7.0	13
47	The influence of scar on the spatio-temporal relationship between electrical and mechanical activation in heart failure patients. Europace, 2020, 22, 777-786.	1.7	12
48	Semi-automated Segmentation and Quantification of Mitral Annulus and Leaflets from Transesophageal 3-D Echocardiographic Images. Ultrasound in Medicine and Biology, 2015, 41, 251-267.	1.5	10
49	Influence of Mitral Valve Anterior Leaflet in vivo Shape on Left Ventricular Ejection. Cardiovascular Engineering and Technology, 2012, 3, 388-401.	1.6	9
50	Factors Associated with the Use of Drug-Eluting Stents in Patients Presenting with Acute ST-Segment Elevation Myocardial Infarction. Cardiology Research and Practice, 2015, 2015, 1-7.	1.1	8
51	Three-dimensional left ventricular segmentation from magnetic resonance imaging for patient-specific modelling purposes. Europace, 2014, 16, iv96-iv101.	1.7	7
52	Patients selection for MitraClip: Time to move to transthoracic echocardiographic screening?. International Journal of Cardiology, 2014, 176, 491-494.	1.7	7
53	3D late gadolinium enhanced cardiovascular MR with CENTRA-PLUS profile/view ordering: Feasibility of right ventricular myocardial damage assessment using a swine animal model. Magnetic Resonance Imaging, 2017, 39, 7-14.	1.8	7
54	Age-Related Electrocardiographic Characteristics of Male Junior Soccer Athletes. Frontiers in Cardiovascular Medicine, 2021, 8, 784170.	2.4	6

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55	A left bundle branch block activation sequence and ventricular pacing influence voltage amplitudes: anin vivoandin silicostudy. Europace, 2018, 20, iii77-iii86.	1.7	5
56	Delayed Anaerobic Threshold in Heart Failure Patients With Atrial Fibrillation. Journal of Cardiopulmonary Rehabilitation and Prevention, 2016, 36, 174-179.	2.1	4
57	Objective selection of short-axis slices for automated quantification of left ventricular size and function by cardiovascular magnetic resonance. Clinical Imaging, 2016, 40, 617-623.	1.5	4
58	Three-dimensional quantification of myocardial perfusion during regadenoson stress computed tomography. European Journal of Radiology, 2016, 85, 885-892.	2.6	4
59	The relation between local repolarization and T-wave morphology in heart failure patients. International Journal of Cardiology, 2017, 241, 270-276.	1.7	4
60	Hemodynamic impact of coronary stenosis using computed tomography: comparison between noninvasive fractional flow reserve and 3D fusion of coronary angiography with stress myocardial perfusion. International Journal of Cardiovascular Imaging, 2019, 35, 1733-1743.	1.5	4
61	Local electromechanical alterations determine the left ventricle rotational dynamics in CRT-eligible heart failure patients. Scientific Reports, 2021, 11, 3267.	3.3	4
62	Three-Dimensional Echocardiography of the Mitral Valve: Lessons Learned. Current Cardiology Reports, 2013, 15, 377.	2.9	3
63	Transcatheter aortic valve implantation: Is an acute improvement in left ventricular ejection fraction as assessed by 3D echocardiography associated to further functional improvement at follow-up?. International Journal of Cardiology, 2014, 171, e47-e49.	1.7	3
64	Integrated Assessment of Left Ventricular Electrical Activation and Myocardial Strain Mapping in Heart Failure Patients. JACC: Clinical Electrophysiology, 2018, 4, 138-146.	3.2	3
65	Short-Term Ventricular Structural Changes Following Left Ventricular Assist Device Implantation. ASAIO Journal, 2021, 67, 169-176.	1.6	3
66	Development of a method for left ventricular shape evaluation based on surfaces obtained by real-time 3D echocardiographic images. , 2007, , .		1
67	Feasibility of regional and global left ventricular shape analysis from real-time 3d echocardiography. , 2009, 2009, 3641-4.		1
68	Three-dimensional echocardiography and mitral valve prolapse diagnosis: new insights into leaflet and cardiac chamber morphology, and annulus dynamics. Journal of Cardiovascular Echography, 2011, 21, 109-117.	0.4	1
69	Three-dimensional echocardiography based evaluation of right ventricular remodeling in patients with pressure overload. , 2015, , .		1
70	Age-dependency of left ventricular shape measured from real-time 3D echocardiographic images. , 2008, , .		0
71	High trans-prosthetic gradients and prosthetic aortic valve dysfunction: the need for an accurate and multimodality imaging approach. Journal of Cardiovascular Echography, 2012, 22, 159-165.	0.4	0
72	Advances in echocardiography: insights into the mitral valve and implications for surgical and percutaneous repair. Interventional Cardiology, 2013, 5, 683-693.	0.0	0

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73	IMPACT OF LEAD LOCATION AS DETERMINED BY 3D ECHOCARDIOGRAPHY ON TRICUSPID REGURGITATION SEVERITY POST IMPLANTABLE DEVICE PLACEMENT. Journal of the American College of Cardiology, 2014, 63, A1986.	2.8	0
74	Three-dimensional changes in regional right ventricular curvature and function in tetralogy of fallot. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P214.	3.3	0
75	Objective selection of short-axis slices for automated quantification of left ventricular size and function by cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2015, 17, .	3.3	0