

# Francesco Maffessanti

## List of Publications by Year in descending order

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75  
papers

2,952  
citations

201674

27  
h-index

168389

53  
g-index

87  
all docs

87  
docs citations

87  
times ranked

3717  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstruction of three-dimensional biventricular activation based on the 12-lead electrocardiogram via patient-specific modelling. <i>Europace</i> , 2021, 23, 640-647.	1.7	28
2	Regional shape, global function and mechanics in right ventricular volume and pressure overload conditions: a three-dimensional echocardiography study. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 1289-1299.	1.5	19
3	Short-Term Ventricular Structural Changes Following Left Ventricular Assist Device Implantation. <i>ASAIO Journal</i> , 2021, 67, 169-176.	1.6	3
4	Local electromechanical alterations determine the left ventricle rotational dynamics in CRT-eligible heart failure patients. <i>Scientific Reports</i> , 2021, 11, 3267.	3.3	4
5	Age-Related Electrocardiographic Characteristics of Male Junior Soccer Athletes. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 784170.	2.4	6
6	The influence of scar on the spatio-temporal relationship between electrical and mechanical activation in heart failure patients. <i>Europace</i> , 2020, 22, 777-786.	1.7	12
7	Peak left atrial strain as a single measure for the non-invasive assessment of left ventricular filling pressures. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 23-32.	1.5	94
8	Impact of Severe Pulmonary Arterial Hypertension on the Left Heart and Prognostic Implications. <i>Journal of the American Society of Echocardiography</i> , 2019, 32, 1128-1137.	2.8	20
9	Hemodynamic impact of coronary stenosis using computed tomography: comparison between noninvasive fractional flow reserve and 3D fusion of coronary angiography with stress myocardial perfusion. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 1733-1743.	1.5	4
10	Echocardiographic Changes in Patients Implanted With a Fully Magnetically Levitated Left Ventricular Assist Device (Heartmate 3). <i>Journal of Cardiac Failure</i> , 2019, 25, 36-43.	1.7	14
11	Morphologic Analysis of the Normal Right Ventricle Using Three-Dimensional Echocardiography-â€Derived Curvature Indices. <i>Journal of the American Society of Echocardiography</i> , 2018, 31, 614-623.	2.8	44
12	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. <i>Journal of the American Society of Echocardiography</i> , 2018, 31, 664-673.	2.8	22
13	3D Morphological Changes in LV and RV During LVAD Ramp Studies. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 159-169.	5.3	62
14	Sensitivity analysis of ventricular activation and electrocardiogram in tailored models of heart-failure patients. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 491-504.	2.8	19
15	Integrated Assessment of Left Ventricular Electrical Activation and Myocardial Strain Mapping in Heart Failure Patients. <i>JACC: Clinical Electrophysiology</i> , 2018, 4, 138-146.	3.2	3
16	2D and 3D Echocardiography-Derived Indices of Left Ventricular Function-âand-âShape. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1569-1579.	5.3	60
17	A left bundle branch block activation sequence and ventricular pacing influence voltage amplitudes: an in vivo and in silico study. <i>Europace</i> , 2018, 20, iii77-iii86.	1.7	5
18	Reference values of left heart echocardiographic dimensions and mass in male peri-pubertal athletes. <i>European Journal of Preventive Cardiology</i> , 2018, 25, 1204-1215.	1.8	32

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19	Value of high-resolution mapping in optimizing cryoballoon ablation of atrial fibrillation. <i>International Journal of Cardiology</i> , 2018, 270, 136-142.	1.7	14
20	3D late gadolinium enhanced cardiovascular MR with CENTRA-PLUS profile/view ordering: Feasibility of right ventricular myocardial damage assessment using a swine animal model. <i>Magnetic Resonance Imaging</i> , 2017, 39, 7-14.	1.8	7
21	The relation between local repolarization and T-wave morphology in heart failure patients. <i>International Journal of Cardiology</i> , 2017, 241, 270-276.	1.7	4
22	LA Strain for Categorization of LV Diastolic Dysfunction. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 735-743.	5.3	299
23	Evaluation of the use of unipolar voltage amplitudes for detection of myocardial scar assessed by cardiac magnetic resonance imaging in heart failure patients. <i>PLoS ONE</i> , 2017, 12, e0180637.	2.5	16
24	Delayed Anaerobic Threshold in Heart Failure Patients With Atrial Fibrillation. <i>Journal of Cardiopulmonary Rehabilitation and Prevention</i> , 2016, 36, 174-179.	2.1	4
25	Ascending Aortic Dimensions in Hypertensive Subjects: Reference Values for Two-Dimensional Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2016, 29, 827-837.	2.8	23
26	Non-invasive assessment of the haemodynamic significance of coronary stenosis using fusion of cardiac computed tomography and 3D echocardiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 18, jew147.	1.2	19
27	Three-Dimensional Transthoracic Echocardiography in the Comprehensive Evaluation of Right and Left Heart Chamber Remodeling Following Percutaneous Mitral Valve Repair. <i>Journal of the American Society of Echocardiography</i> , 2016, 29, 946-954.	2.8	20
28	Objective selection of short-axis slices for automated quantification of left ventricular size and function by cardiovascular magnetic resonance. <i>Clinical Imaging</i> , 2016, 40, 617-623.	1.5	4
29	Prognosis of Myocardial Damage in Sarcoidosis Patients With Preserved Left Ventricular Ejection Fraction. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, e003738.	2.6	167
30	Simultaneous Longitudinal Strain in All 4 Cardiac Chambers. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, e003895.	2.6	28
31	Three-dimensional quantification of myocardial perfusion during regadenoson stress computed tomography. <i>European Journal of Radiology</i> , 2016, 85, 885-892.	2.6	4
32	Three-dimensional echocardiography-based analysis of right ventricular shape in pulmonary arterial hypertension. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 564-575.	1.2	63
33	Factors Associated with the Use of Drug-Eluting Stents in Patients Presenting with Acute ST-Segment Elevation Myocardial Infarction. <i>Cardiology Research and Practice</i> , 2015, 2015, 1-7.	1.1	8
34	Three-dimensional echocardiography based evaluation of right ventricular remodeling in patients with pressure overload. , 2015, , .		1
35	Three-dimensional changes in regional right ventricular curvature and function in tetralogy of fallot. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, P214.	3.3	0
36	Objective selection of short-axis slices for automated quantification of left ventricular size and function by cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, .	3.3	0

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37	Incidence and severity of atherosclerotic cardiovascular artery disease in patients undergoing TAVI. <i>International Journal of Cardiovascular Imaging</i> , 2015, 31, 975-985.	1.5	22
38	Semi-automated Segmentation and Quantification of Mitral Annulus and Leaflets from Transesophageal 3-D Echocardiographic Images. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 251-267.	1.5	10
39	Three-dimensional left ventricular segmentation from magnetic resonance imaging for patient-specific modelling purposes. <i>Europace</i> , 2014, 16, iv96-iv101.	1.7	7
40	3D Echocardiographic Location of Implantable Device Leads and Mechanism of Associated Tricuspid Regurgitation. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 337-347.	5.3	97
41	Prevalence of Calcification of the Mitral Valve Annulus in Patients Undergoing Surgical Repair of Mitral Valve Prolapse. <i>American Journal of Cardiology</i> , 2014, 113, 1867-1873.	1.6	46
42	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?. <i>International Journal of Cardiology</i> , 2014, 171, e47-e49.	1.7	3
43	IMPACT OF LEAD LOCATION AS DETERMINED BY 3D ECHOCARDIOGRAPHY ON TRICUSPID REGURGITATION SEVERITY POST IMPLANTABLE DEVICE PLACEMENT. <i>Journal of the American College of Cardiology</i> , 2014, 63, A1986.	2.8	0
44	The Labial Aging Process: A Surface Analysis-Based Three-Dimensional Evaluation. <i>Aesthetic Plastic Surgery</i> , 2014, 38, 236-241.	0.9	14
45	Impact of Implantable Transvenous Device Lead Location on Severity of Tricuspid Regurgitation. <i>Journal of the American Society of Echocardiography</i> , 2014, 27, 1164-1175.	2.8	44
46	Patients selection for MitraClip: Time to move to transthoracic echocardiographic screening?. <i>International Journal of Cardiology</i> , 2014, 176, 491-494.	1.7	7
47	Nearly automated motion artifacts correction between multi breath-hold short-axis and long-axis cine CMR images. <i>Computers in Biology and Medicine</i> , 2014, 46, 42-50.	7.0	13
48	Ascending aorta diameters measured by echocardiography using both leading edge-to-leading edge and inner edge-to-inner edge conventions in healthy volunteers. <i>European Heart Journal Cardiovascular Imaging</i> , 2014, 15, 415-422.	1.2	84
49	Three-Dimensional Echocardiography of the Mitral Valve: Lessons Learned. <i>Current Cardiology Reports</i> , 2013, 15, 377.	2.9	3
50	Advances in echocardiography: insights into the mitral valve and implications for surgical and percutaneous repair. <i>Interventional Cardiology</i> , 2013, 5, 683-693.	0.0	0
51	Dysfunction of Bileaflet Aortic Prosthesis. <i>JACC: Cardiovascular Imaging</i> , 2013, 6, 196-205.	5.3	19
52	Age-, Body Size-, and Sex-Specific Reference Values for Right Ventricular Volumes and Ejection Fraction by Three-Dimensional Echocardiography. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 700-710.	2.6	190
53	Effects of Aging and Body Size on Proximal and Ascending Aorta and Aortic Arch: Inner Edge to Inner Edge Reference Values in a Large Adult Population by Two-Dimensional Transthoracic Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2013, 26, 419-427.	2.8	53
54	Three-dimensional dynamic assessment of tricuspid and mitral annuli using cardiovascular magnetic resonance. <i>European Heart Journal Cardiovascular Imaging</i> , 2013, 14, 986-995.	1.2	77

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55	Feasibility and Accuracy of 3DTEE Versus CT for the Evaluation of Aortic Valve Annulus to Left Main Ostium Distance Before Transcatheter Aortic Valve Implantation. <i>JACC: Cardiovascular Imaging</i> , 2012, 5, 579-588.	5.3	59
56	Influence of Mitral Valve Anterior Leaflet in vivo Shape on Left Ventricular Ejection. <i>Cardiovascular Engineering and Technology</i> , 2012, 3, 388-401.	1.6	9
57	Evaluation of Right Ventricular Systolic Function after Mitral Valve Repair: A Two-Dimensional Doppler, Speckle-Tracking, and Three-Dimensional Echocardiographic Study. <i>Journal of the American Society of Echocardiography</i> , 2012, 25, 701-708.	2.8	78
58	High trans-prosthetic gradients and prosthetic aortic valve dysfunction: the need for an accurate and multimodality imaging approach. <i>Journal of Cardiovascular Echography</i> , 2012, 22, 159-165.	0.4	0
59	Three-dimensional analysis of interventricular septal curvature from cardiac magnetic resonance images for the evaluation of patients with pulmonary hypertension. <i>International Journal of Cardiovascular Imaging</i> , 2012, 28, 1073-1085.	1.5	26
60	Three-dimensional echocardiography and mitral valve prolapse diagnosis: new insights into leaflet and cardiac chamber morphology, and annulus dynamics. <i>Journal of Cardiovascular Echography</i> , 2011, 21, 109-117.	0.4	1
61	Quantitative Analysis of Mitral Valve Apparatus in Mitral Valve Prolapse Before and After Annuloplasty: A Three-Dimensional Intraoperative Transesophageal Study. <i>Journal of the American Society of Echocardiography</i> , 2011, 24, 405-413.	2.8	72
62	Feasibility of Intraoperative Three-Dimensional Transesophageal Echocardiography in the Evaluation of Right Ventricular Volumes and Function in Patients Undergoing Cardiac Surgery. <i>Journal of the American Society of Echocardiography</i> , 2011, 24, 868-877.	2.8	48
63	Left atrial reverse remodeling and functional improvement after mitral valve repair in degenerative mitral regurgitation: A real-time 3-dimensional echocardiography study. <i>American Heart Journal</i> , 2011, 161, 314-321.	2.7	40
64	Mitral Valve Patient-Specific Finite Element Modeling from Cardiac MRI: Application to an Annuloplasty Procedure. <i>Cardiovascular Engineering and Technology</i> , 2011, 2, 66-76.	1.6	93
65	Three-dimensional analysis of regional left ventricular endocardial curvature from cardiac magnetic resonance images. <i>Magnetic Resonance Imaging</i> , 2011, 29, 516-524.	1.8	14
66	Quantification of mitral annulus dynamic morphology in patients with mitral valve prolapse undergoing repair and annuloplasty during a 6-month follow-up. <i>European Journal of Echocardiography</i> , 2011, 12, 375-383.	2.3	31
67	Serial Changes in Left Ventricular Shape Following Early Mitral Valve Repair. <i>American Journal of Cardiology</i> , 2010, 106, 836-842.	1.6	36
68	Reference Values for Right Ventricular Volumes and Ejection Fraction With Real-Time Three-Dimensional Echocardiography: Evaluation in a Large Series of Normal Subjects. <i>Journal of the American Society of Echocardiography</i> , 2010, 23, 109-115.	2.8	160
69	Feasibility of regional and global left ventricular shape analysis from real-time 3d echocardiography. , 2009, 2009, 3641-4.		1
70	Is right ventricular systolic function reduced after cardiac surgery? A two- and three-dimensional echocardiographic study. <i>European Journal of Echocardiography</i> , 2009, 10, 630-634.	2.3	197
71	Quantitative Evaluation of Regional Left Ventricular Function Using Three-Dimensional Speckle Tracking Echocardiography in Patients With and Without Heart Disease. <i>American Journal of Cardiology</i> , 2009, 104, 1755-1762.	1.6	147
72	Feasibility of Left Ventricular Shape Analysis from Transthoracic Real-Time 3-D Echocardiographic Images. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1953-1962.	1.5	20

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73	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
74	Age-dependency of left ventricular shape measured from real-time 3D echocardiographic images. , 2008, , .		0
75	Development of a method for left ventricular shape evaluation based on surfaces obtained by real-time 3D echocardiographic images. , 2007, , .		1