

Partho P Sengupta, Dm

List of Publications by Year in descending order

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248
papers

15,866
citations

23500

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291
all docs

291
docs citations

291
times ranked

14853
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.2	1,026
2	Assessment of Myocardial Mechanics Using Speckle Tracking Echocardiography: Fundamentals and Clinical Applications. Journal of the American Society of Echocardiography, 2010, 23, 351-369.	1.2	906
3	Standardization of left atrial, right ventricular, and right atrial deformation imaging using two-dimensional speckle tracking echocardiography: a consensus document of the EACVI/ASE/Industry Task Force to standardize deformation imaging. European Heart Journal Cardiovascular Imaging, 2018, 19, 591-600.	0.5	891
4	Definitions for a Common Standard for 2D Speckle Tracking Echocardiography: Consensus Document of the EACVI/ASE/Industry Task Force to Standardize Deformation Imaging. Journal of the American Society of Echocardiography, 2015, 28, 183-193.	1.2	855
5	Definitions for a common standard for 2D speckle tracking echocardiography: consensus document of the EACVI/ASE/Industry Task Force to standardize deformation imaging. European Heart Journal Cardiovascular Imaging, 2015, 16, 1-11.	0.5	830
6	Twist Mechanics of the Left Ventricle. JACC: Cardiovascular Imaging, 2008, 1, 366-376.	2.3	473
7	Left Ventricular Structure and Function. Journal of the American College of Cardiology, 2006, 48, 1988-2001.	1.2	416
8	Artificial Intelligence in Cardiovascular Imaging. Journal of the American College of Cardiology, 2019, 73, 1317-1335.	1.2	374
9	Tissue Tracking Technology for Assessing Cardiac Mechanics. JACC: Cardiovascular Imaging, 2015, 8, 1444-1460.	2.3	343
10	Two-Dimensional Strain—A Doppler-Independent Ultrasound Method for Quantitation of Regional Deformation: Validation In Vitro and In Vivo. Journal of the American Society of Echocardiography, 2005, 18, 1247-1253.	1.2	332
11	Machine learning in cardiovascular medicine: are we there yet?. Heart, 2018, 104, 1156-1164.	1.2	329
12	Mobile technology and the digitization of healthcare. European Heart Journal, 2016, 37, 1428-1438.	1.0	318
13	Machine-Learning Algorithms to Automate Morphological and Functional Assessments in 2D Echocardiography. Journal of the American College of Cardiology, 2016, 68, 2287-2295.	1.2	291
14	Left Ventricular Form and Function Revisited: Applied Translational Science to Cardiovascular Ultrasound Imaging. Journal of the American Society of Echocardiography, 2007, 20, 539-551.	1.2	261
15	Takotsubo Cardiomyopathy: A Unique Cardiomyopathy With Variable Ventricular Morphology. JACC: Cardiovascular Imaging, 2010, 3, 641-649.	2.3	215
16	Emerging Trends in CV Flow Visualization. JACC: Cardiovascular Imaging, 2012, 5, 305-316.	2.3	211
17	Standardized Imaging for Aortic Annular Sizing. JACC: Cardiovascular Imaging, 2013, 6, 249-262.	2.3	209
18	Apex-to-Base Dispersion in Regional Timing of Left Ventricular Shortening and Lengthening. Journal of the American College of Cardiology, 2006, 47, 163-172.	1.2	193

#	ARTICLE	IF	CITATIONS
19	Fully Automated Versus Standard Tracking of Left Ventricular Ejection Fraction and Longitudinal Strain. <i>Journal of the American College of Cardiology</i> , 2015, 66, 1456-1466.	1.2	188
20	Cognitive Machine-Learning Algorithm for Cardiac Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	1.3	164
21	High Prevalence of Pericardial Involvement in College Student Athletes Recovering From COVID-19. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 541-555.	2.3	160
22	Left Ventricular Isovolumic Flow Sequence During Sinus and Paced Rhythms. <i>Journal of the American College of Cardiology</i> , 2007, 49, 899-908.	1.2	158
23	Sphingosine-1-Phosphate Receptor Agonist Fingolimod Increases Myocardial Salvage and Decreases Adverse Postinfarction Left Ventricular Remodeling in a Porcine Model of Ischemia/Reperfusion. <i>Circulation</i> , 2016, 133, 954-966.	1.6	155
24	Pulmonary Hypertension in Valvular Disease. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 83-99.	2.3	131
25	Disparate Patterns of Left Ventricular Mechanics Differentiate Constrictive Pericarditis From Restrictive Cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 2008, 1, 29-38.	2.3	128
26	Minimizing Cardiotoxicity While Optimizing Treatment Efficacy with Trastuzumab: Review and Expert Recommendations. <i>Oncologist</i> , 2009, 14, 1-11.	1.9	124
27	Proposed Requirements for Cardiovascular Imaging-Related Machine Learning Evaluation (PRIME): A Checklist. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2017-2035.	2.3	123
28	U.S. Hospital Use of Echocardiography. <i>Journal of the American College of Cardiology</i> , 2016, 67, 502-511.	1.2	122
29	Handheld Echocardiography. <i>Circulation</i> , 2017, 136, 2178-2188.	1.6	109
30	Artificial Intelligence: Practical Primer for Clinical Research in Cardiovascular Disease. <i>Journal of the American Heart Association</i> , 2019, 8, e012788.	1.6	104
31	Global Left Atrial Strain Correlates with CHADS2 Risk Score in Patients with Atrial Fibrillation. <i>Journal of the American Society of Echocardiography</i> , 2011, 24, 506-512.	1.2	103
32	Twist and Untwist Mechanics of the Left Ventricle. <i>Heart Failure Clinics</i> , 2008, 4, 315-324.	1.0	101
33	Contrast echocardiography for assessing left ventricular vortex strength in heart failure: a prospective cohort study. <i>European Heart Journal Cardiovascular Imaging</i> , 2013, 14, 1049-1060.	0.5	97
34	Biphasic tissue Doppler waveforms during isovolumic phases are associated with asynchronous deformation of subendocardial and subepicardial layers. <i>Journal of Applied Physiology</i> , 2005, 99, 1104-1111.	1.2	96
35	American Society of Echocardiography: Remote Echocardiography with Web-Based Assessments for Referrals at a Distance (ASE-REWARD) Study. <i>Journal of the American Society of Echocardiography</i> , 2013, 26, 221-233.	1.2	96
36	Left Ventricular Twist and Torsion. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, .	1.3	96

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37	Patent Foramen Ovale. <i>Journal of the American College of Cardiology</i> , 2012, 59, 1665-1671.	1.2	95
38	Characterization and clinical significance of right ventricular mechanics in pulmonary hypertension evaluated with cardiovascular magnetic resonance feature tracking. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 39.	1.6	94
39	Phenotypic Clustering of Left Ventricular Diastolic Function Parameters. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1149-1161.	2.3	92
40	PREDICTIVE MODELING OF HOSPITAL READMISSION RATES USING ELECTRONIC MEDICAL RECORD-WIDE MACHINE LEARNING: A CASE-STUDY USING MOUNT SINAI HEART FAILURE COHORT. , 2017, 22, 276-287.		91
41	Left atrial reservoir function predicts atrial fibrillation recurrence after catheter ablation: a two-dimensional speckle strain study. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2011, 31, 197-206.	0.6	88
42	Severity of cardiomyopathy associated with adenine nucleotide translocator-1 deficiency correlates with mtDNA haplogroup. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3453-3458.	3.3	87
43	Reclassifying Heart Failure: Predominantly Subendocardial, Subepicardial, and Transmural. <i>Heart Failure Clinics</i> , 2008, 4, 379-382.	1.0	85
44	High Spatial Resolution Speckle Tracking Improves Accuracy of 2-Dimensional Strain Measurements: An Update on a New Method in Functional Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2007, 20, 165-170.	1.2	84
45	Characterization of right ventricular remodeling and failure in a chronic pulmonary hypertension model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H1204-H1215.	1.5	82
46	Echocardiography and Three-Dimensional Printing: Sound Ideas to Touch a Heart. <i>Journal of the American Society of Echocardiography</i> , 2015, 28, 398-403.	1.2	82
47	Assessment of Transmitral Vortex Formation in Patients with Diastolic Dysfunction. <i>Journal of the American Society of Echocardiography</i> , 2012, 25, 220-227.	1.2	79
48	Regression of Paravalvular Aortic Regurgitation and Remodeling of Self-Expanding Transcatheter Aortic Valve. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 1364-1375.	2.3	78
49	Precision Phenotyping in Heart Failure and Pattern Clustering of Ultrasound Data for the Assessment of Diastolic Dysfunction. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 1291-1303.	2.3	78
50	Natural History of Left Ventricular Mechanics in Transplanted Hearts. <i>JACC: Cardiovascular Imaging</i> , 2010, 3, 989-1000.	2.3	75
51	Role of Echocardiography in the Diagnosis of Constrictive Pericarditis. <i>Journal of the American Society of Echocardiography</i> , 2009, 22, 24-33.	1.2	74
52	Comparison of echocardiographic features of noncompaction of the left ventricle in adults versus idiopathic dilated cardiomyopathy in adults. <i>American Journal of Cardiology</i> , 2004, 94, 389-391.	0.7	71
53	Three-Dimensional Principal Strain Analysis for Characterizing Subclinical Changes in Left Ventricular Function. <i>Journal of the American Society of Echocardiography</i> , 2014, 27, 1041-1050.e1.	1.2	68
54	Assessment of Longitudinal Myocardial Mechanics in Patients with Degenerative Mitral Valve Regurgitation Predicts Postoperative Worsening of Left Ventricular Systolic Function. <i>Journal of the American Society of Echocardiography</i> , 2014, 27, 627-638.	1.2	67

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55	Network Tomography for Understanding Phenotypic Presentations in Aortic Stenosis. JACC: Cardiovascular Imaging, 2019, 12, 236-248.	2.3	66
56	Application of mobile health, telemedicine and artificial intelligence to echocardiography. Echo Research and Practice, 2019, 6, R41-R52.	0.6	64
57	Accuracy and pitfalls of early diastolic motion of the mitral annulus for diagnosing constrictive pericarditis by tissue Doppler imaging. American Journal of Cardiology, 2004, 93, 886-890.	0.7	63
58	Constrictive Pericarditis. Circulation Journal, 2008, 72, 1555-1562.	0.7	62
59	Management of Asymptomatic Severe Aortic Stenosis. Journal of the American College of Cardiology, 2008, 52, 1279-1292.	1.2	61
60	Multimodality Imaging Strategies for the Assessment of Aortic Stenosis. Circulation: Cardiovascular Imaging, 2016, 9, e004352.	1.3	61
61	Enabling Precision Cardiology Through Multiscale Biology and Systems Medicine. JACC Basic To Translational Science, 2017, 2, 311-327.	1.9	61
62	Prediction of Abnormal Myocardial Relaxation From Signal Processed Surface ECG. Journal of the American College of Cardiology, 2018, 71, 1650-1660.	1.2	60
63	Machine Learning Assessment of Left Ventricular Diastolic Function Based on Electrocardiographic Features. Journal of the American College of Cardiology, 2020, 76, 930-941.	1.2	59
64	Advances in Echocardiographic Imaging in Heart Failure With Reduced and Preserved Ejection Fraction. Circulation Research, 2016, 119, 357-374.	2.0	58
65	Deep-Learning Models for the Echocardiographic Assessment of Diastolic Dysfunction. JACC: Cardiovascular Imaging, 2021, 14, 1887-1900.	2.3	57
66	High Prevalence of Abnormal Nocturnal Oximetry in Patients With Hypertrophic Cardiomyopathy. Journal of the American College of Cardiology, 2009, 54, 1805-1809.	1.2	56
67	Artificial Intelligence in Cardiovascular Medicine. Current Treatment Options in Cardiovascular Medicine, 2019, 21, 25.	0.4	56
68	Multimodality Cardiovascular Imaging in the Midst of the COVID-19 Pandemic. JACC: Cardiovascular Imaging, 2020, 13, 1615-1626.	2.3	56
69	LV Mechanics in Mitral and Aortic Valve Diseases. JACC: Cardiovascular Imaging, 2014, 7, 1151-1166.	2.3	53
70	Mitochondrial DNA Variation Dictates Expressivity and Progression of Nuclear DNA Mutations Causing Cardiomyopathy. Cell Metabolism, 2019, 29, 78-90.e5.	7.2	53
71	Diagnostic Concordance of Echocardiography and Cardiac Magnetic Resonance-Based Tissue Tracking for Differentiating Constrictive Pericarditis From Restrictive Cardiomyopathy. Circulation: Cardiovascular Imaging, 2014, 7, 819-827.	1.3	52
72	A Randomized Trial of Pocket-Echocardiography Integrated Mobile Health Device Assessments in Modern Structural Heart Disease Clinics. JACC: Cardiovascular Imaging, 2018, 11, 546-557.	2.3	52

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73	Adenine Nucleotide Translocase 1 Deficiency Results in Dilated Cardiomyopathy With Defects in Myocardial Mechanics, Histopathological Alterations, and Activation of Apoptosis. JACC: Cardiovascular Imaging, 2011, 4, 1-10.	2.3	51
74	Robot-Assisted Remote Echocardiographic Examination and Teleconsultation. JACC: Cardiovascular Imaging, 2014, 7, 799-803.	2.3	50
75	Trastuzumab-Induced Cardiotoxicity: Heart Failure at the Crossroads. Mayo Clinic Proceedings, 2008, 83, 197-203.	1.4	48
76	Role of Left Ventricular Twist Mechanics in the Assessment of Cardiac Dyssynchrony in Heart Failure. JACC: Cardiovascular Imaging, 2009, 2, 1425-1435.	2.3	47
77	Effects of Percutaneous Balloon Mitral Valvuloplasty on Left Ventricular Deformation in Patients with Isolated Severe Mitral Stenosis: A Speckle-Tracking Strain Echocardiographic Study. Journal of the American Society of Echocardiography, 2014, 27, 639-647.	1.2	47
78	Myocardial Mechanics in Patients With Normal LVEF and Diastolic Dysfunction. JACC: Cardiovascular Imaging, 2020, 13, 258-271.	2.3	45
79	Self-Expanding Transcatheter Aortic Valve Replacement Versus Surgical Valve Replacement in Patients at High Risk for Surgery. Circulation: Cardiovascular Interventions, 2016, 9, .	1.4	44
80	How Do We Reconcile Echocardiography, Computed Tomography, and Hybrid Imaging in Assessing Discordant Grading of Aortic Stenosis Severity?. JACC: Cardiovascular Imaging, 2019, 12, 267-282.	2.3	43
81	Effects of percutaneous mitral commissurotomy on longitudinal left ventricular dynamics in mitral stenosis: Quantitative assessment by tissue velocity imaging. Journal of the American Society of Echocardiography, 2004, 17, 824-828.	1.2	41
82	The Future of Cardiac Imaging. JACC: Cardiovascular Imaging, 2016, 9, 1211-1223.	2.3	41
83	RV Form and Function. JACC: Cardiovascular Imaging, 2013, 6, 636-639.	2.3	40
84	A Machine-Learning Framework to Identify Distinct Phenotypes of Aortic Stenosis Severity. JACC: Cardiovascular Imaging, 2021, 14, 1707-1720.	2.3	39
85	Core Competencies in Echocardiography for Imaging Structural Heart Disease Interventions. JACC: Cardiovascular Imaging, 2019, 12, 2560-2570.	2.3	38
86	History of echocardiography and its future applications in medicine. Critical Care Medicine, 2007, 35, S309-S313.	0.4	37
87	Usefulness of Two-Dimensional and Speckle Tracking Echocardiography In "Gray Zone" Left Ventricular Hypertrophy to Differentiate Professional Football Player's Heart from Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2011, 108, 1322-1326.	0.7	37
88	Impact of Acute Moderate Elevation in Left Ventricular Afterload on Diastolic Transmitral Flow Efficiency: Analysis by Vortex Formation Time. Journal of the American Society of Echocardiography, 2009, 22, 427-431.	1.2	36
89	Multiplanar Visualization of Blood Flow Using Echocardiographic Particle Imaging Velocimetry. JACC: Cardiovascular Imaging, 2012, 5, 566-569.	2.3	36
90	CRT Improves LV Filling Dynamics. JACC: Cardiovascular Imaging, 2013, 6, 704-713.	2.3	36

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91	Will Artificial Intelligence Replace the Human Echocardiographer?. <i>Circulation</i> , 2018, 138, 1639-1642.	1.6	35
92	Interpatient Similarities in Cardiac Function. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1119-1132.	2.3	35
93	Comparison of Usefulness of Tissue Doppler Imaging Versus Brain Natriuretic Peptide for Differentiation of Constrictive Pericardial Disease from Restrictive Cardiomyopathy. <i>American Journal of Cardiology</i> , 2008, 102, 357-362.	0.7	34
94	Value of Interactive Scanning for Improving the Outcome of New-Learners in Transcontinental Tele-Echocardiography (VISION-in-Tele-Echo) Study. <i>Journal of the American Society of Echocardiography</i> , 2015, 28, 75-87.	1.2	34
95	Cardioprotective Effects of HSP72 Administration on Ischemia-Reperfusion Injury. <i>Journal of the American College of Cardiology</i> , 2017, 70, 1479-1492.	1.2	34
96	A low-cost texture-based pipeline for predicting myocardial tissue remodeling and fibrosis using cardiac ultrasound. <i>EBioMedicine</i> , 2020, 54, 102726.	2.7	34
97	Robotic aortic valve replacement. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021, 161, 1753-1759.	0.4	34
98	Machine learning for nuclear cardiology: The way forward. <i>Journal of Nuclear Cardiology</i> , 2019, 26, 1755-1758.	1.4	33
99	Longitudinal and Circumferential Strain in Patients with Regional LV Dysfunction. <i>Current Cardiology Reports</i> , 2013, 15, 339.	1.3	32
100	Feature Tracking-Derived Peak Systolic Strain Compared to Late Gadolinium Enhancement in Troponin-Positive Myocarditis: A Case-Control Study. <i>Pediatric Cardiology</i> , 2016, 37, 696-703.	0.6	32
101	The Role of Artificial Intelligence in Echocardiography. <i>Current Cardiology Reports</i> , 2020, 22, 99.	1.3	32
102	Hypertrophic obstructive cardiomyopathy and sleep-disordered breathing: an unfavorable combination. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2009, 6, 14-15.	3.3	31
103	Myocardial Mechanics in Cardiomyopathies. <i>Progress in Cardiovascular Diseases</i> , 2014, 57, 111-124.	1.6	31
104	Doppler tissue imaging improves assessment of abnormal interventricular septal and posterior wall motion in constrictive pericarditis. <i>Journal of the American Society of Echocardiography</i> , 2005, 18, 226-230.	1.2	30
105	A pilot study to assess the use of protein A immunoabsorption for chronic dilated cardiomyopathy. <i>Journal of Clinical Apheresis</i> , 2007, 22, 210-214.	0.7	30
106	Functional Strain-Line Pattern in the Human Left Ventricle. <i>Physical Review Letters</i> , 2012, 109, 048103.	2.9	30
107	Relationship of contrast-enhanced magnetic resonance imaging-derived intramural scar distribution and speckle tracking echocardiography-derived left ventricular two-dimensional strains. <i>European Heart Journal Cardiovascular Imaging</i> , 2012, 13, 152-158.	0.5	30
108	Selective echocardiographic analysis of epicardial and endocardial left ventricular rotational mechanics in an animal model of pericardial adhesions. <i>European Journal of Echocardiography</i> , 2009, 10, 357-362.	2.3	29

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109	Feasibility of Intercity and Trans-Atlantic Telerobotic Remote Ultrasound. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 804-809.	2.3	29
110	The Role of Artificial Intelligence in Cardiovascular Imaging: State of the Art Review. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 618849.	1.1	29
111	Quantification of Regional Nonuniformity and Paradoxical Intramural Mechanics in Hypertrophic Cardiomyopathy by High Frame Rate Ultrasound Myocardial Strain Mapping. <i>Journal of the American Society of Echocardiography</i> , 2005, 18, 737-742.	1.2	28
112	Transthoracic Echocardiography Guidance forÂTAVR Under Monitored Anesthesia Care. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 379-380.	2.3	28
113	Artificial Intelligence-Based Assessment of Left Ventricular Filling Pressures From 2-Dimensional Cardiac Ultrasound Images. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 509-510.	2.3	28
114	Gestational changes in left ventricular myocardial contractile function: new insights from two-dimensional speckle tracking echocardiography. <i>International Journal of Cardiovascular Imaging</i> , 2017, 33, 69-82.	0.7	26
115	Molecular Imaging of Apoptosis in IschemiaÂReperfusion Injury With RadiolabeledÂDuramycin Targeting Phosphatidylethanolamine. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1823-1833.	2.3	25
116	Speckle tracking echocardiography derived 2-dimensional myocardial strain predicts left ventricular function and mass regression in aortic stenosis patients undergoing aortic valve replacement. <i>International Journal of Cardiovascular Imaging</i> , 2013, 29, 797-808.	0.7	24
117	New Cardiac Imaging Algorithms to Diagnose Constrictive Pericarditis Versus Restrictive Cardiomyopathy. <i>Current Cardiology Reports</i> , 2017, 19, 43.	1.3	24
118	Machine learning for predicting cardiac events: what does the future hold?. <i>Expert Review of Cardiovascular Therapy</i> , 2020, 18, 77-84.	0.6	24
119	A Network-Based â€œPhenomicsâ€ Approach for Discovering Patient Subtypes From High-Throughput Cardiac Imaging Data. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1655-1670.	2.3	24
120	Cardiovascular Imaging and Diagnostic Procedures in Pregnancy. <i>Cardiology Clinics</i> , 2012, 30, 331-341.	0.9	23
121	Relationship of Transmural Variations in Myofiber Contractility to Left Ventricular Ejection Fraction: Implications for Modeling Heart Failure Phenotype With Preserved Ejection Fraction. <i>Frontiers in Physiology</i> , 2018, 9, 1003.	1.3	22
122	Percutaneous Closure of Peridevice Leak After Left Atrial Appendage Occlusion. <i>JACC: Cardiovascular Interventions</i> , 2018, 11, e83-e85.	1.1	22
123	Intelligent Platforms for Disease Assessment. <i>JACC: Cardiovascular Imaging</i> , 2013, 6, 1206-1211.	2.3	21
124	Machine Learning for Data-DrivenÂDiscovery. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 690-692.	2.3	21
125	Cardiac Imaging in the Post-ISCHEMIA Trial Era. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1815-1833.	2.3	21
126	Left Ventricular Muscle and Fluid Mechanics in Acute Myocardial Infarction. <i>American Journal of Cardiology</i> , 2010, 106, 1404-1409.	0.7	20

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127	Computational Modeling Studies of the Roles of Left Ventricular Geometry, Afterload, and Muscle Contractility on Myocardial Strains in Heart Failure with Preserved Ejection Fraction. <i>Journal of Cardiovascular Translational Research</i> , 2021, 14, 1131-1145.	1.1	20
128	A vital sign-based prediction algorithm for differentiating COVID-19 versus seasonal influenza in hospitalized patients. <i>Npj Digital Medicine</i> , 2021, 4, 95.	5.7	20
129	The Dynamic Vortex of a Beating Heart. <i>Journal of the American College of Cardiology</i> , 2014, 64, 1722-1724.	1.2	19
130	Global Longitudinal Shortening. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1566-1567.	2.3	19
131	Transoesophageal echocardiography. <i>Heart</i> , 2005, 91, 541-547.	1.2	18
132	Vortex imaging: new information gain from tracking cardiac energy loss. <i>European Heart Journal Cardiovascular Imaging</i> , 2015, 16, 719-720.	0.5	18
133	Artificial Intelligence in Nuclear Cardiology: Adding Value to Prognostication. <i>Current Cardiovascular Imaging Reports</i> , 2019, 12, 1.	0.4	18
134	Deep neural survival networks for cardiovascular risk prediction: The Multi-Ethnic Study of Atherosclerosis (MESA). <i>Computers in Biology and Medicine</i> , 2021, 139, 104983.	3.9	18
135	Exploring Left Ventricular Isovolumic Shortening and Stretch Mechanics – Editorials published in <i>JACC: Cardiovascular Imaging</i> reflect the views of the authors and do not necessarily represent the views of <i>JACC: Cardiovascular Imaging</i> or the American College of Cardiology. <i>JACC: Cardiovascular Imaging</i> , 2009, 2, 212-215.	2.3	17
136	Tissue Doppler Image-Derived Measurements During Isovolumic Contraction Predict Exercise Capacity in Patients With Reduced Left Ventricular Ejection Fraction. <i>JACC: Cardiovascular Imaging</i> , 2010, 3, 1-9.	2.3	17
137	Cardiac Strain as a Universal Biomarker. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 534-536.	2.3	17
138	The Potential of Clinical Phenotyping of Heart Failure With Imaging Biomarkers for Guiding Therapies. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 1056-1071.	2.3	17
139	Incidence, Characteristics and Management of Persistent Peri-Device Flow after Percutaneous Left Atrial Appendage Occlusion. <i>Structural Heart</i> , 2019, 3, 491-498.	0.2	17
140	Rapid Screening for Subclinical Atherosclerosis by Carotid Ultrasound Examination: The HAPPY (Heart) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.9	17
141	Machine Learning of ECG Waveforms to Improve Selection for Testing for Asymptomatic Left Ventricular Dysfunction. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1904-1915.	2.3	17
142	Myocardial deformation and rotational mechanics in revascularized single vessel disease patients 2 years after ST-elevation myocardial infarction. <i>Journal of Cardiovascular Medicine</i> , 2011, 12, 635-642.	0.6	16
143	À LA Mode Atrioventricular Mechanical Coupling. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 109-111.	2.3	15
144	A Summary of the American Society of Echocardiography Foundation Value-Based Healthcare: Summit 2014. <i>Journal of the American Society of Echocardiography</i> , 2015, 28, 755-769.	1.2	15

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145	The whole is greater than the sum of its parts: combining classical statistical and machine intelligence methods in medicine. <i>Heart</i> , 2018, 104, 1228-1228.	1.2	15
146	The Mechanics of Machine Learning: From a Concept to Value. <i>Journal of the American Society of Echocardiography</i> , 2018, 31, 1285-1287.	1.2	14
147	Clinical and Economic Burden of Acute Ischemic Stroke Following Transcatheter Aortic Valve Replacement. <i>Structural Heart</i> , 2019, 3, 72-73.	0.2	14
148	Current Challenges and Recent Updates in Artificial Intelligence and Echocardiography. <i>Current Cardiovascular Imaging Reports</i> , 2020, 13, 1.	0.4	14
149	Artificial Intelligence in Cardiac Imaging. <i>US Cardiology Review</i> , 2020, 13, 110-116.	0.5	14
150	Detection of Subclinical Atherosclerosis in Peripheral Arterial Beds With B-Mode Ultrasound: A Proposal for Guiding the Decision for Medical Intervention and an Artifact-Corrected Volumetric Scoring Index. <i>Global Heart</i> , 2020, 9, 367.	0.9	13
151	Development and validation of optimal phenomapping methods to estimate long-term atherosclerotic cardiovascular disease risk in patients with type 2 diabetes. <i>Diabetologia</i> , 2021, 64, 1583-1594.	2.9	13
152	Cardiovascular Imaging Through the Prism of Modern Metrics. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1256-1269.	2.3	13
153	LV Segmentation and Mechanics in HCM: Twisting the Rubik's Cube Into Perfection!. <i>JACC: Cardiovascular Imaging</i> , 2012, 5, 765-768.	2.3	12
154	Left Ventricular Rotational Mechanics before and after Exercise in Children. <i>Journal of the American Society of Echocardiography</i> , 2014, 27, 1336-1343.	1.2	12
155	Clinical Inference From Cardiovascular Imaging: Paradigm Shift Towards Machine-Based Intelligent Platform. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2020, 22, 1.	0.4	12
156	Doppler Strain Imaging Closely Reflects Myocardial Energetic Status in Acute Progressive Ischemia and Indicates Energetic Recovery After Reperfusion. <i>Journal of the American Society of Echocardiography</i> , 2008, 21, 961-968.	1.2	11
157	CT assessment of the left atrial appendage post-transcatheter occlusion – A systematic review and meta analysis. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 348-355.	0.7	11
158	Increase in the Late Diastolic Filling Force Is Associated With Impaired Transmitral Flow Efficiency in Acute Moderate Elevation of Left Ventricular Afterload. <i>Journal of Ultrasound in Medicine</i> , 2009, 28, 175-182.	0.8	10
159	Non-uniform recovery of left ventricular transmural mechanics in ST-segment elevation myocardial infarction. <i>Cardiovascular Ultrasound</i> , 2010, 8, 31.	0.5	10
160	Usefulness of Semisupervised Machine-Learning-Based Phenogrouping to Improve Risk Assessment for Patients Undergoing Transcatheter Aortic Valve Implantation. <i>American Journal of Cardiology</i> , 2020, 136, 122-130.	0.7	10
161	Parametric Detection and Measurement of Perfusion Defects in Attenuated Contrast Echocardiographic Images. <i>Journal of Ultrasound in Medicine</i> , 2007, 26, 739-748.	0.8	9
162	Left Ventricular Transmural Mechanics: Tracking Opportunities In-Depth. <i>Journal of the American Society of Echocardiography</i> , 2009, 22, 1022-1024.	1.2	9

#	ARTICLE	IF	CITATIONS
163	Reply. Journal of the American College of Cardiology, 2017, 69, 2101-2102.	1.2	9
164	Comparison of transesophageal and transthoracic echocardiography under moderate sedation for guiding transcatheter aortic valve replacement. Journal of Animal Science and Technology, 2018, 5, 79-87.	0.8	9
165	Cardiac mechanics in heart failure with preserved ejection fraction. Echocardiography, 2020, 37, 1936-1943.	0.3	9
166	Association Between Breast Arterial Calcification on Mammography and Coronary Artery Disease: A Systematic Review and Meta-Analysis. Journal of Women's Health, 2022, 31, 1719-1726.	1.5	9
167	Cardiovascular Imaging and Intervention Through the Lens of Artificial Intelligence. Interventional Cardiology Review, 2021, 16, e31.	0.7	9
168	Intraprocedural TAVR Annulus Sizing Using 3D TEE and the "Turnaround Rule". JACC: Cardiovascular Imaging, 2016, 9, 213-215.	2.3	8
169	Toward Precision in Balloon-Expandable TAVR. JACC: Cardiovascular Interventions, 2017, 10, 821-823.	1.1	8
170	How to interpret an echocardiography report (for the non-imager)?. Heart, 2017, 103, 1733-1744.	1.2	8
171	3-Dimensional "Printed" Models for TAVR Planning. JACC: Cardiovascular Imaging, 2017, 10, 732-734.	2.3	8
172	Imaging Heart Failure With Artificial Intelligence. Circulation: Cardiovascular Imaging, 2018, 11, e007723.	1.3	8
173	The Many Dimensions of Diastolic Function. JACC: Cardiovascular Imaging, 2018, 11, 409-410.	2.3	8
174	Genetically determined pattern of left ventricular function in normal and hypertensive hearts. Journal of Clinical Hypertension, 2018, 20, 949-958.	1.0	8
175	Is TAVR Ready for the Global Aging Population?. Global Heart, 2017, 12, 291.	0.9	8
176	Cardiac Involvement in the COVID-19 Pandemic. JACC: Cardiovascular Imaging, 2020, 13, 2480-2483.	2.3	8
177	Effect of Head-Up Tilt-Table Testing on Left Ventricular Longitudinal Strain in Patients With Neurocardiogenic Syncope. American Journal of Cardiology, 2013, 112, 1252-1257.	0.7	7
178	Myocardial Stretch in Early Systole is a Key Determinant of the Synchrony of Left Ventricular Mechanical Activity in vivo. Circulation Journal, 2013, 77, 2526-2534.	0.7	7
179	Post-Extrasystolic Transaortic Valve Gradients Differentiate "Pseudo" and "True" Low-Flow, Low-Gradient Severe AS During Dobutamine Stress Echocardiography. JACC: Cardiovascular Imaging, 2017, 10, 1199-1200.	2.3	7
180	Management of Peridevice Leak Following Left Atrial Appendage Occlusion. JACC: Clinical Electrophysiology, 2018, 4, 967-969.	1.3	7

#	ARTICLE	IF	CITATIONS
181	Solving coronary risk: time to feed machines some calcium (score) supplements. <i>European Heart Journal</i> , 2019, 41, 368-370.	1.0	7
182	Classification of acute myocardial ischemia by artificial neural network using echocardiographic strain waveforms. <i>Computers in Biology and Medicine</i> , 2008, 38, 416-424.	3.9	6
183	Adding Dimensions to Unimodal Cardiac Images. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 816-818.	2.3	6
184	Echocardiographic Investigations of Myocardial Function in Mitral Stenosis: Making Sense of the Echolalia. <i>Cardiology</i> , 2011, 119, 142-144.	0.6	6
185	Usefulness of Speckle Tracking Strain Echocardiography for Assessment of Risk of Ventricular Arrhythmias After Placement of a Left Ventricular Assist Device. <i>American Journal of Cardiology</i> , 2017, 120, 1578-1583.	0.7	6
186	Annular rupture during transcatheter aortic valve replacement: novel treatment with amplatzer vascular plugs. <i>European Heart Journal</i> , 2018, 39, 714-715.	1.0	6
187	Transcatheter Closure of a Sinus Venous Atrial Septal Defect Via Transhepatic Access. <i>JACC: Cardiovascular Interventions</i> , 2018, 11, e113-e115.	1.1	6
188	Comparing sedation vs. general anaesthesia in transoesophageal echocardiography-guided percutaneous transcatheter mitral valve repair: a meta-analysis. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 511-521.	0.5	6
189	Does Implantation of Sonomicrometry Crystals Alter Regional Cardiac Muscle Function?. <i>Journal of the American Society of Echocardiography</i> , 2007, 20, 1407-1412.	1.2	5
190	Pacing polarity and left ventricular mechanical activation sequence in cardiac resynchronization therapy. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2012, 35, 101-107.	0.6	5
191	Keeping Off the Wrong Track on the Right Side. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 232-234.	2.3	5
192	Molecular Imaging of Apoptosis in Cancer Therapy-Related Cardiac Dysfunction Before LVEF Reduction. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1203-1205.	2.3	5
193	HIV related stigma, perceived social support and risk of premature atherosclerosis in South Asians. <i>Indian Heart Journal</i> , 2018, 70, 630-636.	0.2	5
194	Prediction of coronary artery calcium scoring from surface electrocardiogram in atherosclerotic cardiovascular disease: a pilot study. <i>European Heart Journal Digital Health</i> , 2020, 1, 51-61.	0.7	5
195	Machine Learning in Cardiovascular Imaging. <i>Heart Failure Clinics</i> , 2022, 18, 245-258.	1.0	5
196	Role of Biplane Echocardiography in a Large-volume Clinical Practice: Revamping Strategies for Echocardiography in a Limited Time. <i>Journal of the American Society of Echocardiography</i> , 2005, 18, 757-760.	1.2	4
197	IMAGING BASED BIG DATA AND MACHINE LEARNING FRAMEWORK FOR RAPID PHENOTYPING OF LEFT VENTRICULAR DIASTOLIC FUNCTION. <i>Journal of the American College of Cardiology</i> , 2016, 67, 1614.	1.2	4
198	Beamforming algorithms for endocardial border detection. <i>Echocardiography</i> , 2018, 35, 1499-1506.	0.3	4

#	ARTICLE	IF	CITATIONS
199	Ticagrelor after pharmacological thrombolysis in patients with ST-segment elevation myocardial infarctions: insight from a trial sequential analysis. <i>Journal of Thrombosis and Thrombolysis</i> , 2019, 48, 661-667.	1.0	4
200	Imaging Is the Cornerstone of the Management of Aortic Valve Stenosis. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 220-223.	2.3	4
201	Building Trust in AI. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 520-522.	2.3	4
202	Imaging With Deep Learning. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 547-549.	2.3	4
203	Parametric harmonic-to-fundamental ratio contrast echocardiography: A novel approach to identification and accurate measurement of left ventricular area under variable levels of ultrasound signal attenuation. <i>Ultrasonics</i> , 2007, 46, 109-118.	2.1	3
204	Bibliographic Metrics at <i>JACC: Cardiovascular Imaging</i> . <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 1050-1051.	2.3	3
205	TAVR-Related Complications. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 100-103.	2.3	3
206	Risk-Stratifying COVID-19 Patients the Right Way. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2300-2303.	2.3	3
207	AI-Powered Navigation System for Steering POCUS in the COVID-ICU. <i>JACC: Case Reports</i> , 2021, 3, 264-266.	0.3	3
208	Index Admission and Thirty-Day Readmission Outcomes of Patients With Cancer Presenting With STEMI. <i>Cardiovascular Revascularization Medicine</i> , 2022, 35, 121-128.	0.3	3
209	The Dynamics of Mitral Valve Function: Lessons to Be Learned From Three-Dimensional Echocardiography. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2014, 28, 8-10.	0.6	2
210	Dynamic Changes in LV Radius as a Marker of Septal Configuration for Predicting RV Failure Following LVAD Implantation. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 598-599.	2.3	2
211	The New Wave of Cardiovascular Biomechanics. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1297-1299.	2.3	2
212	Non-invasive prediction of tissue Doppler-derived $E/e^{\prime 2}$ ratio using lung Doppler signals. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 994-1004.	0.5	2
213	AI tracks a beating heart's function over time. <i>Nature</i> , 2020, 580, 192-194.	13.7	2
214	3D Transesophageal Echocardiography for Guiding Transcatheter Aortic Valve Replacement Without Prior Cardiac Computed Tomography in Patients With Renal Dysfunction. <i>Cardiovascular Revascularization Medicine</i> , 2022, 41, 63-68.	0.3	2
215	Regional dyssynergy of the interventricular septum after septal artery occlusion in hypertrophic obstructive cardiomyopathy: use of quantitative Doppler tissue and strain rate imaging. <i>Journal of the American Society of Echocardiography</i> , 2004, 17, 384-386.	1.2	1
216	A Rising Paradigm of Appropriateness. <i>Journal of the American Society of Echocardiography</i> , 2010, 23, 1205-1206.	1.2	1

#	ARTICLE	IF	CITATIONS
217	Intramyocardial Hemorrhage after Percutaneous Coronary Intervention. <i>Echocardiography</i> , 2012, 29, E50-1.	0.3	1
218	Setting global standards in adult echocardiography: Where are we?. <i>Indian Heart Journal</i> , 2015, 67, 298-301.	0.2	1
219	Learning to think like Machines. <i>Indian Heart Journal</i> , 2018, 70, 469-470.	0.2	1
220	Embolic Protection Devices in Transcatheter Aortic Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2018, 11, 1274-1276.	1.1	1
221	TOPOLOGICAL DATA ANALYSIS FOR QUANTIFYING INTER-PATIENT SIMILARITIES IN CARDIAC FUNCTION. <i>Journal of the American College of Cardiology</i> , 2019, 73, 751.	1.2	1
222	Double-Orifice Mitral Valve Associated with Bicuspid Aortic Valve and Primary Pulmonary Vein Stenosis. <i>Case</i> , 2020, 4, 152-154.	0.1	1
223	ECG for Screening Cardiac Abnormalities: The Premise and Promise of Machine Learning. <i>Circulation: Cardiovascular Imaging</i> , 2021, 14, e012837.	1.3	1
224	Predicting Preclinical Heart Failure Progression. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 209-211.	2.3	1
225	Is left ventricular hypertrabeculation/noncompaction dependent on ventricular shape and function? Reply. <i>American Journal of Cardiology</i> , 2005, 95, 922-923.	0.7	0
226	Letter by Sengupta et al Regarding Article, "Mechanisms of Preejection and Postejction Velocity Spikes in Left Ventricular Myocardium: Interaction Between Wall Deformation and Valve Events". <i>Circulation</i> , 2009, 119, e204; author reply e205.	1.6	0
227	Cardiac Resynchronization: The Flow of Activation Sequence. <i>JACC: Cardiovascular Imaging</i> , 2013, 6, 924-926.	2.3	0
228	Valve-Sparing Aortic Root Replacement for Rapidly Growing Multiple Sinus of Valsalva Pseudoaneurysms in a Case of Behçet's-Like Aortitis. <i>Annals of Thoracic Surgery</i> , 2013, 96, e23.	0.7	0
229	Authors' Reply. <i>Journal of the American Society of Echocardiography</i> , 2015, 28, 375-376.	1.2	0
230	The Symphony, the Ensemble, and the Interventional Imager. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 384-387.	2.3	0
231	Reply. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 383.	2.3	0
232	Speckle Tracking Echocardiographic Imaging in Metabolic Cardiomyopathies. <i>Current Cardiovascular Imaging Reports</i> , 2016, 9, 1.	0.4	0
233	FV-HSP70 PROTECTS MYOCARDIUM FROM ISCHEMIC/REPERFUSION INJURY. <i>Journal of the American College of Cardiology</i> , 2017, 69, 38.	1.2	0
234	CONCORDANCE OF CONVENTIONAL 2D-DOPPLER VERSUS SPECKLE TRACKING ECHOCARDIOGRAPHY-BASED CLASSIFICATION OF LEFT VENTRICULAR DIASTOLIC FUNCTION. <i>Journal of the American College of Cardiology</i> , 2017, 69, 1549.	1.2	0

#	ARTICLE	IF	CITATIONS
235	Physical Function and Well-Being in HFpEF. JACC: Cardiovascular Imaging, 2018, 11, 1934-1936.	2.3	0
236	Challenging Scenario of Aortic Valve Tendon Masquerading as Aortic Dissection During Transcatheter Aortic Valve Replacement. JACC: Case Reports, 2019, 1, 59-61.	0.3	0
237	MACHINE LEARNING PREDICTED FILLING PRESSURES FROM LUNG DOPPLER SIGNALS (LDS) PROVIDE A NOVEL METHOD TO MONITOR PULMONARY CONGESTION IN CONGESTIVE HEART FAILURE PATIENTS. Journal of the American College of Cardiology, 2019, 73, 715.	1.2	0
238	ULTRASOUND TISSUE TEXTURE-BASED ANALYSIS OF MYOCARDIAL FIBROSIS: RADIOMICS AND MACHINE LEARNING APPROACH. Journal of the American College of Cardiology, 2020, 75, 3564.	1.2	0
239	CORONARY COMPUTED TOMOGRAPHY ANGIOGRAPHY VERSUS STRESS ECHOCARDIOGRAPHY FOR ACUTE CHEST PAIN: A BAYESIAN META-ANALYSIS OF RANDOMIZED TRIALS. Journal of the American College of Cardiology, 2020, 75, 1742.	1.2	0
240	The Author Reply:. JACC: Cardiovascular Imaging, 2020, 13, 337-338.	2.3	0
241	UNIQUE ENERGY LOSS PATTERNS AND CORRELATION WITH VORTEX FORMATION FROM INFANCY THROUGH YOUNG ADULTHOOD. Journal of the American College of Cardiology, 2020, 75, 1740.	1.2	0
242	BREAST ARTERIAL CALCIFICATION IN MAMMOGRAM A NOVEL PREDICTOR OF CARDIOVASCULAR RISK IN WOMEN. Journal of the American College of Cardiology, 2020, 75, 1850.	1.2	0
243	Enforcing Quality in Strain Imaging Through AI-Powered Surveillance. JACC: Cardiovascular Imaging, 2021, 14, 346-349.	2.3	0
244	Transesophageal echocardiography probe cover: implementation of a cross-contamination containment strategy during the COVID-19 pandemic. Brazilian Journal of Anesthesiology (Elsevier), 2021, 71, 200-201.	0.2	0
245	Early Tracking of Radiation-Induced Cardiotoxicity. JACC: CardioOncology, 2021, 3, 290-293.	1.7	0
246	Future applications of strain imaging. , 2022, , 220-235.		0
247	Echocardiography in Heart Failure. , 2009, , 435-445.		0
248	Transesophageal Echocardiography: Principles and Application. , 2009, , 101-114.		0