

Theodore P Abraham

List of Publications by Year in descending order

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119
papers

7,666
citations

71102

41
h-index

53230

85
g-index

124
all docs

124
docs citations

124
times ranked

7938
citing authors

#	ARTICLE	IF	CITATIONS
1	Tricuspid Annular Displacement Predicts Survival in Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2006, 174, 1034-1041.	5.6	955
2	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.	1.2	891
3	Mavacamten for treatment of symptomatic obstructive hypertrophic cardiomyopathy (EXPLORER-HCM): a randomised, double-blind, placebo-controlled, phase 3 trial. Lancet, The, 2020, 396, 759-769.	13.7	481
4	Cardiac Resynchronization Therapy. Journal of the American College of Cardiology, 2005, 46, 2153-2167.	2.8	437
5	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.	2.8	332
6	Role of Tissue Doppler and Strain Echocardiography in Current Clinical Practice. Circulation, 2007, 116, 2597-2609.	1.6	280
7	Impact of Arterial Load and Loading Sequence on Left Ventricular Tissue Velocities in Humans. Journal of the American College of Cardiology, 2007, 50, 1570-1577.	2.8	280
8	Cardiac Resynchronization Therapy. Journal of the American College of Cardiology, 2005, 46, 2168-2182.	2.8	193
9	Electrophysiological Consequences of Dyssynchronous Heart Failure and Its Restoration by Resynchronization Therapy. Circulation, 2009, 119, 1220-1230.	1.6	181
10	Inhibiting Mitochondrial Na ⁺ /Ca ²⁺ Exchange Prevents Sudden Death in a Guinea Pig Model of Heart Failure. Circulation Research, 2014, 115, 44-54.	4.5	152
11	Regional asynchrony during acute myocardial ischemia quantified by ultrasound strain rate imaging. Journal of the American College of Cardiology, 2001, 37, 1141-1148.	2.8	122
12	Clinical applications of strain rate imaging. Journal of the American Society of Echocardiography, 2003, 16, 1334-1342.	2.8	121
13	Magnetic Resonance Imaging Assessment of Ventricular Dyssynchrony. Journal of the American College of Cardiology, 2005, 46, 2223-2228.	2.8	113
14	Strain and strain rate echocardiography. Current Opinion in Cardiology, 2002, 17, 443-454.	1.8	112
15	Evidence of Impaired Left Ventricular Systolic Function by Doppler Myocardial Imaging in Patients With Systemic Amyloidosis and No Evidence of Cardiac Involvement by Standard Two-Dimensional and Doppler Echocardiography. American Journal of Cardiology, 2008, 101, 1039-1045.	1.6	108
16	Strain Rate Imaging for Assessment of Regional Myocardial Function. Circulation, 2002, 105, 1403-1406.	1.6	105
17	Strain rate and strain: A step-by-step approach to image and data acquisition. Journal of the American Society of Echocardiography, 2004, 17, 1011-1020.	2.8	101
18	Time to onset of regional relaxation: feasibility, variability and utility of a novel index of regional myocardial function by strain rate imaging. Journal of the American College of Cardiology, 2002, 39, 1531-1537.	2.8	100

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19	Echocardiography in Hypertrophic Cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 2008, 1, 787-800.	5.3	99
20	Usefulness of Two-Dimensional Speckle Strain for Evaluation of Left Ventricular Diastolic Deformation in Patients With Coronary Artery Disease. <i>American Journal of Cardiology</i> , 2006, 98, 1581-1586.	1.6	91
21	Left atrial myopathy in cardiac amyloidosis: implications of novel echocardiographic techniques. <i>European Heart Journal</i> , 2005, 26, 173-179.	2.2	90
22	Effect of the mitral valve on diastolic flow patterns. <i>Physics of Fluids</i> , 2014, 26, .	4.0	86
23	Relation of Tissue Displacement and Strain to Invasively Determined Right Ventricular Stroke Volume. <i>American Journal of Cardiology</i> , 2005, 96, 1173-1178.	1.6	79
24	Comparison of Usefulness of Echocardiographic Doppler Variables to Left Ventricular End-Diastolic Pressure in Predicting Future Heart Failure Events. <i>American Journal of Cardiology</i> , 2006, 97, 866-871.	1.6	78
25	Utilizing ECG-Based Heartbeat Classification for Hypertrophic Cardiomyopathy Identification. <i>IEEE Transactions on Nanobioscience</i> , 2015, 14, 505-512.	3.3	75
26	Unique Abnormalities in Right Ventricular Longitudinal Strain in Systemic Sclerosis Patients. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	2.6	67
27	Diastolic dysfunction in familial hypertrophic cardiomyopathy transgenic model mice. <i>Cardiovascular Research</i> , 2009, 82, 84-92.	3.8	62
28	Low Left Atrial Strain Is Associated With Adverse Outcomes in Hypertrophic Cardiomyopathy Patients. <i>Journal of the American Society of Echocardiography</i> , 2019, 32, 593-603.e1.	2.8	62
29	Doppler Myocardial Imaging for Early Detection of Right Ventricular Dysfunction in Patients With Pulmonary Hypertension. <i>Journal of the American Society of Echocardiography</i> , 2008, 21, 1035-1041.	2.8	59
30	Effect of Mavacamten on Echocardiographic Features in Symptomatic Patients With Obstructive Hypertrophic Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2021, 78, 2518-2532.	2.8	59
31	Hypertrophic Cardiomyopathy Patients With Paroxysmal Atrial Fibrillation Have a High Burden of Left Atrial Fibrosis by Cardiac Magnetic Resonance Imaging. <i>JACC: Clinical Electrophysiology</i> , 2019, 5, 364-375.	3.2	56
32	Relationship of Delayed Enhancement by Magnetic Resonance to Myocardial Perfusion by Positron Emission Tomography in Hypertrophic Cardiomyopathy. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 210-217.	2.6	54
33	Evaluation of Structural Progression in Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy. <i>JAMA Cardiology</i> , 2017, 2, 293.	6.1	53
34	Role of Global Longitudinal Strain in Predicting Outcomes in Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2017, 120, 670-675.	1.6	53
35	Right Ventricular Function in Asymptomatic Individuals with a Systemic Right Ventricle. <i>Journal of the American Society of Echocardiography</i> , 2006, 19, 1033-1037.	2.8	51
36	The Burden of Early Phenotypes and the Influence of Wall Thickness in Hypertrophic Cardiomyopathy Mutation Carriers. <i>JAMA Cardiology</i> , 2017, 2, 419.	6.1	50

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37	Clinical Outcomes in Patients With Nonobstructive, Labile, and Obstructive Hypertrophic Cardiomyopathy. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	47
38	Identifying Ventricular Arrhythmias and Their Predictors by Applying Machine Learning Methods to Electronic Health Records in Patients With Hypertrophic Cardiomyopathy (HCM-VAR-Risk Model). <i>American Journal of Cardiology</i> , 2019, 123, 1681-1689.	1.6	47
39	PET/CT Assessment of Symptomatic Individuals with Obstructive and Nonobstructive Hypertrophic Cardiomyopathy. <i>Journal of Nuclear Medicine</i> , 2012, 53, 407-414.	5.0	46
40	Recommendations for Multimodality Cardiovascular Imaging of Patients with Hypertrophic Cardiomyopathy: An Update from the American Society of Echocardiography, in Collaboration with the American Society of Nuclear Cardiology, the Society for Cardiovascular Magnetic Resonance, and the Society of Cardiovascular Computed Tomography. <i>Journal of the American Society of Echocardiography</i> , 2022, 35, 533-569.	2.8	46
41	Creatine Kinase Adenosine Triphosphate and Phosphocreatine Energy Supply in a Single Kindred of Patients With Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2013, 112, 861-866.	1.6	45
42	MPST but not CSE is the primary regulator of hydrogen sulfide production and function in the coronary artery. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H71-H79.	3.2	45
43	Myocardial contractility by strain echocardiography: comparison with physiological measurements in an in vitro model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H2599-H2604.	3.2	44
44	Comparison of Clinical Presentation, Left Ventricular Morphology, Hemodynamics, and Exercise Tolerance in Obese Versus Nonobese Patients With Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2013, 112, 1182-1189.	1.6	42
45	Contribution of Central Adiposity to Left Ventricular Diastolic Function (from the Baltimore) Tj ETQq1 1 0.784314 r _{BT} / Overlock 10 T _{EE} 41	1.6	41
46	Myocardial oxidative stress correlates with left ventricular dysfunction on strain echocardiography in a rodent model of sepsis. <i>Intensive Care Medicine Experimental</i> , 2017, 5, 21.	1.9	41
47	Strain echocardiography tracks dobutamine-induced decrease in regional myocardial perfusion in nonocclusive coronary stenosis. <i>Journal of the American College of Cardiology</i> , 2004, 44, 1664-1671.	2.8	38
48	Left ventricular wall thickness in patients with hypertrophic cardiomyopathy: a comparison between cardiac magnetic resonance imaging and echocardiography. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 945-954.	1.5	37
49	Prevalence and Pathophysiologic Attributes of Ventricular Dyssynchrony in Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2009, 54, 445-451.	2.8	34
50	American Society of Echocardiography Cardiovascular Technology and Research Summit: A Roadmap for 2020. <i>Journal of the American Society of Echocardiography</i> , 2013, 26, 325-338.	2.8	34
51	Allele-specific differences in transcriptome, miRNome, and mitochondrial function in two hypertrophic cardiomyopathy mouse models. <i>JCI Insight</i> , 2018, 3, .	5.0	33
52	Analysis of the Interaction Between Segmental Relaxation Patterns and Global Diastolic Function by Strain Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2005, 18, 901-906.	2.8	32
53	Imaging Cardiac Resynchronization Therapy. <i>JACC: Cardiovascular Imaging</i> , 2009, 2, 486-497.	5.3	31
54	Pacemaker-induced transient asynchrony suppresses heart failure progression. <i>Science Translational Medicine</i> , 2015, 7, 319ra207.	12.4	31

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55	Stress Myocardial Blood Flow Heterogeneity Is a Positron Emission Tomography Biomarker of Ventricular Arrhythmias in Patients With Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2018, 121, 1081-1089.	1.6	31
56	Distinguishing ventricular septal bulge versus hypertrophic cardiomyopathy in the elderly. <i>Heart</i> , 2016, 102, 1087-1094.	2.9	30
57	Comparison of Outcomes in Patients With Nonobstructive, Labile-Obstructive, and Chronically Obstructive Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2015, 116, 938-944.	1.6	29
58	Strain Echocardiography Parameters Correlate With Disease Severity in Children and Infants With Sepsis*. <i>Pediatric Critical Care Medicine</i> , 2016, 17, 383-390.	0.5	29
59	Hypertrophic cardiomyopathy associated Lys104Glu mutation in the myosin regulatory light chain causes diastolic disturbance in mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 74, 318-329.	1.9	24
60	Prevalence, Clinical Correlates, and Functional Impact of Subaortic Ventricular Septal Bulge (from) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.6	23
61	Comparison and Effectiveness of Regadenoson Versus Dipyridamole on Stress Electrocardiographic Changes During Positron Emission Tomography Evaluation of Patients With Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2012, 110, 1033-1039.	1.6	22
62	E/e ² ratio and outcome prediction in hypertrophic cardiomyopathy: the influence of outflow tract obstruction. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 101-107.	1.2	22
63	Exercise Heart Rates in Patients With Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2015, 115, 1144-1150.	1.6	21
64	Diffuse interstitial fibrosis assessed by cardiac magnetic resonance is associated with dispersion of ventricular repolarization in patients with hypertrophic cardiomyopathy. <i>Journal of Arrhythmia</i> , 2017, 33, 201-207.	1.2	21
65	The E-wave propagation index (EPI): A novel echocardiographic parameter for prediction of left ventricular thrombus. Derivation from computational fluid dynamic modeling and validation on human subjects. <i>International Journal of Cardiology</i> , 2017, 227, 662-667.	1.7	20
66	Speckle-Derived Strain. <i>Journal of the American College of Cardiology</i> , 2008, 51, 158-160.	2.8	18
67	Effect of Diffuse Subendocardial Hypoperfusion on Left Ventricular Cavity Size by ¹³ N-Ammonia Perfusion PET in Patients With Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2016, 118, 1908-1915.	1.6	18
68	Apparent left ventricular cavity dilatation during PET/CT in hypertrophic cardiomyopathy: Clinical predictors and potential mechanisms. <i>Journal of Nuclear Cardiology</i> , 2016, 23, 1304-1314.	2.1	18
69	Sex-specific cardiac phenotype and clinical outcomes in patients with hypertrophic cardiomyopathy. <i>American Heart Journal</i> , 2020, 219, 58-69.	2.7	18
70	Impact of peak provoked left ventricular outflow tract gradients on clinical outcomes in hypertrophic cardiomyopathy. <i>International Journal of Cardiology</i> , 2017, 243, 290-295.	1.7	17
71	Defining the Role of Point-of-Care Ultrasound in Cardiovascular Disease. <i>American Journal of Cardiology</i> , 2018, 122, 1443-1450.	1.6	17
72	Late gadolinium enhancement confined to the right ventricular insertion points in hypertrophic cardiomyopathy: an intermediate stage phenotype?. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 293-300.	1.2	16

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73	Influence of Atrial Function and Mechanical Synchrony on LV Hemodynamic Status in Heart Failure Patients on Resynchronization Therapy. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 691-698.	5.3	15
74	Comparison of Clinical Features in Blacks Versus Whites With Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2016, 117, 1815-1820.	1.6	15
75	Is echocardiographic assessment of dyssynchrony useful to select candidates for cardiac resynchronization therapy?. <i>Circulation: Cardiovascular Imaging</i> , 2008, 1, 79-85.	2.6	14
76	Computing Myocardial Motion in 4-Dimensional Echocardiography. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 1284-1297.	1.5	14
77	Criteria predicting response to CRT: is more better?. <i>European Heart Journal</i> , 2009, 30, 2835-2837.	2.2	12
78	Common miR-590 Variant rs6971711 Present Only in African Americans Reduces miR-590 Biogenesis. <i>PLoS ONE</i> , 2016, 11, e0156065.	2.5	12
79	Rest and Stress Longitudinal Systolic Left Ventricular Mechanics in Hypertrophic Cardiomyopathy: Implications for Prognostication. <i>Journal of the American Society of Echocardiography</i> , 2018, 31, 578-586.	2.8	12
80	Stress-induced regional features of left ventricle is related to pathogenesis of clinical conditions with both acute and chronic stress. <i>International Journal of Cardiology</i> , 2010, 145, 367-368.	1.7	11
81	Hypertrophy Signaling Pathways in Experimental Chronic Aortic Regurgitation. <i>Journal of Cardiovascular Translational Research</i> , 2013, 6, 852-860.	2.4	11
82	Sildenafil treatment attenuates ventricular remodeling in an experimental model of aortic regurgitation. <i>SpringerPlus</i> , 2015, 4, 592.	1.2	11
83	Safety profile and utility of treadmill exercise in patients with high-gradient hypertrophic cardiomyopathy. <i>American Heart Journal</i> , 2017, 184, 47-54.	2.7	10
84	Myocardial Dyssynchrony and Resynchronization. <i>Heart Failure Clinics</i> , 2006, 2, 179-192.	2.1	9
85	Electromechanical Relationship in Hypertrophic Cardiomyopathy. <i>Journal of Cardiovascular Translational Research</i> , 2013, 6, 604-615.	2.4	9
86	Could early septal involvement in the remodeling process be related to the advance hypertensive heart disease?. <i>IJC Heart and Vasculature</i> , 2015, 7, 141-145.	1.1	9
87	Comparison of two software systems for quantification of myocardial blood flow in patients with hypertrophic cardiomyopathy. <i>Journal of Nuclear Cardiology</i> , 2019, 26, 1243-1253.	2.1	8
88	Higher incidence of vasodilator-induced left ventricular cavity dilation by PET when compared to treadmill exercise-ECHO in hypertrophic cardiomyopathy. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 2031-2043.	2.1	8
89	Echocardiographic Characterization of a Murine Model of Hypertrophic Obstructive Cardiomyopathy Induced by Cardiac-specific Overexpression of Epidermal Growth Factor Receptor 2. <i>Comparative Medicine</i> , 2016, 66, 268-77.	1.0	8
90	Exercise hypertension should be recalled in basal septal hypertrophy as the early imaging biomarker in patients with stressed heart morphology. <i>Blood Pressure Monitoring</i> , 2020, 25, 118-119.	0.8	7

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91	Long-Term Implications of Abnormal Left Ventricular Strain During Sepsis. <i>Critical Care Medicine</i> , 2021, 49, e444-e453.	0.9	7
92	Machine Learning Methods for Identifying Atrial Fibrillation Cases and Their Predictors in Patients With Hypertrophic Cardiomyopathy: The HCM-AF-Risk Model. <i>CJC Open</i> , 2021, 3, 801-813.	1.5	7
93	Structural and Functional Correlates of Myocardial T1 Mapping in 321 Patients With Hypertrophic Cardiomyopathy. <i>Journal of Computer Assisted Tomography</i> , 2017, 41, 653-660.	0.9	6
94	The peripheral blood transcriptome in septic cardiomyopathy: an observational, pilot study. <i>Intensive Care Medicine Experimental</i> , 2019, 7, 57.	1.9	6
95	Measuring Ascending Aortic Stiffness & In Vivo in Mice Using Ultrasound. <i>Journal of Visualized Experiments</i> , 2014, . .	0.3	6
96	QRS Width and Mechanical Dyssynchrony for Selection of Patients for Cardiac Resynchronization Therapy. <i>JACC: Cardiovascular Imaging</i> , 2010, 3, 141-143.	5.3	5
97	Myocardial Aspects in Aortic Stenosis and Functional Increased Afterload Conditions in Patients with Stressed Heart Morphology. <i>Annals of Thoracic and Cardiovascular Surgery</i> , 2021, 27, 332-334.	0.8	5
98	New Approach to Intracardiac Hemodynamic Measurements in Small Animals. <i>Journal of Ultrasound in Medicine</i> , 2012, 31, 1233-1238.	1.7	4
99	Exercise-QTc is associated with diffuse interstitial fibrosis reflected by lower approximated T1 relaxation time in hypertrophic cardiomyopathy patients. <i>Journal of Electrocardiology</i> , 2017, 50, 484-490.	0.9	4
100	Identification of myocardial infarction using three-dimensional strain tensor fractional anisotropy. , 2010, 2010, 468-471.		3
101	Age-related changes in familial hypertrophic cardiomyopathy phenotype in transgenic mice and humans. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2014, 34, 634-639.	1.0	3
102	Mapping the cardiac acoustome: An overview of technologies, tools and methods. , 2015, . .		3
103	Hypertension should be ruled out in patients with hyperdynamic left ventricle on radionuclide myocardial perfusion imaging, diastolic dysfunction and dyspnea on exertion. <i>IJC Heart and Vasculature</i> , 2015, 7, 149-150.	1.1	3
104	Echo-Strain to Check Up on Checkpoint Inhibitors. <i>Journal of the American College of Cardiology</i> , 2020, 75, 479-481.	2.8	3
105	Effects of early and late-onset treatment with carvedilol in an experimental model of aortic regurgitation. <i>SpringerPlus</i> , 2015, 4, 52.	1.2	2
106	Hemodynamic stress and microscopic remodeling. <i>International Journal of Cardiology Cardiovascular Risk and Prevention</i> , 2021, 11, 200115.	1.1	2
107	The Role of Echocardiography in Hemodynamic Assessment in Heart Failure. <i>Ultrasound Clinics</i> , 2009, 4, 149-166.	0.2	1
108	Response to Letters Regarding Article, "Electrocardiographic Features of Arrhythmogenic Right Ventricular Dysplasia". <i>Circulation</i> , 2010, 121, .	1.6	1

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109	CT characterization of myocardial substrate in hypertrophic cardiomyopathy. Journal of Cardiovascular Computed Tomography, 2014, 8, 166-169.	1.3	1
110	Nonobstructive Hypertrophic Cardiomyopathy. Journal of the American College of Cardiology, 2016, 68, 982-983.	2.8	1
111	T1 mapping with cardiovascular magnetic resonance: an emerging clinical biomarker. Heart, 2017, 103, 326.1-326.	2.9	1
112	OUP accepted manuscript. European Heart Journal Cardiovascular Imaging, 2022, , .	1.2	1
113	Two Classic Hemodynamic Findings for Hypertrophic Cardiomyopathy. Circulation, 2014, 129, e519-20.	1.6	0
114	Current obstacles in management of hypertensive patients by performance-based care and importance of diagnostic tests.. IJC Heart and Vasculature, 2015, 9, 73-74.	1.1	0
115	A Good Heart Is Hard to Find. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	0
116	Evanescient Microbubbles After Cardiac Mechanical Support. JACC: Case Reports, 2020, 2, 503-504.	0.6	0
117	Ionizing radiation exposure alters coronary and cardiac function. FASEB Journal, 2013, 27, lb672.	0.5	0
118	Abstract 17186: Left Atrial Strain Predicts Adverse Outcomes in Hypertrophic Cardiomyopathy. Circulation, 2018, 138, .	1.6	0
119	Ultimate phases of hypertensive heart disease and stressed heart morphology by conventional and novel cardiac imaging. American Journal of Cardiovascular Disease, 2021, 11, 628-634.	0.5	0