Partho P Sengupta, Dm

List of Publications by Citations

197 papers	10,930 citations	50 h-index	100 g-index
291 ext. papers	13,548 ext. citations	5.7 avg, IF	6.46 L-index

#	Paper	IF	Citations
197	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. *Journal of the American Society of Echocardiography*, **2011**, 24, 277-313	5.8	808
196	Assessment of myocardial mechanics using speckle tracking echocardiography: fundamentals and clinical applications. *Journal of the American Society of Echocardiography*, **2010**, 23, 351-69; quiz 453-5	5.8	743
195	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	4.1	541
194	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	4.1	433
193	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, 183-93	5.8	428
192	Twist mechanics of the left ventricle: principles and application. *JACC: Cardiovascular Imaging*, **2008**, 1, 366-76	8.4	381
191	Left ventricular structure and function: basic science for cardiac imaging. *Journal of the American College of Cardiology*, **2006**, 48, 1988-2001	15.1	345
190	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, 1247-53	5.8	310
189	Tissue Tracking Technology for Assessing Cardiac Mechanics: Principles, Normal Values, and Clinical Applications. *JACC: Cardiovascular Imaging*, **2015**, 8, 1444-1460	8.4	236
188	Left ventricular form and function revisited: applied translational science to cardiovascular ultrasound imaging. *Journal of the American Society of Echocardiography*, **2007**, 20, 539-51	5.8	223
187	Machine learning in cardiovascular medicine: are we there yet?. *Heart*, **2018**, 104, 1156-1164	5.1	195
186	Mobile technology and the digitization of healthcare. *European Heart Journal*, **2016**, 37, 1428-38	9.5	191
185	Machine-Learning Algorithms to Automate Morphological and Functional Assessments in 2D Echocardiography. *Journal of the American College of Cardiology*, **2016**, 68, 2287-2295	15.1	187
184	Artificial Intelligence in Cardiovascular Imaging: JACC State-of-the-Art Review. *Journal of the American College of Cardiology*, **2019**, 73, 1317-1335	15.1	186
183	Standardized imaging for aortic annular sizing: implications for transcatheter valve selection. *JACC: Cardiovascular Imaging*, **2013**, 6, 249-62	8.4	179
182	Emerging trends in CV flow visualization. *JACC: Cardiovascular Imaging*, **2012**, 5, 305-16	8.4	174
181	Apex-to-base dispersion in regional timing of left ventricular shortening and lengthening. *Journal of the American College of Cardiology*, **2006**, 47, 163-72	15.1	171

180	Takotsubo cardiomyopathy: a unique cardiomyopathy with variable ventricular morphology. *JACC: Cardiovascular Imaging*, **2010**, 3, 641-9	8.4	166
179	Left ventricular isovolumic flow sequence during sinus and paced rhythms: new insights from use of high-resolution Doppler and ultrasonic digital particle imaging velocimetry. *Journal of the American College of Cardiology*, **2007**, 49, 899-908	15.1	138
178	Sphingosine-1-Phosphate Receptor Agonist Fingolimod Increases Myocardial Salvage and Decreases Adverse Postinfarction Left Ventricular Remodeling in a Porcine Model of Ischemia/Reperfusion. *Circulation*, **2016**, 133, 954-66	16.7	127
177	Fully Automated Versus Standard Tracking of Left Ventricular Ejection Fraction and Longitudinal Strain: The FAST-EFs Multicenter Study. *Journal of the American College of Cardiology*, **2015**, 66, 1456-66	15.1	118
176	Cognitive Machine-Learning Algorithm for Cardiac Imaging: A Pilot Study for Differentiating Constrictive Pericarditis From Restrictive Cardiomyopathy. *Circulation: Cardiovascular Imaging*, **2016** , 9,	3.9	114
175	Disparate patterns of left ventricular mechanics differentiate constrictive pericarditis from restrictive cardiomyopathy. *JACC: Cardiovascular Imaging*, **2008**, 1, 29-38	8.4	104
174	Minimizing cardiotoxicity while optimizing treatment efficacy with trastuzumab: review and expert recommendations. *Oncologist*, **2009**, 14, 1-11	5.7	100
173	Global left atrial strain correlates with CHADS2 risk score in patients with atrial fibrillation. *Journal of the American Society of Echocardiography*, **2011**, 24, 506-12	5.8	87
172	Pulmonary hypertension in valvular disease: a comprehensive review on pathophysiology to therapy from the HAVEC Group. *JACC: Cardiovascular Imaging*, **2015**, 8, 83-99	8.4	85
171	U.S. Hospital Use of Echocardiography: Insights From the Nationwide Inpatient Sample. *Journal of the American College of Cardiology*, **2016**, 67, 502-11	15.1	84
170	Twist and untwist mechanics of the left ventricle. *Heart Failure Clinics*, **2008**, 4, 315-24	3.3	84
169	Contrast echocardiography for assessing left ventricular vortex strength in heart failure: a prospective cohort study. *European Heart Journal Cardiovascular Imaging*, **2013**, 14, 1049-60	4.1	81
168	Biphasic tissue Doppler waveforms during isovolumic phases are associated with asynchronous deformation of subendocardial and subepicardial layers. *Journal of Applied Physiology*, **2005**, 99, 1104-11	3.7	81
167	High spatial resolution speckle tracking improves accuracy of 2-dimensional strain measurements: an update on a new method in functional echocardiography. *Journal of the American Society of Echocardiography*, **2007**, 20, 165-70	5.8	79
166	American Society of Echocardiography: Remote Echocardiography with Web-Based Assessments for Referrals at a Distance (ASE-REWARD) Study. *Journal of the American Society of Echocardiography*, **2013**, 26, 221-33	5.8	77
165	Severity of cardiomyopathy associated with adenine nucleotide translocator-1 deficiency correlates with mtDNA haplogroup. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 3453-8	11.5	76
164	Characterization of right ventricular remodeling and failure in a chronic pulmonary hypertension model. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 307, H1204-15	5.2	74
163	Reclassifying heart failure: predominantly subendocardial, subepicardial, and transmural. *Heart Failure Clinics*, **2008**, 4, 379-82	3.3	71

162	High Prevalence of Pericardial Involvement in College Student Athletes Recovering From COVID-19. *JACC: Cardiovascular Imaging*, **2021**, 14, 541-555	8.4	69
161	Left ventricular twist and torsion: research observations and clinical applications. *Circulation: Cardiovascular Imaging*, **2015**, 8,	3.9	66
160	Assessment of transmitral vortex formation in patients with diastolic dysfunction. *Journal of the American Society of Echocardiography*, **2012**, 25, 220-7	5.8	66
159	Left atrial reservoir function predicts atrial fibrillation recurrence after catheter ablation: a two-dimensional speckle strain study. *Journal of Interventional Cardiac Electrophysiology*, **2011**, 31, 197-206	2.4	66
158	Characterization and clinical significance of right ventricular mechanics in pulmonary hypertension evaluated with cardiovascular magnetic resonance feature tracking. *Journal of Cardiovascular Magnetic Resonance*, **2016**, 18, 39	6.9	66
157	Patent foramen ovale: the known and the to be known. *Journal of the American College of Cardiology*, **2012**, 59, 1665-71	15.1	64
156	Natural history of left ventricular mechanics in transplanted hearts: relationships with clinical variables and genetic expression profiles of allograft rejection. *JACC: Cardiovascular Imaging*, **2010**, 3, 989-1000	8.4	63
155	Handheld Echocardiography: Current State and Future Perspectives. *Circulation*, **2017**, 136, 2178-2188	16.7	62
154	Role of echocardiography in the diagnosis of constrictive pericarditis. *Journal of the American Society of Echocardiography*, **2009**, 22, 24-33; quiz 103-4	5.8	62
153	Regression of Paravalvular Aortic Regurgitation and Remodeling of Self-Expanding Transcatheter Aortic Valve: An Observation From the CoreValve U.S. Pivotal Trial. *JACC: Cardiovascular Imaging*, **2015**, 8, 1364-1375	8.4	59
152	Comparison of echocardiographic features of noncompaction of the left ventricle in adults versus idiopathic dilated cardiomyopathy in adults. *American Journal of Cardiology*, **2004**, 94, 389-91	3	58
151	Assessment of longitudinal myocardial mechanics in patients with degenerative mitral valve regurgitation predicts postoperative worsening of left ventricular systolic function. *Journal of the American Society of Echocardiography*, **2014**, 27, 627-38	5.8	53
150	Precision Phenotyping in Heart Failure and Pattern Clustering of Ultrasound Data for the Assessment of Diastolic Dysfunction. *JACC: Cardiovascular Imaging*, **2017**, 10, 1291-1303	8.4	50
149	Three-dimensional principal strain analysis for characterizing subclinical changes in left ventricular function. *Journal of the American Society of Echocardiography*, **2014**, 27, 1041-1050.e1	5.8	50
148	Management of asymptomatic severe aortic stenosis. *Journal of the American College of Cardiology*, **2008**, 52, 1279-92	15.1	49
147	Phenotypic Clustering of Left Ventricular Diastolic Function Parameters: Patterns and Prognostic Relevance. *JACC: Cardiovascular Imaging*, **2019**, 12, 1149-1161	8.4	49
146	PREDICTIVE MODELING OF HOSPITAL READMISSION RATES USING ELECTRONIC MEDICAL RECORD-WIDE MACHINE LEARNING: A CASE-STUDY USING MOUNT SINAI HEART FAILURE COHORT. *Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing*, **2017**, 22, 276-287	1.3	48
145	Constrictive pericarditis. *Circulation Journal*, **2008**, 72, 1555-62	2.9	48

144	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, 886-90	3	48
143	Artificial Intelligence: Practical Primer for Clinical Research in Cardiovascular Disease. *Journal of the American Heart Association*, **2019**, 8, e012788	6	46
142	High prevalence of abnormal nocturnal oximetry in patients with hypertrophic cardiomyopathy. *Journal of the American College of Cardiology*, **2009**, 54, 1805-9	15.1	45
141	Advances in Echocardiographic Imaging in Heart Failure With Reduced and Preserved Ejection Fraction. *Circulation Research*, **2016**, 119, 357-74	15.7	43
140	Enabling Precision Cardiology Through Multiscale Biology and Systems Medicine. *JACC Basic To Translational Science*, **2017**, 2, 311-327	8.7	42
139	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	8.4	42
138	Prediction of Abnormal Myocardial Relaxation From Signal Processed Surface ECG. *Journal of the American College of Cardiology*, **2018**, 71, 1650-1660	15.1	40
137	LV mechanics in mitral and aortic valve diseases: value of functional assessment beyond ejection fraction. *JACC: Cardiovascular Imaging*, **2014**, 7, 1151-66	8.4	39
136	Role of left ventricular twist mechanics in the assessment of cardiac dyssynchrony in heart failure. *JACC: Cardiovascular Imaging*, **2009**, 2, 1425-35	8.4	39
135	Multimodality Imaging Strategies for the Assessment of Aortic Stenosis: Viewpoint of the Heart Valve Clinic International Database (HAVEC) Group. *Circulation: Cardiovascular Imaging*, **2016**, 9, e004352	3.9	38
134	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, 639-47	5.8	37
133	Robot-assisted remote echocardiographic examination and teleconsultation: a randomized comparison of time to diagnosis with standard of care referral approach. *JACC: Cardiovascular Imaging*, **2014**, 7, 799-803	8.4	37
132	Diagnostic concordance of echocardiography and cardiac magnetic resonance-based tissue tracking for differentiating constrictive pericarditis from restrictive cardiomyopathy. *Circulation: Cardiovascular Imaging*, **2014**, 7, 819-27	3.9	37
131	Application of mobile health, telemedicine and artificial intelligence to echocardiography. *Echo Research and Practice*, **2019**, 6, R41-R52	2	37
130	Trastuzumab-induced cardiotoxicity: heart failure at the crossroads. *Mayo Clinic Proceedings*, **2008**, 83, 197-203	6.4	36
129	Network Tomography for Understanding Phenotypic Presentations in Aortic Stenosis. *JACC: Cardiovascular Imaging*, **2019**, 12, 236-248	8.4	35
128	Multimodality Cardiovascular Imaging in the Midst of the COVID-19 Pandemic: Ramping Up Safely to a New Normal. *JACC: Cardiovascular Imaging*, **2020**, 13, 1615-1626	8.4	35
127	Mitochondrial DNA Variation Dictates Expressivity and Progression of Nuclear DNA Mutations Causing Cardiomyopathy. *Cell Metabolism*, **2019**, 29, 78-90.e5	24.6	35

126	Artificial Intelligence in Cardiovascular Medicine. *Current Treatment Options in Cardiovascular Medicine*, **2019**, 21, 25	2.1	34
125	Proposed Requirements for Cardiovascular Imaging-Related Machine Learning Evaluation (PRIME): A Checklist: Reviewed by the American College of Cardiology Healthcare Innovation Council. *JACC: Cardiovascular Imaging*, **2020**, 13, 2017-2035	8.4	34
124	A Randomized Trial of Pocket-Echocardiography Integrated Mobile Health Device Assessments in Modern Structural Heart Disease Clinics. *JACC: Cardiovascular Imaging*, **2018**, 11, 546-557	8.4	31
123	Self-Expanding Transcatheter Aortic Valve Replacement Versus Surgical Valve Replacement in Patients at High Risk for Surgery: A Study of Echocardiographic Change and Risk Prediction. *Circulation: Cardiovascular Interventions*, **2016**, 9,	6	31
122	CRT improves LV filling dynamics: insights from echocardiographic particle imaging velocimetry. *JACC: Cardiovascular Imaging*, **2013**, 6, 704-13	8.4	31
121	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, 1322-6	3	31
120	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, 427-31	5.8	31
119	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, 824-8	5.8	31
118	Multiplanar visualization of blood flow using echocardiographic particle imaging velocimetry. *JACC: Cardiovascular Imaging*, **2012**, 5, 566-9	8.4	28
117	Comparison of usefulness of tissue Doppler imaging versus brain natriuretic peptide for differentiation of constrictive pericardial disease from restrictive cardiomyopathy. *American Journal of Cardiology*, **2008**, 102, 357-62	3	27
116	Myocardial mechanics in cardiomyopathies. *Progress in Cardiovascular Diseases*, **2014**, 57, 111-24	8.5	26
115	Relationship of contrast-enhanced magnetic resonance imaging-derived intramural scar distribution and speckle tracking echocardiography-derived left ventricular two-dimensional strains. *European Heart Journal Cardiovascular Imaging*, **2012**, 13, 152-8	4.1	26
114	Value of interactive scanning for improving the outcome of new-learners in transcontinental tele-echocardiography (VISION-in-Tele-Echo) study. *Journal of the American Society of Echocardiography*, **2015**, 28, 75-87	5.8	25
113	Myocardial Mechanics in Patients With Normal LVEF and Diastolic Dysfunction. *JACC: Cardiovascular Imaging*, **2020**, 13, 258-271	8.4	25
112	Longitudinal and circumferential strain in patients with regional LV dysfunction. *Current Cardiology Reports*, **2013**, 15, 339	4.2	24
111	Selective echocardiographic analysis of epicardial and endocardial left ventricular rotational mechanics in an animal model of pericardial adhesions. *European Journal of Echocardiography*, **2009**, 10, 357-62		24
110	A pilot study to assess the use of protein a immunoadsorption for chronic dilated cardiomyopathy. *Journal of Clinical Apheresis*, **2007**, 22, 210-4	3.2	24
109	The Future of Cardiac Imaging: Report of a Think Tank Convened by the American College of Cardiology. *JACC: Cardiovascular Imaging*, **2016**, 9, 1211-1223	8.4	24

108	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	8.4	23
107	Transthoracic echocardiography guidance for TAVR under monitored anesthesia care. *JACC: Cardiovascular Imaging*, **2015**, 8, 379-380	8.4	23
106	Feasibility of intercity and trans-Atlantic telerobotic remote ultrasound: assessment facilitated by a nondedicated bandwidth connection. *JACC: Cardiovascular Imaging*, **2014**, 7, 804-9	8.4	23
105	Cardioprotective Effects of HSP72 Administration on Ischemia-Reperfusion Injury. *Journal of the American College of Cardiology*, **2017**, 70, 1479-1492	15.1	23
104	Hypertrophic obstructive cardiomyopathy and sleep-disordered breathing: an unfavorable combination. *Nature Clinical Practice Cardiovascular Medicine*, **2009**, 6, 14-5		23
103	Functional strain-line pattern in the human left ventricle. *Physical Review Letters*, **2012**, 109, 048103	7.4	23
102	Quantification of regional nonuniformity and paradoxical intramural mechanics in hypertrophic cardiomyopathy by high frame rate ultrasound myocardial strain mapping. *Journal of the American Society of Echocardiography*, **2005**, 18, 737-42	5.8	23
101	Speckle tracking echocardiography derived 2-dimensional myocardial strain predicts left ventricular function and mass regression in aortic stenosis patients undergoing aortic valve replacement. *International Journal of Cardiovascular Imaging*, **2013**, 29, 797-808	2.5	22
100	History of echocardiography and its future applications in medicine. *Critical Care Medicine*, **2007**, 35, S309-13	2.4	22
99	Doppler tissue imaging improves assessment of abnormal interventricular septal and posterior wall motion in constrictive pericarditis. *Journal of the American Society of Echocardiography*, **2005**, 18, 226-30	5.8	21
98	Machine Learning Assessment of Left Ventricular Diastolic Function Based on Electrocardiographic Features. *Journal of the American College of Cardiology*, **2020**, 76, 930-941	15.1	20
97	Feature Tracking-Derived Peak Systolic Strain Compared to Late Gadolinium Enhancement in Troponin-Positive Myocarditis: A Case-Control Study. *Pediatric Cardiology*, **2016**, 37, 696-703	2.1	19
96	Cardiovascular imaging and diagnostic procedures in pregnancy. *Cardiology Clinics*, **2012**, 30, 331-41	2.5	19
95	Molecular Imaging of Apoptosis in Ischemia Reperfusion Injury With Radiolabeled Duramycin Targeting Phosphatidylethanolamine: Effective Target Uptake and Reduced Nontarget Organ Radiation Burden. *JACC: Cardiovascular Imaging*, **2018**, 11, 1823-1833	8.4	18
94	Left ventricular muscle and fluid mechanics in acute myocardial infarction. *American Journal of Cardiology*, **2010**, 106, 1404-9	3	17
93	Transoesophageal echocardiography. *Heart*, **2005**, 91, 541-7	5.1	17
92	Artificial Intelligence-Based Assessment of Left Ventricular Filling Pressures From 2-Dimensional Cardiac Ultrasound Images. *JACC: Cardiovascular Imaging*, **2018**, 11, 509-510	8.4	16
91	Interpatient Similarities in Cardiac Function: A Platform for Personalized Cardiovascular Medicine. *JACC: Cardiovascular Imaging*, **2020**, 13, 1119-1132	8.4	15

90	Intelligent platforms for disease assessment: novel approaches in functional echocardiography. *JACC: Cardiovascular Imaging*, **2013**, 6, 1206-11	8.4	15
89	Myocardial deformation and rotational mechanics in revascularized single vessel disease patients 2 years after ST-elevation myocardial infarction. *Journal of Cardiovascular Medicine*, **2011**, 12, 635-42	1.9	15
88	Gestational changes in left ventricular myocardial contractile function: new insights from two-dimensional speckle tracking echocardiography. *International Journal of Cardiovascular Imaging* , **2017**, 33, 69-82	2.5	14
87	Percutaneous Closure of Peridevice Leak After Left Atrial Appendage Occlusion. *JACC: Cardiovascular Interventions*, **2018**, 11, e83-e85	5	14
86	A low-cost texture-based pipeline for predicting myocardial tissue remodeling and fibrosis using cardiac ultrasound. *EBioMedicine*, **2020**, 54, 102726	8.8	13
85	The Potential of Clinical Phenotyping of Heart Failure With Imaging Biomarkers for Guiding Therapies: A Focused Update. *JACC: Cardiovascular Imaging*, **2017**, 10, 1056-1071	8.4	13
84	Deep-Learning Models for the Echocardiographic Assessment of Diastolic Dysfunction. *JACC: Cardiovascular Imaging*, **2021**, 14, 1887-1900	8.4	13
83	Rapid Screening for Subclinical Atherosclerosis by Carotid Ultrasound Examination: The HAPPY (Heart Attack Prevention Program for You) Substudy. *Global Heart*, **2013**, 8, 83-9	2.9	13
82	Relationship of Transmural Variations in Myofiber Contractility to Left Ventricular Ejection Fraction: Implications for Modeling Heart Failure Phenotype With Preserved Ejection Fraction. *Frontiers in Physiology*, **2018**, 9, 1003	4.6	13
81	New Cardiac Imaging Algorithms to Diagnose Constrictive Pericarditis Versus Restrictive Cardiomyopathy. *Current Cardiology Reports*, **2017**, 19, 43	4.2	12
80	Left ventricular rotational mechanics before and after exercise in children. *Journal of the American Society of Echocardiography*, **2014**, 27, 1336-43	5.8	12
79	The Role of Artificial Intelligence in Echocardiography. *Current Cardiology Reports*, **2020**, 22, 99	4.2	12
78	The whole is greater than the sum of its parts: combining classical statistical and machine intelligence methods in medicine. *Heart*, **2018**, 104, 1228	5.1	11
77	Artificial Intelligence in Nuclear Cardiology: Adding Value to Prognostication. *Current Cardiovascular Imaging Reports*, **2019**, 12, 1	0.7	10
76	A Summary of the American Society of Echocardiography Foundation Value-Based Healthcare: Summit 2014: The Role of Cardiovascular Ultrasound in the New Paradigm. *Journal of the American Society of Echocardiography*, **2015**, 28, 755-69	5.8	10
75	The Role of Artificial Intelligence in Cardiovascular Imaging: State of the Art Review. *Frontiers in Cardiovascular Medicine*, **2020**, 7, 618849	5.4	10
74	Tissue Doppler image-derived measurements during isovolumic contraction predict exercise capacity in patients with reduced left ventricular ejection fraction. *JACC: Cardiovascular Imaging*, **2010**, 3, 1-9	8.4	10
73	Non-uniform recovery of left ventricular transmural mechanics in ST-segment elevation myocardial infarction. *Cardiovascular Ultrasound*, **2010**, 8, 31	2.4	10

72	Cardiac Imaging in the Post-ISCHEMIA Trial Era: A Multisociety Viewpoint. *JACC: Cardiovascular Imaging*, **2020**, 13, 1815-1833	8.4	10
71	Reply: Deep Learning With Unsupervised Feature in Echocardiographic Imaging. *Journal of the American College of Cardiology*, **2017**, 69, 2101-2102	15.1	9
70	Doppler strain imaging closely reflects myocardial energetic status in acute progressive ischemia and indicates energetic recovery after reperfusion. *Journal of the American Society of Echocardiography*, **2008**, 21, 961-8	5.8	9
69	Artificial Intelligence in Cardiac Imaging. *US Cardiology Review*, **2020**, 13, 110-116	0.4	9
68	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. *Global Heart*, **2014**, 9, 367-78	2.9	9
67	Clinical Inference From Cardiovascular Imaging: Paradigm Shift Towards Machine-Based Intelligent Platform. *Current Treatment Options in Cardiovascular Medicine*, **2020**, 22, 1	2.1	8
66	A Network-Based "Phenomics" Approach for Discovering Patient Subtypes From High-Throughput Cardiac Imaging Data. *JACC: Cardiovascular Imaging*, **2020**, 13, 1655-1670	8.4	8
65	Intraprocedural TAVR Annulus Sizing Using 3D TEE and the "Turnaround Rule". *JACC: Cardiovascular Imaging*, **2016**, 9, 213-5	8.4	8
64	Increase in the late diastolic filling force is associated with impaired transmitral flow efficiency in acute moderate elevation of left ventricular afterload. *Journal of Ultrasound in Medicine*, **2009**, 28, 175-82	2.9	8
63	Cardiac mechanics in heart failure with preserved ejection fraction. *Echocardiography*, **2020**, 37, 1936-1943	1.5	7
62	Machine learning for predicting cardiac events: what does the future hold?. *Expert Review of Cardiovascular Therapy*, **2020**, 18, 77-84	2.5	7
61	Clinical and Economic Burden of Acute Ischemic Stroke Following Transcatheter Aortic Valve Replacement. *Structural Heart*, **2019**, 3, 72-73	0.6	7
60	Parametric detection and measurement of perfusion defects in attenuated contrast echocardiographic images. *Journal of Ultrasound in Medicine*, **2007**, 26, 739-48	2.9	7
59	Current Challenges and Recent Updates in Artificial Intelligence and Echocardiography. *Current Cardiovascular Imaging Reports*, **2020**, 13, 1	0.7	6
58	Annular rupture during transcatheter aortic valve replacement: novel treatment with amplatzer vascular plugs. *European Heart Journal*, **2018**, 39, 714-715	9.5	6
57	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	1.6	6
56	How to interpret an echocardiography report (for the non-imager)?. *Heart*, **2017**, 103, 1733-1744	5.1	6
55	Effect of head-up tilt-table testing on left ventricular longitudinal strain in patients with neurocardiogenic syncope. *American Journal of Cardiology*, **2013**, 112, 1252-7	3	6

54	Left ventricular transmural mechanics: tracking opportunities in-depth. *Journal of the American Society of Echocardiography*, **2009**, 22, 1022-4	5.8	6
53	Cardiovascular Imaging Through the Prism of Modern Metrics. *JACC: Cardiovascular Imaging*, **2020**, 13, 1256-1269	8.4	6
52	Computational Modeling Studies of the Roles of Left Ventricular Geometry, Afterload, and Muscle Contractility on Myocardial Strains in Heart Failure with Preserved Ejection Fraction. *Journal of Cardiovascular Translational Research*, **2021**, 14, 1131-1145	3.3	6
51	Is TAVR Ready for the Global Aging Population?. *Global Heart*, **2017**, 12, 291-299	2.9	6
50	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	8.4	5
49	CT assessment of the left atrial appendage post-transcatheter occlusion - A systematic review and meta analysis. *Journal of Cardiovascular Computed Tomography*, **2021**, 15, 348-355	2.8	5
48	Molecular Imaging of Apoptosis in Cancer Therapy-Related Cardiac Dysfunction Before LVEF Reduction. *JACC: Cardiovascular Imaging*, **2018**, 11, 1203-1205	8.4	5
47	Management of Peridevice Leak Following Left Atrial Appendage Occlusion. *JACC: Clinical Electrophysiology*, **2018**, 4, 967-969	4.6	5
46	Myocardial stretch in early systole is a key determinant of the synchrony of left ventricular mechanical activity in vivo. *Circulation Journal*, **2013**, 77, 2526-34	2.9	5
45	Classification of acute myocardial ischemia by artificial neural network using echocardiographic strain waveforms. *Computers in Biology and Medicine*, **2008**, 38, 416-24	7	5
44	Does implantation of sonomicrometry crystals alter regional cardiac muscle function?. *Journal of the American Society of Echocardiography*, **2007**, 20, 1407-12	5.8	5
43	Usefulness of Semisupervised Machine-Learning-Based Phenogrouping to Improve Risk Assessment for Patients Undergoing Transcatheter Aortic Valve Implantation. *American Journal of Cardiology*, **2020**, 136, 122-130	3	5
42	Development and validation of optimal phenomapping methods to estimate long-term atherosclerotic cardiovascular disease risk in patients with type 2 diabetes. *Diabetologia*, **2021**, 64, 1583-1594	10.3	5
41	Genetically determined pattern of left ventricular function in normal and hypertensive hearts. *Journal of Clinical Hypertension*, **2018**, 20, 949-958	2.3	5
40	A Machine-Learning Framework to Identify Distinct Phenotypes of Aortic Stenosis Severity. *JACC: Cardiovascular Imaging*, **2021**, 14, 1707-1720	8.4	5
39	IMAGING BASED BIG DATA AND MACHINE LEARNING FRAMEWORK FOR RAPID PHENOTYPING OF LEFT VENTRICULAR DIASTOLIC FUNCTION. *Journal of the American College of Cardiology*, **2016**, 67, 1614	15.1	4
38	Transcatheter Closure of a Sinus Venosus Atrial Septal Defect Via Transhepatic Access. *JACC: Cardiovascular Interventions*, **2018**, 11, e113-e115	5	4
37	Usefulness of Speckle Tracking Strain Echocardiography for Assessment of Risk of Ventricular Arrhythmias After Placement of a Left Ventricular Assist Device. *American Journal of Cardiology*, **2017**, 120, 1578-1583	3	4

36	Pacing polarity and left ventricular mechanical activation sequence in cardiac resynchronization therapy. *Journal of Interventional Cardiac Electrophysiology*, **2012**, 35, 101-7	2.4	4
35	A vital sign-based prediction algorithm for differentiating COVID-19 versus seasonal influenza in hospitalized patients. *Npj Digital Medicine*, **2021**, 4, 95	15.7	4
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