Roberto M Lang

List of Publications by Year
in descending order

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299 papers	51,128 citations	9264 74 h-index	1461 220 g-index
304 all docs	304 docs citations	304 times ranked	32777 citing authors

#	Article	IF	Citations
1	Recommendations for Cardiac Chamber Quantification by Echocardiography in Adults: An Update from the American Society of Echocardiography and the European Association of Cardiovascular Imaging. Journal of the American Society of Echocardiography, 2015, 28, 1-39.e14.	2.8	10,755
2	Recommendations for Chamber Quantification: A Report from the American Society of Echocardiographyâ€™s Guidelines and Standards Committee and the Chamber Quantification Writing Group, Developed in Conjunction with the European Association of Echocardiography, a Branch of the European Society of Cardiology. Journal of the American Society of Echocardiography, 2005, 18, 1440-1463.	2.8	10,110
3	Recommendations for Cardiac Chamber Quantification by Echocardiography in Adults: An Update from the American Society of Echocardiography and the European Association of Cardiovascular Imaging. European Heart Journal Cardiovascular Imaging, 2015, 16, 233-271.	1.2	5,352
4	Recommendations for chamber quantificationâˆ†. European Journal of Echocardiography, 2006, 7, 79-108.	2.3	2,960
5	Recommendations for Noninvasive Evaluation of Native Valvular Regurgitation. Journal of the American Society of Echocardiography, 2017, 30, 303-371.	2.8	2,269
6	Current and Evolving Echocardiographic Techniques for the Quantitative Evaluation of Cardiac Mechanics: ASE/EAE Consensus Statement on Methodology and Indications. Journal of the American Society of Echocardiography, 2011, 24, 277-313.	2.8	1,026
7	Guidelines for Performing a Comprehensive Transesophageal Echocardiographic Examination: Recommendations from the American Society of Echocardiography and the Society of Cardiovascular Anesthesiologists. Journal of the American Society of Echocardiography, 2013, 26, 921-964.	2.8	966
8	Current and Evolving Echocardiographic Techniques for the Quantitative Evaluation of Cardiac Mechanics: ASE/EAE Consensus Statement on Methodology and Indications Endorsed by the Japanese Society of Echocardiography. European Journal of Echocardiography, 2011, 12, 167-205.	2.3	796
9	EAE/ASE Recommendations for Image Acquisition and Display Using Three-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2012, 25, 3-46.	2.8	760
10	Quantitative Assessment of Left Ventricular Size and Function. Circulation, 2006, 114, 654-661.	1.6	434
11	American Society of Echocardiography Consensus Statement on the Clinical Applications of Ultrasonic Contrast Agents in Echocardiography. Journal of the American Society of Echocardiography, 2008, 21, 1179-1201.	2.8	433
12	EAE/ASE Recommendations for Image Acquisition and Display Using Three-Dimensional Echocardiography. European Heart Journal Cardiovascular Imaging, 2012, 13, 1-46.	1.2	433
13	Guidelines for the Echocardiographic Assessment of Atrial Septal Defect and Patent Foramen Ovale: From the American Society of Echocardiography and Society for Cardiac Angiography and Interventions. Journal of the American Society of Echocardiography, 2015, 28, 910-958.	2.8	379
14	Echocardiographic reference ranges for normal cardiac chamber size: results from the NORRE study. European Heart Journal Cardiovascular Imaging, 2014, 15, 680-690.	1.2	324
15	Real-Time 3-Dimensional Echocardiographic Quantification of Left Ventricular Volumes. JACC: Cardiovascular Imaging, 2008, 1, 413-423.	5.3	313
16	Rapid online quantification of left ventricular volume from real-time three-dimensional echocardiographic data. European Heart Journal, 2006, 27, 460-468.	2.2	304
17	LA Strain for Categorization of LVÂDiastolicÂDysfunction. JACC: Cardiovascular Imaging, 2017, 10, 735-743.	5.3	299
18	Three-Dimensional Echocardiography. Journal of the American College of Cardiology, 2006, 48, 2053-2069.	2.8	283

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19	Serial Assessment of the Cardiovascular System in Normal Pregnancy. Circulation, 1997, 95, 2407-2415.	1.6	283
20	Fast Measurement of Left Ventricular Mass With Real-Time Three-Dimensional Echocardiography. Circulation, 2004, 110, 1814-1818.	1.6	282
21	Differential diagnosis of cardiac masses using contrast echocardiographic perfusion imaging. Journal of the American College of Cardiology, 2004, 43, 1412-1419.	2.8	249
22	Live 3-Dimensional Transesophageal Echocardiography. Journal of the American College of Cardiology, 2008, 52, 446-449.	2.8	234
23	Multimodality Comparison of Quantitative Volumetric Analysis of the Right Ventricle. JACC: Cardiovascular Imaging, 2010, 3, 10-18.	5.3	228
24	Echocardiographic reference ranges for normal left ventricular 2D strain: results from the EACVI NORRE study. European Heart Journal Cardiovascular Imaging, 2017, 18, 833-840.	1.2	228
25	Quantification of left ventricular volumes using three-dimensional echocardiographic speckle tracking: comparison with MRI. European Heart Journal, 2009, 30, 1565-1573.	2.2	223
26	Volumetric Quantification of Global and Regional Left Ventricular Function From Real-Time Three-Dimensional Echocardiographic Images. Circulation, 2005, 112, 1161-1170.	1.6	220
27	Real-time three-dimensional echocardiography for rheumatic mitral valve stenosis evaluation. Journal of the American College of Cardiology, 2004, 43, 2091-2096.	2.8	217
28	Echocardiographic reference ranges for normal non-invasive myocardial work indices: results from the EACVI NORRE study. European Heart Journal Cardiovascular Imaging, 2019, 20, 582-590.	1.2	204
29	Real-Time 3D Echocardiographic Quantification of Left Atrial Volume. JACC: Cardiovascular Imaging, 2012, 5, 769-777.	5.3	192
30	Echocardiography in Heart Failure. Journal of the American College of Cardiology, 2007, 50, 381-396.	2.8	188
31	Echocardiographic reference ranges for normal cardiac Doppler data: results from the NORRE Study. European Heart Journal Cardiovascular Imaging, 2015, 16, 1031-41.	1.2	184
32	Guidelines for Performing a Comprehensive Transesophageal Echocardiographic Examination. Anesthesia and Analgesia, 2014, 118, 21-68.	2.2	179
33	Hemodynamic Ramp Tests in Patients WithÂLeft Ventricular Assist Devices. JACC: Heart Failure, 2016, 4, 208-217.	4.1	177
34	Reduced and delayed untwisting of the left ventricle in patients with hypertension and left ventricular hypertrophy: a study using two-dimensional speckle tracking imaging. European Heart Journal, 2007, 28, 2756-2762.	2.2	173
35	Transthoracic 3D Echocardiographic LeftÂHeart Chamber Quantification UsingÂan Automated Adaptive AnalyticsÂAlgorithm. JACC: Cardiovascular Imaging, 2016, 9, 769-782.	5.3	171
36	Real-Time 3-Dimensional Echocardiography. Circulation, 2009, 119, 314-329.	1.6	169

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37	Prognosis of Myocardial Damage in Sarcoidosis Patients With Preserved Left Ventricular Ejection Fraction. Circulation: Cardiovascular Imaging, 2016, 9, e003738.	2.6	167
38	Use of Real Time Three-Dimensional Transesophageal Echocardiography in Intracardiac Catheter Based Interventions. Journal of the American Society of Echocardiography, 2009, 22, 865-882.	2.8	157
39	On-treatment comparison between corrective His bundle pacing and biventricular pacing for cardiac resynchronization: A secondary analysis of the His-SYNC Pilot Trial. Heart Rhythm, 2019, 16, 1797-1807.	0.7	155
40	Role of Transesophageal Echocardiography in the Diagnosis and Management of Traumatic Aortic Disruption. Circulation, 1995, 92, 2959-2968.	1.6	154
41	Characterization of Degenerative Mitral Valve Disease Using Morphologic Analysis of Real-Time Three-Dimensional Echocardiographic Images. Circulation: Cardiovascular Imaging, 2011, 4, 24-32.	2.6	153
42	Age-Related Normal Range of Left Ventricular Strain and Torsion Using Three-Dimensional Speckle-Tracking Echocardiography. Journal of the American Society of Echocardiography, 2014, 27, 55-64.	2.8	149
43	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
44	Age-related Changes in Left Ventricular Twist Assessed by Two-dimensional Speckle-tracking Imaging. Journal of the American Society of Echocardiography, 2006, 19, 1077-1084.	2.8	146
45	Reproducibility and Inter-Vendor Variability of Left Ventricular Deformation Measurements by Three-Dimensional Speckle-Tracking Echocardiography. Journal of the American Society of Echocardiography, 2011, 24, 878-885.	2.8	141
46	The Assessment of Left Ventricular Twist in Anterior Wall Myocardial Infarction Using Two-dimensional Speckle Tracking Imaging. Journal of the American Society of Echocardiography, 2007, 20, 36-44.	2.8	140
47	Use of Real-time 3-dimensional Transthoracic Echocardiography in the Evaluation of Mitral Valve Disease. Journal of the American Society of Echocardiography, 2006, 19, 413-421.	2.8	122
48	Non-invasive assessment of mitral valve area during percutaneous balloon mitral valvuloplasty: role of real-time 3D echocardiography. European Heart Journal, 2004, 25, 2086-2091.	2.2	120
49	Valvular Heart Disease. Journal of the American College of Cardiology, 2011, 58, 1933-1944.	2.8	113
50	Similarities and Differences in Left Ventricular Size and Function among Races and Nationalities: Results of the World Alliance Societies of Echocardiography Normal Values Study. Journal of the American Society of Echocardiography, 2019, 32, 1396-1406.e2.	2.8	110
51	Automated Echocardiographic Quantification of Left Ventricular Ejection Fraction Without Volume Measurements Using a Machine Learning Algorithm Mimicking a Human Expert. Circulation: Cardiovascular Imaging, 2019, 12, e009303.	2.6	110
52	Improved Semiautomated Quantification of Left Ventricular Volumes and Ejection Fraction Using 3-Dimensional Echocardiography with a Full Matrix-array Transducer: Comparison with Magnetic Resonance Imaging. Journal of the American Society of Echocardiography, 2005, 18, 779-788.	2.8	108
53	Quantification of Mitral Apparatus Dynamics in Functional and Ischemic Mitral Regurgitation Using Real-time 3-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2008, 21, 347-354.	2.8	108
54	Real-Time Three-Dimensional Transesophageal Echocardiography of the Left Atrial Appendage: Initial Experience in the Clinical Setting. Journal of the American Society of Echocardiography, 2008, 21, 1362-1368.	2.8	106

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55	Effects of Aging on Left Atrial Function Assessed by Two-Dimensional Speckle Tracking Echocardiography. Journal of the American Society of Echocardiography, 2009, 22, 70-75.	2.8	103
56	Invasive Validation of the Echocardiographic Assessment of Left Ventricular Filling Pressures Using the 2016 Diastolic Guidelines: Head-to-Head Comparison with the 2009 Guidelines. Journal of the American Society of Echocardiography, 2018, 31, 79-88.	2.8	102
57	Measurement of Left Ventricular Mass by Real-Time Three-Dimensional Echocardiography: Validation Against Magnetic Resonance and Comparison with Two-Dimensional and M-Mode Measurements. Journal of the American Society of Echocardiography, 2008, 21, 1001-1005.	2.8	101
58	Myocardial damage in patients with sarcoidosis and preserved left ventricular systolic function: an observational study. European Journal of Heart Failure, 2011, 13, 1231-1237.	7.1	97
59	3D Echocardiographic Location of Implantable Device Leads and Mechanism of Associated Tricuspid Regurgitation. JACC: Cardiovascular Imaging, 2014, 7, 337-347.	5.3	97
60	3-Dimensional Echocardiographic AnalysisÂof the Tricuspid Annulus ProvidesÂNew Insights Into TricuspidÂValveÂGeometry and Dynamics. JACC: Cardiovascular Imaging, 2019, 12, 401-412.	5.3	97
61	Novel Approach to Three-Dimensional Echocardiographic Quantification of Right Ventricular Volumes and Function from Focused Views. Journal of the American Society of Echocardiography, 2015, 28, 1222-1231.	2.8	96
62	Recommended Standards for the Performance of Transesophageal Echocardiographic Screening for Structural Heart Intervention: From the American Society of Echocardiography. Journal of the American Society of Echocardiography, 2022, 35, 1-76.	2.8	95
63	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
64	Normal Reference Ranges for Echocardiography: rationale, study design, and methodology (NORRE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.2	91
65	Three-dimensional echocardiographic quantification of the left-heart chambers using an automated adaptive analytics algorithm: multicentre validation study. European Heart Journal Cardiovascular Imaging, 2018, 19, 47-58.	1.2	91
66	Real-Time Three-Dimensional Echocardiography Using a Novel Matrix Array Transducer. Echocardiography, 2003, 20, 623-635.	0.9	90
67	Assessment of the Aortic Root Using Real-Time 3D Transesophageal Echocardiography. Circulation Journal, 2010, 74, 2649-2657.	1.6	87
68	Effects of Frame Rate on Three-Dimensional Speckle-Trackingâ€“Based Measurements of Myocardial Deformation. Journal of the American Society of Echocardiography, 2012, 25, 978-985.	2.8	85
69	Comparison of Contrast-enhanced Real-time Live 3-Dimensional Dobutamine Stress Echocardiography with Contrast 2-Dimensional Echocardiography for Detecting Stress-induced Wall-motion Abnormalities. Journal of the American Society of Echocardiography, 2006, 19, 294-299.	2.8	84
70	Real-time 3-Dimensional Color Doppler Flow of Mitral and Tricuspid Regurgitation: Feasibility and Initial Quantitative Comparison with 2-Dimensional Methods. Journal of the American Society of Echocardiography, 2007, 20, 1050-1057.	2.8	84
71	Prospective Evaluation of the Clinical Application of the American College of Cardiology Foundation/American Society of Echocardiography Appropriateness Criteria for Transthoracic Echocardiography. JACC: Cardiovascular Imaging, 2008, 1, 663-671.	5.3	84
72	Accuracy of aortic annular measurements obtained from three-dimensional echocardiography, CT and MRI: human in vitro and in vivo studies. Heart, 2012, 98, 1146-1152.	2.9	84

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73	Left ventricular mechanics in preeclampsia. American Heart Journal, 1991, 121, 1768-1775.	2.7	83
74	Two-dimensional transthoracic echocardiographic normal reference ranges for proximal aorta dimensions: results from the EACVI NORRE study. European Heart Journal Cardiovascular Imaging, 2017, 18, 167-179.	1.2	81
75	Machine Learningâ€"Based Three-Dimensional Echocardiographic Quantification of Right Ventricular Size and Function: Validation Against Cardiac Magnetic Resonance. Journal of the American Society of Echocardiography, 2019, 32, 969-977.	2.8	76
76	3D echocardiographic reference ranges for normal left ventricular volumes and strain: results from the EACVI NORRE study. European Heart Journal Cardiovascular Imaging, 2017, 18, 475-483.	1.2	74
77	3-Dimensional Echocardiography. JACC: Cardiovascular Imaging, 2018, 11, 1854-1878.	5.3	73
78	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
79	Feasibility and Accuracy of Automated Software for Transthoracic Three-Dimensional Left Ventricular Volume and Function Analysis: Comparisons with Two-Dimensional Echocardiography, Three-Dimensional Transthoracic Manual Method, and Cardiac Magnetic Resonance Imaging. Journal of the American Society of Echocardiography, 2017, 30, 1049-1058.	2.8	70
80	Age- and Gender-Dependency of Left Ventricular Geometry Assessed with Real-Time Three-Dimensional Transthoracic Echocardiography. Journal of the American Society of Echocardiography, 2011, 24, 541-547.	2.8	69
81	Accuracy of mitral valve area measurements using transthoracic rapid freehand 3-dimensional scanning: comparison with noninvasive and invasive methods. Journal of the American Society of Echocardiography, 2003, 16, 1292-1300.	2.8	68
82	Impact of Diastolic Dysfunction Grade on Left Atrial Mechanics Assessed by Two-Dimensional Speckle Tracking Echocardiography. Journal of the American Society of Echocardiography, 2010, 23, 961-967.	2.8	66
83	Right atrial volume is a major determinant of tricuspid annulus area in functional tricuspid regurgitation: a three-dimensional echocardiographic study. European Heart Journal Cardiovascular Imaging, 2021, 22, 660-669.	1.2	65
84	Accurate Quantification Methods for Aortic Insufficiency Severity in Patients With LVAD. JACC: Cardiovascular Imaging, 2016, 9, 641-651.	5.3	64
85	Assessment of Left Ventricular Dyssynchrony with Real-time 3-Dimensional Echocardiography: Comparison with Doppler Tissue Imaging. Journal of the American Society of Echocardiography, 2007, 20, 1321-1329.	2.8	63
86	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
87	Correlation between non-invasive myocardial work indices and main parameters of systolic and diastolic function: results from the EACVI NORRE study. European Heart Journal Cardiovascular Imaging, 2020, 21, 533-541.	1.2	63
88	3D Morphological Changes in LV and RV During LVAD Ramp Studies. JACC: Cardiovascular Imaging, 2018, 11, 159-169.	5.3	62
89	Tricuspid regurgitation progression and regression in pulmonary arterial hypertension: implications for right ventricular and tricuspid valve apparatus geometry and patients outcome. European Heart Journal Cardiovascular Imaging, 2017, 18, 86-94.	1.2	61
90	Utilization and dosing of angiotensin-converting enzyme inhibitors for heart failure. Journal of General Internal Medicine, 1997, 12, 563-566.	2.6	60

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91	Bicuspid Aortic Valve: Inter-Racial Difference in Frequency and Aortic Dimensions. JACC: Cardiovascular Imaging, 2012, 5, 981-989.	5.3	60
92	Three-Dimensional Echocardiographic Assessment of Left Heart Chamber Size and Function with Fully Automated Quantification Software in Patients with Atrial Fibrillation. Journal of the American Society of Echocardiography, 2016, 29, 955-965.	2.8	60
93	2D and 3D Echocardiography-Derived Indices of Left Ventricular FunctionÂandÂShape. JACC: Cardiovascular Imaging, 2018, 11, 1569-1579.	5.3	60
94	Three-Dimensional Echocardiographic Automated Quantification of Left Heart Chamber Volumes Using an Adaptive Analytics Algorithm: Feasibility and Impact of Image Quality in Nonselected Patients. Journal of the American Society of Echocardiography, 2017, 30, 879-885.	2.8	59
95	Machine learning based automated dynamic quantification of left heart chamber volumes. European Heart Journal Cardiovascular Imaging, 2019, 20, 541-549.	1.2	59
96	Can three-dimensional echocardiography accurately predict complexity of mitral valve repair?. European Journal of Cardio-thoracic Surgery, 2012, 41, 518-524.	1.4	58
97	Circulating Antiangiogenic Factors and Myocardial Dysfunction in Hypertensive Disorders of Pregnancy. Hypertension, 2016, 67, 1273-1280.	2.7	57
98	Normal Values of Left Ventricular Mass Index Assessed by Transthoracic Three-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2016, 29, 51-61.	2.8	57
99	Comprehensive Two-Dimensional Interrogation of the Tricuspid Valve Using Knowledge Derived from Three-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2016, 29, 74-82.	2.8	57
100	Left ventricular outflow tract obstruction as a cause for hypotension and symptoms during dobutamine stress echocardiography. Clinical Cardiology, 1996, 19, 225-230.	1.8	56
101	Dynamic Three-Dimensional Color Flow Doppler: An Improved Technique for the Assessment of Mitral Regurgitation. Echocardiography, 2003, 20, 265-273.	0.9	56
102	Quantification of Regional Left Ventricular Wall Motion from Real-time 3-Dimensional Echocardiography in Patients with Poor Acoustic Windows: Effects of Contrast Enhancement Tested Against Cardiac Magnetic Resonance. Journal of the American Society of Echocardiography, 2006, 19, 886-893.	2.8	55
103	Restoring Sinus Rhythm Reverses CardiacÂRemodeling and Reduces Valvular Regurgitation in Patients WithÂAtrial Fibrillation. Journal of the American College of Cardiology, 2022, 79, 951-961.	2.8	55
104	Echocardiographic changes with non-invasive ventilation and CPAP in obesity hypoventilation syndrome. Thorax, 2018, 73, 361-368.	5.6	54
105	Echocardiography and cardiovascular magnetic resonance based evaluation of myocardial strain and relationship with late gadolinium enhancement. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 46.	3.3	54
106	Improved detection of myocardial damage in sarcoidosis using longitudinal strain in patients with preserved left ventricular ejection fraction. Echocardiography, 2016, 33, 1344-1352.	0.9	53
107	Echocardiographic Predictors of Pulmonary Embolism in Patients Referred for Helical CT. Echocardiography, 2008, 25, 584-590.	0.9	52
108	The role of contrast enhancement in echocardiographic assessment of left ventricular function. American Journal of Cardiology, 2002, 90, 28-34.	1.6	51

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109	Need for a Global Definition of Normative Echo Valuesâ€"Rationale and Design of the World Alliance of Societies of Echocardiography Normal Values Study (WASE). Journal of the American Society of Echocardiography, 2019, 32, 157-162.e2.	2.8	51
110	Two-Dimensional Echocardiographic Right Ventricular Size and Systolic Function Measurements Stratified by Sex, Age, and Ethnicity: Results of the World Alliance of Societies of Echocardiography Study. Journal of the American Society of Echocardiography, 2021, 34, 1148-1157.e1.	2.8	51
111	Rapid Estimation of Left Ventricular Function Using Echocardiographic Speckle-Tracking of Mitral Annular Displacement. Journal of the American Society of Echocardiography, 2010, 23, 511-515.	2.8	50
112	Comparison Between Four-Chamber and Right Ventricularâ€"Focused Views for the Quantitative Evaluation of Right Ventricular Size and Function. Journal of the American Society of Echocardiography, 2019, 32, 484-494.	2.8	50
113	Subclinical Left Ventricular Longitudinal Systolic Dysfunction in Hypertension With No Evidence of Heart Failure. Circulation Journal, 2008, 72, 189-194.	1.6	49
114	Mechanistic Insights and Characterization of Sickle Cell Diseaseâ€"Associated Cardiomyopathy. Circulation: Cardiovascular Imaging, 2014, 7, 430-437.	2.6	47
115	Normal Values of Left Atrial Size and Function and the Impact of Age: Results of the World Alliance Societies of Echocardiography Study. Journal of the American Society of Echocardiography, 2022, 35, 154-164.e3.	2.8	47
116	Quantitative assessment of left ventricular volume and ejection fraction using two-dimensional speckle tracking echocardiography. European Journal of Echocardiography, 2009, 10, 82-88.	2.3	46
117	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
118	Load Dependency of Left Atrial Strain in Normal Subjects. Journal of the American Society of Echocardiography, 2018, 31, 1221-1228.	2.8	44
119	Prospective Evaluation of Transseptal TMVR for Failed Surgical Bioprostheses. JACC: Cardiovascular Interventions, 2021, 14, 859-872.	2.9	44
120	Novel echocardiographic parameters of aortic insufficiency in continuous-flow left ventricular assist devices and clinical outcome. Journal of Heart and Lung Transplantation, 2016, 35, 976-985.	0.6	43
121	Right Heart Involvement in Patients with Sarcoidosis. Echocardiography, 2016, 33, 734-741.	0.9	43
122	Reproducibility and experience dependence of echocardiographic indices of left ventricular function: Sideâ€byâ€side comparison of global longitudinal strain and ejection fraction. Echocardiography, 2017, 34, 365-370.	0.9	43
123	Imaging and Quantification of Myocardial Perfusion Using Real-Time Three-Dimensional Echocardiography. Journal of the American College of Cardiology, 2006, 47, 146-154.	2.8	39
124	The Value of Three-Dimensional Echocardiography Derived Mitral Valve Parametric Maps and the Role of Experience in the Diagnosis of Pathology. Journal of the American Society of Echocardiography, 2011, 24, 860-867.	2.8	39
125	Cardiovascular changes in preeclampsia. Seminars in Nephrology, 2004, 24, 580-587.	1.6	38
126	Normal Values of Right Atrial Size and Function According to Age, Sex, and Ethnicity: Results of the World Alliance Societies of Echocardiography Study. Journal of the American Society of Echocardiography, 2021, 34, 286-300.	2.8	38

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127	Age dependency of the Tei index of myocardial performance. Journal of the American Society of Echocardiography, 2004, 17, 350-352.	2.8	37
128	Automated, machine learningâ€based, 3D echocardiographic quantification of left ventricular mass. Echocardiography, 2019, 36, 312-319.	0.9	37
129	Serial Changes in Left Ventricular Shape Following Early Mitral Valve Repair. American Journal of Cardiology, 2010, 106, 836-842.	1.6	36
130	First Clinical Experience With 3-Dimensional Echocardiographic Transillumination Rendering. JACC: Cardiovascular Imaging, 2019, 12, 1868-1871.	5.3	35
131	Interinstitutional Measurements of Left Ventricular Volumes, Speckle-Tracking Strain, and Dyssynchrony Using Three-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2013, 26, 1253-1257.	2.8	34
132	Dual Triggering Improves the Accuracy of Left Ventricular Volume Measurements by Contrast-enhanced Real-time 3-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2005, 18, 1292-1298.	2.8	33
133	Three-Dimensional Echocardiography: Is it Ready for Everyday Clinical Use?. JACC: Cardiovascular Imaging, 2009, 2, 114-117.	5.3	33
134	Noninvasive quantification of left ventricular elastance and ventricular-arterial coupling using three-dimensional echocardiography and arterial tonometry. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1916-H1923.	3.2	33
135	Evaluation of Myocardial Deformation in Patients with Sickle Cell Disease and Preserved Ejection Fraction Using Threeâ€Dimensional Speckle Tracking Echocardiography. Echocardiography, 2012, 29, 962-969.	0.9	33
136	Intervendor Consistency and Accuracy of Left Ventricular Volume Measurements Using Three-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2018, 31, 158-168.e1.	2.8	33
137	Activin A and Late Postpartum Cardiac Dysfunction Among Women With Hypertensive Disorders of Pregnancy. Hypertension, 2018, 72, 188-193.	2.7	33
138	Refining Severe Tricuspid Regurgitation Definition by Echocardiography with a New Outcomes-Based â€œMassiveâ€•Grade. Journal of the American Society of Echocardiography, 2020, 33, 1087-1094.	2.8	33
139	Advanced imaging of right ventricular anatomy and function. Heart, 2020, 106, 1469-1476.	2.9	33
140	The use of real-time three-dimensional echocardiography for the quantification of left ventricular volumes and function. Current Opinion in Cardiology, 2009, 24, 402-409.	1.8	32
141	Deep Learningâ€“Based Automated Echocardiographic Quantification of Left Ventricular Ejection Fraction: A Point-of-Care Solution. Circulation: Cardiovascular Imaging, 2021, 14, e012293.	2.6	32
142	2019 ACC/AHA/ASE Key Data Elements and Definitions for Transthoracic Echocardiography: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Data Standards (Writing Committee to Develop Clinical Data Standards for Transthoracic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 137 Td (Echo Imaging, 2019, 12, e000027.	2.6	32
143	Improved Delineation of Cardiac Pathology Using a Novel Three-Dimensional Echocardiographic Tissue Transparency Tool. Journal of the American Society of Echocardiography, 2020, 33, 1316-1323.	2.8	31
144	Association of the Frontal QRS-T Angle with Adverse Cardiac Remodeling, Impaired Left and Right Ventricular Function, and Worse Outcomes in Heart Failure with Preserved Ejection Fraction. Journal of the American Society of Echocardiography, 2014, 27, 74-82.e2.	2.8	29

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145	Echocardiographic reference ranges for normal left ventricular layer-specific strain: results from the EACVI NORRE study. European Heart Journal Cardiovascular Imaging, 2020, 21, 896-905.	1.2	29
146	Differences Among Geriatricians, General Internists, and Cardiologists in the Care of Patients with Heart Failure: A Cautionary Tale of Quality Assessment. Journal of the American Geriatrics Society, 1998, 46, 1349-1354.	2.6	28
147	Simultaneous Longitudinal Strain in All 4 Cardiac Chambers. Circulation: Cardiovascular Imaging, 2016, 9, e003895.	2.6	28
148	Echocardiographic Diagnosis of Acute Pulmonary Embolism in Patients with McConnell's Sign. Echocardiography, 2016, 33, 696-702.	0.9	27
149	Geometric Assessment of Regional Left Ventricular Remodeling by Three-Dimensional Echocardiographic Shape Analysis Correlates with Left Ventricular Function. Journal of the American Society of Echocardiography, 2012, 25, 80-88.	2.8	26
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