Garvan C Kane

List of Publications by Year
in descending order

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102 papers	8,171 citations	81900 39 h-index	46799 89 g-index
103 all docs	103 docs citations	103 times ranked	8470 citing authors

#	Article	IF	Citations
1	2014 ACC/AHA Guideline on Perioperative Cardiovascular Evaluation and Management of PatientsÂUndergoing Noncardiac Surgery. Journal of the American College of Cardiology, 2014, 64, e77-e137.	2.8	1,135
2	Progression of Left Ventricular Diastolic Dysfunction and Risk of Heart Failure. JAMA - Journal of the American Medical Association, 2011, 306, 856-63.	7.4	560
3	Role of Diastolic Stress Testing in the Evaluation for Heart Failure With Preserved Ejection Fraction. Circulation, 2017, 135, 825-838.	1.6	416
4	Age-Associated Increases in Pulmonary Artery Systolic Pressure in the General Population. Circulation, 2009, 119, 2663-2670.	1.6	384
5	Outcome Prediction by Quantitative Right Ventricular Function Assessment in 575 Subjects Evaluated for Pulmonary Hypertension. Circulation: Cardiovascular Imaging, 2013, 6, 711-721.	2.6	349
6	The clinical use of stress echocardiography in non-ischaemic heart disease: recommendations from the European Association of Cardiovascular Imaging and the American Society of Echocardiography. European Heart Journal Cardiovascular Imaging, 2016, 17, 1191-1229.	1.2	300
7	Right Ventricular Strain for Prediction of Survival in Patients With Pulmonary Arterial Hypertension. Chest, 2011, 139, 1299-1309.	0.8	298
8	Kir6.2 is required for adaptation to stress. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13278-13283.	7.1	279
9	Abnormal right ventricular-pulmonary artery coupling with exercise in heart failure with preserved ejection fraction. European Heart Journal, 2016, 37, 3293-3302.	2.2	259
10	Left Ventricular Function and Exercise Capacity. JAMA - Journal of the American Medical Association, 2009, 301, 286.	7.4	208
11	The Clinical Use of Stress Echocardiography in Non-Ischaemic Heart Disease: Recommendations from the European Association of Cardiovascular Imaging and the American Society of Echocardiography. Journal of the American Society of Echocardiography, 2017, 30, 101-138.	2.8	207
12	Arterial Stiffening With Exercise in PatientsÂWith Heart Failure and PreservedÂEjection Fraction. Journal of the American College of Cardiology, 2017, 70, 136-148.	2.8	195
13	Haemodynamics, dyspnoea, and pulmonary reserve in heart failure with preserved ejection fraction. European Heart Journal, 2018, 39, 2810-2821.	2.2	180
14	Cardiac K channels in health and disease. Journal of Molecular and Cellular Cardiology, 2005, 38, 937-943.	1.9	179
15	Differential Hemodynamic Effects of Exercise and Volume Expansion in People With and Without Heart Failure. Circulation: Heart Failure, 2015, 8, 41-48.	3.9	167
16	Role of Serial Quantitative Assessment of Right Ventricular Function by Strain in Pulmonary Arterial Hypertension. American Journal of Cardiology, 2013, 111, 143-148.	1.6	137
17	Outcome prediction in sepsis: Speckle tracking echocardiography based assessment of myocardial function. Critical Care, 2014, 18, R149.	5.8	135
18	Integration of Clinical and Hemodynamic Parameters in the Prediction of Long-term Survival in Patients With Pulmonary Arterial Hypertension. Chest, 2011, 139, 1285-1293.	0.8	124

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19	Renal artery revascularization improves heart failure control in patients with atherosclerotic renal artery stenosis. Nephrology Dialysis Transplantation, 2010, 25, 813-820.	0.7	117
20	Impaired Left Ventricular Mechanics in Pulmonary Arterial Hypertension. Circulation: Heart Failure, 2013, 6, 748-755.	3.9	106
21	Benzocaine-Induced Methemoglobinemia Based on the Mayo Clinic Experience From 28Â478 Transesophageal Echocardiograms. Archives of Internal Medicine, 2007, 167, 1977.	3.8	103
22	Protection conferred by myocardial ATP-sensitive K+channels in pressure overload-induced congestive heart failure revealed inKCNJ11Kir6.2-null mutant. Journal of Physiology, 2006, 577, 1053-1065.	2.9	102
23	KCNJ11 gene knockout of the Kir6.2 K ATP channel causes maladaptive remodeling and heart failure in hypertension. Human Molecular Genetics, 2006, 15, 2285-2297.	2.9	98
24	ATP-Sensitive K+ Channel Knockout Compromises the Metabolic Benefit of Exercise Training, Resulting in Cardiac Deficits. Diabetes, 2004, 53, S169-S175.	0.6	89
25	Pulmonary Hypertension: Diagnosis and Management. Mayo Clinic Proceedings, 2009, 84, 191-207.	3.0	89
26	Cellular remodeling in heart failure disrupts KATP channel-dependent stress tolerance. EMBO Journal, 2003, 22, 1732-1742.	7.8	85
27	Enhanced Pulmonary Vasodilator Reserve and Abnormal Right Ventricular. Circulation: Heart Failure, 2015, 8, 542-550.	3.9	83
28	Pericardial Effusions in Pulmonary Arterial Hypertension. Chest, 2013, 144, 1530-1538.	0.8	81
29	Reference Values for Right Ventricular Strain in Patients without Cardiopulmonary Disease: A Prospective Evaluation and Metaâ€Analysis. Echocardiography, 2015, 32, 787-796.	0.9	79
30	Gene knockout of the KCNJ8â€encoded Kir6.1 K ATP channel imparts fatal susceptibility to endotoxemia. FASEB Journal, 2006, 20, 2271-2280.	0.5	71
31	Impact of General and Central Adiposity onÂVentricular-Arterial Aging inÂWomen and Men. JACC: Heart Failure, 2014, 2, 489-499.	4.1	70
32	Genetic Disruption of Kir6.2, the Pore-Forming Subunit of ATP-Sensitive K+ Channel, Predisposes to Catecholamine-Induced Ventricular Dysrhythmia. Diabetes, 2004, 53, S165-S168.	0.6	68
33	Prognostic Value of Right Ventricular Strain Using Speckle-Tracking Echocardiography in Pulmonary Hypertension: AÂSystematic Review and Meta-analysis. Canadian Journal of Cardiology, 2018, 34, 1069-1078.	1.7	54
34	Safety of Stress Echocardiography Supervised by Registered Nurses: Results of a 2-Year Audit of 15,404 Patients. Journal of the American Society of Echocardiography, 2008, 21, 337-341.	2.8	53
35	Effusive-Constrictive Pericarditis After Pericardiocentesis. JACC: Cardiovascular Imaging, 2018, 11, 534-541.	5.3	53
36	The neurohormonal basis of pulmonary hypertension in heart failure with preserved ejection fraction. European Heart Journal, 2019, 40, 3707-3717.	2.2	47

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37	The 2016 Diastolic Function Guideline. JACC: Cardiovascular Imaging, 2020, 13, 327-335.	5.3	44
38	Comparison between gadolinium and iodine contrast for percutaneous intervention in atherosclerotic renal artery stenosis: clinical outcomes. Nephrology Dialysis Transplantation, 2007, 23, 1233-1240.	0.7	43
39	Aetiology and outcomes of severe right ventricular dysfunction. European Heart Journal, 2020, 41, 1273-1282.	2.2	42
40	Unraveling the RV Ejection DopplerÂEnvelope. JACC: Cardiovascular Imaging, 2017, 10, 1268-1277.	5.3	40
41	Pulmonary hypertension: diagnosis and management. Mayo Clinic Proceedings, 2009, 84, 191-207.	3.0	38
42	Induced pluripotent stem cell intervention rescues ventricular wall motion disparity, achieving biological cardiac resynchronization postâ€infarction. Journal of Physiology, 2013, 591, 4335-4349.	2.9	37
43	Proteomic profiling of K_{ATP} channelâ€deficient hypertensive heart maps risk for maladaptive cardiomyopathic outcome. Proteomics, 2009, 9, 1314-1325.	2.2	36
44	Artificial Intelligence (AI)-Empowered Echocardiography Interpretation: A State-of-the-Art Review. Journal of Clinical Medicine, 2021, 10, 1391.	2.4	36
45	Size, Shape, and Stamina. Hypertension, 2010, 55, 1143-1149.	2.7	35
46	Prognostic Impact of Pulmonary Artery Systolic Pressure in Patients Undergoing Transcatheter Aortic Valve Replacement for Aortic Stenosis. American Journal of Cardiology, 2014, 114, 1562-1567.	1.6	34
47	The prognostic significance of tricuspid valve regurgitation in pulmonary arterial hypertension. Clinical Respiratory Journal, 2018, 12, 1572-1580.	1.6	34
48	ATP-Sensitive K⁺ Channel Knockout Induces Cardiac Proteome Remodeling Predictive of Heart Disease Susceptibility. Journal of Proteome Research, 2009, 8, 4823-4834.	3.7	33
49	Noninvasive evaluation of pulmonary artery pressure during exercise: the importance of right atrial hypertension. European Respiratory Journal, 2020, 55, 1901617.	6.7	33
50	Impact of Right Ventricular Dysfunction on Short-term and Long-term Mortality in Sepsis. Chest, 2021, 159, 2254-2263.	0.8	33
51	Stress Echo 2030: The Novel ABCDE-(FGLPR) Protocol to Define the Future of Imaging. Journal of Clinical Medicine, 2021, 10, 3641.	2.4	33
52	Involvement of the heart by small and medium vessel vasculitis. Current Opinion in Rheumatology, 2009, 21, 29-34.	4.3	31
53	Pulmonary Hypertension in Hereditary Hemorrhagic Telangiectasia. Chest, 2016, 149, 362-371.	0.8	31
54	Impact of age on pulmonary artery systolic pressures at rest and with exercise. Journal of Animal Science and Technology, 2016, 3, 53-61.	2.5	31

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55	Association Between Echocardiography Laboratory Accreditation and the Quality of Imaging and Reporting for Valvular Heart Disease. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	29
56	Balloon Pulmonary Angioplasty for Chronic Thromboembolic Pulmonary Hypertension: Initial Single-Center Experience. Mayo Clinic Proceedings Innovations, Quality & Outcomes, 2019, 3, 311-318.	2.4	29
57	Left Atrial Strain in Evaluation of Heart Failure with Preserved Ejection Fraction. Journal of the American Society of Echocardiography, 2020, 33, 1490-1499.	2.8	28
58	Revisiting the role of nephrectomy for advanced renovascular disease. American Journal of Medicine, 2003, 114, 729-735.	1.5	25
59	Diastolic Stress Echocardiography: The Time Has Come for Its Integration into Clinical Practice. Journal of the American Society of Echocardiography, 2014, 27, 1060-1063.	2.8	25
60	Effect of positive end-expiratory pressure on porcine right ventricle function assessed by speckle tracking echocardiography. BMC Anesthesiology, 2015, 15, 49.	1.8	23
61	Usefulness of High-Density Lipoprotein Cholesterol to Predict Survival in Pulmonary Arterial Hypertension. American Journal of Cardiology, 2016, 118, 292-297.	1.6	22
62	Characteristics and Consequences of Work-Related Musculoskeletal Pain among Cardiac Sonographers Compared with Peer Employees: A Multisite Cross-Sectional Study. Journal of the American Society of Echocardiography, 2019, 32, 1138-1146.	2.8	22
63	Prognostic value of peak stress cardiac power in patients with normal ejection fraction undergoing exercise stress echocardiography. European Heart Journal, 2021, 42, 776-785.	2.2	22
64	Outcomes After Noncardiac Surgery for Patients with Pulmonary Hypertension: A Historical Cohort Study. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 1506-1513.	1.3	20
65	Hypertensive response with exercise does not increase the prevalence of abnormal Tc-99m SPECT Stress Perfusion Images. American Heart Journal, 2008, 155, 930-937.	2.7	18
66	Regenerative Therapy Prevents Heart Failure Progression in Dyssynchronous Nonischemic Narrow QRS Cardiomyopathy. Journal of the American Heart Association, 2015, 4, .	3.7	18
67	Safety and Outcome of Percutaneous Drainage of Pericardial Effusions in Patients with Cancer. American Journal of Cardiology, 2018, 122, 1091-1094.	1.6	18
68	Overview of Optimal Techniques for Pericardiocentesis in Contemporary Practice. Current Cardiology Reports, 2020, 22, 60.	2.9	16
69	Preoperative Dobutamine Stress Echocardiography and Clinical Factors for Assessment of Cardiac Risk after Noncardiac Surgery. Journal of the American Society of Echocardiography, 2020, 33, 423-432.	2.8	14
70	Noninvasive echocardiographic cardiac power output predicts mortality in cardiac intensive care unit patients. American Heart Journal, 2022, 245, 149-159.	2.7	14
71	Changes in Right Ventricle Function After Mitral Valve Repair Surgery. Heart Lung and Circulation, 2020, 29, 785-792.	0.4	13
72	An Exaggerated Blood Pressure Response to Treadmill Exercise does not Increase the Likelihood that Exercise Echocardiograms are Abnormal in Men or Women. Journal of the American Society of Echocardiography, 2012, 25, 1113-1119.	2.8	12

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73	High-risk echocardiographic features predict mortality in pulmonary arterial hypertension. American Heart Journal, 2017, 189, 167-176.	2.7	12
74	Impact of gender on rest Tc-99m sestamibi-gated left ventricular ejection fraction. American Journal of Cardiology, 2002, 89, 1238-1241.	1.6	11
75	Targeted Disruption of K_{ATP} Channels Aggravates Cardiac Toxicity in Cocaine Abuse. Clinical and Translational Science, 2009, 2, 361-365.	3.1	11
76	Thrombocytopenia independently predicts death in idiopathic PAH. Heart and Lung: Journal of Acute and Critical Care, 2019, 48, 34-38.	1.6	11
77	Impact of Aortic Valve Replacement for Severe Aortic Stenosis on Perioperative Outcomes Following Major Noncardiac Surgery. Mayo Clinic Proceedings, 2020, 95, 727-737.	3.0	11
78	ST-segment Elevation, Myocardial Injury, and Suspected or Confirmed COVID-19 Patients: Diagnostic and Treatment Uncertainties. Mayo Clinic Proceedings, 2020, 95, 1107-1111.	3.0	11
79	Diastolic Stress Test for the Evaluation of Exertional Dyspnea. Current Cardiology Reports, 2012, 14, 359-365.	2.9	10
80	Dramatic and sustained responsiveness of pulmonary Langerhans cell histiocytosis-associated pulmonary hypertension to vasodilator therapy. Respiratory Medicine Case Reports, 2015, 14, 13-15.	0.4	10
81	Incidence and Management of Hemopericardium: Impact of Changing Trends in Invasive Cardiology. Mayo Clinic Proceedings, 2018, 93, 1086-1095.	3.0	10
82	Title is missing!. Journal of Muscle Research and Cell Motility, 2003, 24, 271-276.	2.0	9
83	Calf muscle pump function as a predictor of all-cause mortality. Vascular Medicine, 2020, 25, 519-526.	1.5	9
84	Restenosis following Percutaneous Renal Artery Revascularization. Nephron Clinical Practice, 2007, 107, c63-c69.	2.3	8
85	Lung Ultrasound During Stress Echocardiography Aids the Evaluation of Valvular Heart Disease Severity. JACC: Cardiovascular Imaging, 2020, 13, 866-872.	5.3	8
86	Bleeding Complications of Ultrasound-Guided Pericardiocentesis in the Presence of Coagulopathy or Thrombocytopenia. Journal of the American Society of Echocardiography, 2020, 33, 399-401.	2.8	7
87	Dobutamine Stress Echocardiography: Impact of Abnormal Blood Potassium Levels on Cardiac Arrhythmias. Journal of the American Society of Echocardiography, 2017, 30, 595-601.	2.8	5
88	Echocardiographic Diastolic Stress Testing: What Does It Add?. Current Cardiology Reports, 2019, 21, 109.	2.9	5
89	Unfavorable Tricuspid Annulus Dynamics: A Novel Concept to Explain Development of Tricuspid Regurgitation in Atrial Fibrillation. Journal of the American Society of Echocardiography, 2022, 35, 664-666.	2.8	5
90	Pulmonary Hypertension in Patients Undergoing Transcatheter Aortic Valve Replacement. Circulation: Cardiovascular Interventions, 2015, 8, e002253.	3.9	4

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91	Association of Postprocedural Left Atrial Volume and Reservoir Function with Outcomes in Patients with Atrial Fibrillation Undergoing Catheter Ablation. Journal of the American Society of Echocardiography, 2022, 35, 818-828.e3.	2.8	4
92	77-Year-Old Woman With Back Pain and Shortness of Breath. Mayo Clinic Proceedings, 2010, 85, 176-179.	3.0	3
93	Safe Operation of an Echocardiography Practice During the COVID-19 Pandemic: Single-Center Experience. Mayo Clinic Proceedings, 2021, 96, 531-536.	3.0	3
94	Renal artery stenosis and hypertension in pregnancy. American Journal of Hypertension, 2002, 15, A20.	2.0	1
95	Impact of Anemia on Exercise and Pharmacologic Stress Echocardiography. Journal of the American Society of Echocardiography, 2020, 33, 1067-1076.	2.8	1
96	Rate-Pressure Product versus Peak Heart Rate for Assessment of Stress Adequacy during Dobutamine Stress Echocardiography. Journal of the American Society of Echocardiography, 2021, 34, 696-698.	2.8	1
97	The role of nephrectomy for pressor kidney in the current era. American Journal of Hypertension, 2001, 14, A254-A255.	2.0	0
98	Authors' Reply. Journal of the American Society of Echocardiography, 2020, 33, 1294-1295.	2.8	0
99	Agitated Blood-Saline Rather Than Agitated Air-Saline for Echocardiographic Shunt Studies. Journal of the American Society of Echocardiography, 2020, 33, 1032-1033.	2.8	0
100	Pulmonary Hypertension in Heart Failure With Preserved Ejection Fraction. , 2021, , 452-462.		0
101	Nursing Staff Administered Topical Lidocaine Anesthesia in Transesophageal Echocardiography: Impact on Quality, Delivery of Care, and the Rates of Methemoglobinemia. Journal of the American Society of Echocardiography, 2021, 34, 795-798.	2.8	0
102	Cardiac ATP-Sensitive Potassium Channels and Associated Channelopathies. , 2013, , 245-258.		0