Theodore P Abraham

List of Publications by Year
in descending order

119 papers	7,666 citations	70961 41 h-index	53109 85 g-index
124 all docs	124 docs citations	124 times ranked	7938 citing authors

#	Article	IF	Citations
1	OUP accepted manuscript. European Heart Journal Cardiovascular Imaging, 2022, , .	0.5	1
2	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. Journal of the American Society of Echocardiography, 2022, 35, 533-569.	1.2	46
3	Myocardial Aspects in Aortic Stenosis and Functional Increased Afterload Conditions in Patients with Stressed Heart Morphology. Annals of Thoracic and Cardiovascular Surgery, 2021, 27, 332-334.	0.3	5
4	Long-Term Implications of Abnormal Left Ventricular Strain During Sepsis. Critical Care Medicine, 2021, 49, e444-e453.	0.4	7
5	Machine Learning Methods for Identifying Atrial Fibrillation Cases and Their Predictors in Patients With Hypertrophic Cardiomyopathy: The HCM-AF-Risk Model. CJC Open, 2021, 3, 801-813.	0.7	7
6	Hemodynamic stress and microscopic remodeling. International Journal of Cardiology Cardiovascular Risk and Prevention, 2021, 11, 200115.	0.4	2
7	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
8	Effect of Mavacamten on Echocardiographic Features in Symptomatic Patients With Obstructive Hypertrophic Cardiomyopathy. Journal of the American College of Cardiology, 2021, 78, 2518-2532.	1.2	59
9	Higher incidence of vasodilator-induced left ventricular cavity dilation by PET when compared to treadmill exercise-ECHO in hypertrophic cardiomyopathy. Journal of Nuclear Cardiology, 2020, 27, 2031-2043.	1.4	8
10	Sex-specific cardiac phenotype and clinical outcomes in patients with hypertrophic cardiomyopathy. American Heart Journal, 2020, 219, 58-69.	1.2	18
11	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.	6.3	481
12	Evanescent Microbubbles After CardiacÂMechanical Support. JACC: Case Reports, 2020, 2, 503-504.	0.3	0
13	Exercise hypertension should be recalled in basal septal hypertrophy as the early imaging biomarker in patients with stressed heart morphology. Blood Pressure Monitoring, 2020, 25, 118-119.	0.4	7
14	Echo-Strain to Check Up on CheckpointÂInhibitors. Journal of the American College of Cardiology, 2020, 75, 479-481.	1.2	3
15	Identifying Ventricular Arrhythmias and Their Predictors by Applying Machine Learning Methods to Electronic Health Records in Patients With Hypertrophic Cardiomyopathy (HCM-VAr-Risk Model). American Journal of Cardiology, 2019, 123, 1681-1689.	0.7	47
16	Low Left Atrial Strain Is Associated With Adverse Outcomes in Hypertrophic Cardiomyopathy Patients. Journal of the American Society of Echocardiography, 2019, 32, 593-603.e1.	1.2	62
17	Hypertrophic Cardiomyopathy Patients With Paroxysmal Atrial Fibrillation Have a High Burden of Left Atrial Fibrosis by Cardiac Magnetic Resonance Imaging. JACC: Clinical Electrophysiology, 2019, 5, 364-375.	1.3	56
18	Comparison of two software systems for quantification of myocardial blood flow in patients with hypertrophic cardiomyopathy. Journal of Nuclear Cardiology, 2019, 26, 1243-1253.	1.4	8

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19	The peripheral blood transcriptome in septic cardiomyopathy: an observational, pilot study. Intensive Care Medicine Experimental, 2019, 7, 57.	0.9	6
20	Clinical Outcomes in Patients With Nonobstructive, Labile, and Obstructive Hypertrophic Cardiomyopathy. Journal of the American Heart Association, 2018, 7, .	1.6	47
21	Stress Myocardial Blood Flow Heterogeneity Is a Positron Emission Tomography Biomarker of Ventricular Arrhythmias in Patients With Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2018, 121, 1081-1089.	0.7	31
22	Rest and Stress Longitudinal Systolic Left Ventricular Mechanics in Hypertrophic Cardiomyopathy: Implications for Prognostication. Journal of the American Society of Echocardiography, 2018, 31, 578-586.	1.2	12
23	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
24	E/eâ€² ratio and outcome prediction in hypertrophic cardiomyopathy: the influence of outflow tract obstruction. European Heart Journal Cardiovascular Imaging, 2018, 19, 101-107.	0.5	22
25	Defining the Role of Point-of-Care Ultrasound in Cardiovascular Disease. American Journal of Cardiology, 2018, 122, 1443-1450.	0.7	17
26	Allele-specific differences in transcriptome, miRNome, and mitochondrial function in two hypertrophic cardiomyopathy mouse models. JCI Insight, 2018, 3, .	2.3	33
27	Abstract 17186: Left Atrial Strain Predicts Adverse Outcomes in Hypertrophic Cardiomyopathy. Circulation, 2018, 138, .	1.6	0
28	Evaluation of Structural Progression in Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy. JAMA Cardiology, 2017, 2, 293.	3.0	53
29	Diffuse interstitial fibrosis assessed by cardiac magnetic resonance is associated with dispersion of ventricular repolarization in patients with hypertrophic cardiomyopathy. Journal of Arrhythmia, 2017, 33, 201-207.	0.5	21
30	T1 mapping with cardiovascular magnetic resonance: an emerging clinical biomarker. Heart, 2017, 103, 326.1-326.	1.2	1
31	Exercise-QTc is associated with diffuse interstitial fibrosis reflected by lower approximated T1 relaxation time in hypertrophic cardiomyopathy patients. Journal of Electrocardiology, 2017, 50, 484-490.	0.4	4
32	The Burden of Early Phenotypes and the Influence of Wall Thickness in Hypertrophic Cardiomyopathy Mutation Carriers. JAMA Cardiology, 2017, 2, 419.	3.0	50
33	Myocardial oxidative stress correlates with left ventricular dysfunction on strain echocardiography in a rodent model of sepsis. Intensive Care Medicine Experimental, 2017, 5, 21.	0.9	41
34	A Good Heart Is Hard to Find. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	0
35	Safety profile and utility of treadmill exercise in patients with high-gradient hypertrophic cardiomyopathy. American Heart Journal, 2017, 184, 47-54.	1.2	10
36	Impact of peak provoked left ventricular outflow tract gradients on clinical outcomes in hypertrophic cardiomyopathy. International Journal of Cardiology, 2017, 243, 290-295.	0.8	17

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37	Structural and Functional Correlates of Myocardial T1 Mapping in 321 Patients With Hypertrophic Cardiomyopathy. Journal of Computer Assisted Tomography, 2017, 41, 653-660.	0.5	6
38	Role of Global Longitudinal Strain in Predicting Outcomes in Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2017, 120, 670-675.	0.7	53
39	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. International Journal of Cardiology, 2017, 227, 662-667.	0.8	20
40	Common miR-590 Variant rs6971711 Present Only in African Americans Reduces miR-590 Biogenesis. PLoS ONE, 2016, 11, e0156065.	1.1	12
41	Strain Echocardiography Parameters Correlate With Disease Severity in Children and Infants With Sepsis*. Pediatric Critical Care Medicine, 2016, 17, 383-390.	0.2	29
42	Comparison of Clinical Features in Blacks Versus Whites With Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2016, 117, 1815-1820.	0.7	15
43	Effect of Diffuse Subendocardial Hypoperfusion on Left Ventricular Cavity Size by 13N-Ammonia Perfusion PET in Patients With Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2016, 118, 1908-1915.	0.7	18
44	Distinguishing ventricular septal bulge versus hypertrophic cardiomyopathy in the elderly. Heart, 2016, 102, 1087-1094.	1.2	30
45	Nonobstructive Hypertrophic Cardiomyopathy. Journal of the American College of Cardiology, 2016, 68, 982-983.	1.2	1
46	Unique Abnormalities in Right Ventricular Longitudinal Strain in Systemic Sclerosis Patients. Circulation: Cardiovascular Imaging, 2016, 9, .	1.3	67
47	Apparent left ventricular cavity dilatation during PET/CT in hypertrophic cardiomyopathy: Clinical predictors and potential mechanisms. Journal of Nuclear Cardiology, 2016, 23, 1304-1314.	1.4	18
48	MPST but not CSE is the primary regulator of hydrogen sulfide production and function in the coronary artery. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H71-H79.	1.5	45
49	Late gadolinium enhancement confined to the right ventricular insertion points in hypertrophic cardiomyopathy: an intermediate stage phenotype?. European Heart Journal Cardiovascular Imaging, 2016, 17, 293-300.	0.5	16
50	Left ventricular wall thickness in patients with hypertrophic cardiomyopathy: a comparison between cardiac magnetic resonance imaging and echocardiography. International Journal of Cardiovascular Imaging, 2016, 32, 945-954.	0.7	37
51	Echocardiographic Characterization of a Murine Model of Hypertrophic Obstructive Cardiomyopathy Induced by Cardiac-specific Overexpression of Epidermal Growth Factor Receptor 2. Comparative Medicine, 2016, 66, 268-77.	0.4	8
52	Could early septal involvement in the remodeling process be related to the advance hypertensive heart disease?. IJC Heart and Vasculature, 2015, 7, 141-145.	0.6	9
53	Current obstacles in management of hypertensive patients by performance-based care and importance of diagnostic tests.. IJC Heart and Vasculature, 2015, 9, 73-74.	0.6	0
54	Sildenafil treatment attenuates ventricular remodeling in an experimental model of aortic regurgitation. SpringerPlus, 2015, 4, 592.	1.2	11

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55	Utilizing ECG-Based Heartbeat Classification for Hypertrophic Cardiomyopathy Identification. IEEE Transactions on Nanobioscience, 2015, 14, 505-512.	2.2	75
56	Mapping the cardiac acousteome: An overview of technologies, tools and methods. , 2015, , .		3
57	Pacemaker-induced transient asynchrony suppresses heart failure progression. Science Translational Medicine, 2015, 7, 319ra207.	5.8	31
58	Hypertension should be ruled out in patients with hyperdynamic left ventricle on radionuclide myocardial perfusion imaging, diastolic dysfunction and dyspnea on exertion. IJC Heart and Vasculature, 2015, 7, 149-150.	0.6	3
59	Comparison of Outcomes in Patients With Nonobstructive, Labile-Obstructive, and Chronically Obstructive Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2015, 116, 938-944.	0.7	29
60	Effects of early and late-onset treatment with carvedilol in an experimental model of aortic regurgitation. SpringerPlus, 2015, 4, 52.	1.2	2
61	Exercise Heart Rates in Patients With Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2015, 115, 1144-1150.	0.7	21
62	Inhibiting Mitochondrial Na ⁺ /Ca ²⁺ Exchange Prevents Sudden Death in a Guinea Pig Model of Heart Failure. Circulation Research, 2014, 115, 44-54.	2.0	152
63	Effect of the mitral valve on diastolic flow patterns. Physics of Fluids, 2014, 26, .	1.6	86
64	Age-related changes in familial hypertrophic cardiomyopathy phenotype in transgenic mice and humans. Journal of Huazhong University of Science and Technology [Medical Sciences], 2014, 34, 634-639.	1.0	3
65	Hypertrophic cardiomyopathy associated Lys104Glu mutation in the myosin regulatory light chain causes diastolic disturbance in mice. Journal of Molecular and Cellular Cardiology, 2014, 74, 318-329.	0.9	24
66	CT characterization of myocardial substrate in hypertrophic cardiomyopathy. Journal of Cardiovascular Computed Tomography, 2014, 8, 166-169.	0.7	1
67	Prevalence, Clinical Correlates, and Functional Impact of Subaortic Ventricular Septal Bulge (from) Tj ETQq1 1 0.784314 rgBT /Overlock	0.7	23
68	Two Classic Hemodynamic Findings for Hypertrophic Cardiomyopathy. Circulation, 2014, 129, e519-20.	1.6	0
69	Measuring Ascending Aortic Stiffness In Vivo in Mice Using Ultrasound. Journal of Visualized Experiments, 2014, , .	0.2	6
70	Hypertrophy Signaling Pathways in Experimental Chronic Aortic Regurgitation. Journal of Cardiovascular Translational Research, 2013, 6, 852-860.	1.1	11
71	Electromechanical Relationship in Hypertrophic Cardiomyopathy. Journal of Cardiovascular Translational Research, 2013, 6, 604-615.	1.1	9
72	American Society of Echocardiography Cardiovascular Technology and Research Summit: A Roadmap for 2020. Journal of the American Society of Echocardiography, 2013, 26, 325-338.	1.2	34

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73	Comparison of Clinical Presentation, Left Ventricular Morphology, Hemodynamics, and Exercise Tolerance in Obese Versus Nonobese Patients With Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2013, 112, 1182-1189.	0.7	42
74	Creatine Kinase Adenosine Triphosphate and Phosphocreatine Energy Supply in a Single Kindred of Patients With Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2013, 112, 861-866.	0.7	45
75	Relationship of Delayed Enhancement by Magnetic Resonance to Myocardial Perfusion by Positron Emission Tomography in Hypertrophic Cardiomyopathy. Circulation: Cardiovascular Imaging, 2013, 6, 210-217.	1.3	54
76	Ionizing radiation exposure alters coronary and cardiac function. FASEB Journal, 2013, 27, lb672.	0.2	0
77	PET/CT Assessment of Symptomatic Individuals with Obstructive and Nonobstructive Hypertrophic Cardiomyopathy. Journal of Nuclear Medicine, 2012, 53, 407-414.	2.8	46
78	Computing Myocardial Motion in 4-Dimensional Echocardiography. Ultrasound in Medicine and Biology, 2012, 38, 1284-1297.	0.7	14
79	Comparison and Effectiveness of Regadenoson Versus Dipyridamole on Stress Electrocardiographic Changes During Positron Emission Tomography Evaluation of Patients With Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2012, 110, 1033-1039.	0.7	22
80	New Approach to Intracardiac Hemodynamic Measurements in Small Animals. Journal of Ultrasound in Medicine, 2012, 31, 1233-1238.	0.8	4
81	Contribution of Central Adiposity to Left Ventricular Diastolic Function (from the Baltimore) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.7	41
82	Influence of Atrial Function and Mechanical Synchrony on LV Hemodynamic Status in Heart Failure Patients on Resynchronization Therapy. JACC: Cardiovascular Imaging, 2011, 4, 691-698.	2.3	15
83	Response to Letters Regarding Article, â€œElectrocardiographic Features of Arrhythmogenic Right Ventricular Dysplasiaâ€. Circulation, 2010, 121, .	1.6	1
84	QRS Width and Mechanical Dyssynchrony for Selection of Patients for Cardiac Resynchronization Therapy. JACC: Cardiovascular Imaging, 2010, 3, 141-143.	2.3	5
85	Stress-induced regional features of left ventricle is related to pathogenesis of clinical conditions with both acute and chronic stress. International Journal of Cardiology, 2010, 145, 367-368.	0.8	11
86	Identification of myocardial infarction using three-dimensional strain tensor fractional anisotropy. , 2010, 2010, 468-471.		3
87	Electrophysiological Consequences of Dyssynchronous Heart Failure and Its Restoration by Resynchronization Therapy. Circulation, 2009, 119, 1220-1230.	1.6	181
88	Diastolic dysfunction in familial hypertrophic cardiomyopathy transgenic model mice. Cardiovascular Research, 2009, 82, 84-92.	1.8	62
89	Criteria predicting response to CRT: is more better?. European Heart Journal, 2009, 30, 2835-2837.	1.0	12
90	Prevalence and Pathophysiologic Attributes of Ventricular Dyssynchrony in Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy. Journal of the American College of Cardiology, 2009, 54, 445-451.	1.2	34

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91	Imaging Cardiac Resynchronization Therapy. JACC: Cardiovascular Imaging, 2009, 2, 486-497.	2.3	31
92	The Role of Echocardiography in Hemodynamic Assessment in Heart Failure. Ultrasound Clinics, 2009, 4, 149-166.	0.2	1
93	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.	0.7	108
94	Speckle-Derived Strain. Journal of the American College of Cardiology, 2008, 51, 158-160.	1.2	18
95	Echocardiography in Hypertrophic Cardiomyopathy. JACC: Cardiovascular Imaging, 2008, 1, 787-800.	2.3	99
96	Doppler Myocardial Imaging for Early Detection of Right Ventricular Dysfunction in Patients With Pulmonary Hypertension. Journal of the American Society of Echocardiography, 2008, 21, 1035-1041.	1.2	59
97	Is echocardiographic assessment of dyssynchrony useful to select candidates for cardiac resynchronization therapy?. Circulation: Cardiovascular Imaging, 2008, 1, 79-85.	1.3	14
98	Role of Tissue Doppler and Strain Echocardiography in Current Clinical Practice. Circulation, 2007, 116, 2597-2609.	1.6	280
99	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.	1.2	280
100	Usefulness of Two-Dimensional Speckle Strain for Evaluation of Left Ventricular Diastolic Deformation in Patients With Coronary Artery Disease. American Journal of Cardiology, 2006, 98, 1581-1586.	0.7	91
101	Tricuspid Annular Displacement Predicts Survival in Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2006, 174, 1034-1041.	2.5	955
102	Right Ventricular Function in Asymptomatic Individuals with a Systemic Right Ventricle. Journal of the American Society of Echocardiography, 2006, 19, 1033-1037.	1.2	51
103	Myocardial Dyssynchrony and Resynchronization. Heart Failure Clinics, 2006, 2, 179-192.	1.0	9
104	Comparison of Usefulness of Echocardiographic Doppler Variables to Left Ventricular End-Diastolic Pressure in Predicting Future Heart Failure Events. American Journal of Cardiology, 2006, 97, 866-871.	0.7	78
105	Relation of Tissue Displacement and Strain to Invasively Determined Right Ventricular Stroke Volume. American Journal of Cardiology, 2005, 96, 1173-1178.	0.7	79
106	Left atrial myopathy in cardiac amyloidosis: implications of novel echocardiographic techniques. European Heart Journal, 2005, 26, 173-179.	1.0	90
107	Analysis of the Interaction Between Segmental Relaxation Patterns and Global Diastolic Function by Strain Echocardiography. Journal of the American Society of Echocardiography, 2005, 18, 901-906.	1.2	32
108	Magnetic Resonance Imaging Assessment of Ventricular Dyssynchrony. Journal of the American College of Cardiology, 2005, 46, 2223-2228.	1.2	113

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109	Cardiac Resynchronization Therapy. Journal of the American College of Cardiology, 2005, 46, 2153-2167.	1.2	437
110	Cardiac Resynchronization Therapy. Journal of the American College of Cardiology, 2005, 46, 2168-2182.	1.2	193
111	Two-Dimensional Strainâ€"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
112	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.	1.2	101
113	Strain echocardiography tracks dobutamine-induced decrease in regional myocardial perfusion in nonocclusive coronary stenosis. Journal of the American College of Cardiology, 2004, 44, 1664-1671.	1.2	38
114	Clinical applications of strain rate imaging. Journal of the American Society of Echocardiography, 2003, 16, 1334-1342.	1.2	121
115	Myocardial contractility by strain echocardiography: comparison with physiological measurements in an in vitro model. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H2599-H2604.	1.5	44
116	Strain Rate Imaging for Assessment of Regional Myocardial Function. Circulation, 2002, 105, 1403-1406.	1.6	105
117	Strain and strain rate echocardiography. Current Opinion in Cardiology, 2002, 17, 443-454.	0.8	112
118	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.	1.2	100
119	Regional asynchrony during acute myocardial ischemia quantified by ultrasound strain rate imaging. Journal of the American College of Cardiology, 2001, 37, 1141-1148.	1.2	122