

Erwan Donal

List of Publications by Year in descending order

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104
papers

7,321
citations

109264

35
h-index

58549

82
g-index

105
all docs

105
docs citations

105
times ranked

7333
citing authors

#	ARTICLE	IF	CITATIONS
1	Percutaneous Repair or Medical Treatment for Secondary Mitral Regurgitation. <i>New England Journal of Medicine</i> , 2018, 379, 2297-2306.	13.9	1,276
2	How to diagnose heart failure with preserved ejection fraction: the HFAâ€PEFF diagnostic algorithm: a consensus recommendation from the Heart Failure Association (HFA) of the European Society of Cardiology (ESC). <i>European Heart Journal</i> , 2019, 40, 3297-3317.	1.0	944
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. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 591-600.	0.5	891
4	The clinical use of stress echocardiography in non-ischæmic heart disease: recommendations from the European Association of Cardiovascular Imaging and the American Society of Echocardiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 1191-1229.	0.5	300
5	Echo-Doppler estimation of left ventricular filling pressure: results of the multicentre EACVI Euro-Filling study. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 961-968.	0.5	253
6	Toward understanding response to cardiac resynchronization therapy: left ventricular dyssynchrony is only one of multiple mechanisms. <i>European Heart Journal</i> , 2009, 30, 940-949.	1.0	211
7	The multi-modality cardiac imaging approach to the Athlete's heart: an expert consensus of the European Association of Cardiovascular Imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2015, 16, 353-353r.	0.5	199
8	How to diagnose heart failure with preserved ejection fraction: the HFAâ€PEFF diagnostic algorithm: a consensus recommendation from the Heart Failure Association (HFA) of the European Society of Cardiology (ESC). <i>European Journal of Heart Failure</i> , 2020, 22, 391-412.	2.9	193
9	Low-Flow, Low-Gradient Severe Aortic Stenosis Despite Normal Ejection Fraction Is Associated With Severe Left Ventricular Dysfunction as Assessed by Speckle-Tracking Echocardiography. <i>Circulation: Cardiovascular Imaging</i> , 2012, 5, 27-35.	1.3	183
10	Isolated tricuspid valve surgery: impact of aetiology and clinical presentation on outcomes. <i>European Heart Journal</i> , 2020, 41, 4304-4317.	1.0	147
11	Estimation of myocardial work from pressureâ€strain loops analysis: an experimental evaluation. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 1372-1379.	0.5	146
12	Comprehensive multi-modality imaging approach in arrhythmogenic cardiomyopathyâ€an expert consensus document of the European Association of Cardiovascular Imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 237-253.	0.5	123
13	Association between cardiovascular vs. nonâ€cardiovascular coâ€morbidity and outcomes in heart failure with preserved ejection fraction. <i>European Journal of Heart Failure</i> , 2014, 16, 992-1001.	2.9	119
14	TRI-SCORE: a new risk score for in-hospital mortality prediction after isolated tricuspid valve surgery. <i>European Heart Journal</i> , 2022, 43, 654-662.	1.0	119
15	Value of Myocardial Work Estimation in the Prediction of Response to Cardiac Resynchronization Therapy. <i>Journal of the American Society of Echocardiography</i> , 2018, 31, 220-230.	1.2	111
16	Recognition and Significance of Pathological T-Wave Inversions in Athletes. <i>Circulation</i> , 2015, 131, 165-173.	1.6	107
17	Inflammatory Biomarkers Predict Heart Failure Severity and Prognosis in Patients With Heart Failure With Preserved Ejection Fraction. <i>Circulation: Cardiovascular Genetics</i> , 2017, 10, .	5.1	107
18	Role of myocardial constructive work in the identification of responders to CRT. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 1010-1018.	0.5	106

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19	Assessment of Subclinical Left Ventricular Dysfunction in Aortic Stenosis. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 163-171.	2.3	91
20	Identification of novel pheno-groups in heart failure with preserved ejection fraction using machine learning. <i>Heart</i> , 2020, 106, 342-349.	1.2	89
21	Myocardial constructive work is impaired in hypertrophic cardiomyopathy and predicts left ventricular fibrosis. <i>Echocardiography</i> , 2019, 36, 74-82.	0.3	79
22	New echocardiographic predictors of clinical outcome in patients presenting with heart failure and a preserved left ventricular ejection fraction: a subanalysis of the Ka (Karolinska) Ren (Rennes) Study. <i>European Journal of Heart Failure</i> , 2015, 17, 680-688.	2.9	77
23	Prevalence and prognostic value of right ventricular dysfunction in severe aortic stenosis. <i>European Heart Journal Cardiovascular Imaging</i> , 2015, 16, 531-538.	0.5	77
24	Imaging predictors of response to cardiac resynchronization therapy: left ventricular work asymmetry by echocardiography and septal viability by cardiac magnetic resonance. <i>European Heart Journal</i> , 2020, 41, 3813-3823.	1.0	75
25	Tricuspid regurgitation: recent advances in understanding pathophysiology, severity grading and outcome. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 913-929.	0.5	73
26	Fabry disease in cardiology practice: Literature review and expert point of view. <i>Archives of Cardiovascular Diseases</i> , 2019, 112, 278-287.	0.7	69
27	How to measure left ventricular myocardial work by pressure-strain loops. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 259-261.	0.5	68
28	Multimodality imaging in the diagnosis, risk stratification, and management of patients with dilated cardiomyopathies: an expert consensus document from the European Association of Cardiovascular Imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 1075-1093.	0.5	65
29	Correlation between non-invasive myocardial work indices and main parameters of systolic and diastolic function: results from the EACVI NORRE study. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 533-541.	0.5	63
30	Multicentre study using strain delay index for predicting response to cardiac resynchronization therapy (MUSIC study). <i>European Journal of Heart Failure</i> , 2011, 13, 984-991.	2.9	59
31	Echocardiographic reference ranges for myocardial work in healthy subjects: A preliminary study. <i>Echocardiography</i> , 2019, 36, 1814-1824.	0.3	55
32	LV Mechanics in Mitral and Aortic Valve Diseases. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 1151-1166.	2.3	53
33	Right ventricular longitudinal strain in the clinical routine: a state-of-the-art review. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 898-912.	0.5	49
34	Rationale and design of the Karolinska-Rennes (KaRen) prospective study of dyssynchrony in heart failure with preserved ejection fraction. <i>European Journal of Heart Failure</i> , 2009, 11, 198-204.	2.9	47
35	Mitral regurgitation in dilated cardiomyopathy: value of both regional left ventricular contractility and dyssynchrony. <i>European Journal of Echocardiography</i> , 2009, 10, 133-138.	2.3	40
36	Acute redistribution of regional left ventricular work by cardiac resynchronization therapy determines long-term remodelling. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 619-628.	0.5	40

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37	Mechanical Dispersion by Strain Echocardiography: A Novel Tool to Diagnose Hypertrophic Cardiomyopathy in Athletes. <i>Journal of the American Society of Echocardiography</i> , 2017, 30, 251-261.	1.2	37
38	Diagnostic accuracy of lung ultrasound for identification of elevated left ventricular filling pressure. <i>International Journal of Cardiology</i> , 2019, 281, 62-68.	0.8	35
39	Prognostic Usefulness of Myocardial Work in Patients With Heart Failure and Reduced Ejection Fraction Treated by Sacubitril/Valsartan. <i>American Journal of Cardiology</i> , 2020, 125, 1856-1862.	0.7	33
40	Patient reported outcome in HFpEF: Sex-specific differences in quality of life and association with outcome. <i>International Journal of Cardiology</i> , 2018, 267, 128-132.	0.8	28
41	Impact of Cardiac Resynchronization Therapy on Left Ventricular Mechanics: Understanding the Response through a New Quantitative Approach Based on Longitudinal Strain Integrals. <i>Journal of the American Society of Echocardiography</i> , 2015, 28, 700-708.	1.2	25
42	Heart failure with preserved ejection fraction: A clustering approach to a heterogenous syndrome. <i>Archives of Cardiovascular Diseases</i> , 2020, 113, 381-390.	0.7	23
43	Model-based analysis of myocardial strain data acquired by tissue Doppler imaging. <i>Artificial Intelligence in Medicine</i> , 2008, 44, 201-219.	3.8	22
44	Comparison of the Transarterial and Transthoracic Approaches in Nontransfemoral Transcatheter Aortic Valve Implantation. <i>American Journal of Cardiology</i> , 2019, 123, 1501-1509.	0.7	21
45	Rational and design of EuroCRT: an international observational study on multi-modality imaging and cardiac resynchronization therapy. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 1120-1127.	0.5	19
46	Vericiguat for the treatment of heart failure: mechanism of action and pharmacological properties compared with other emerging therapeutic options. <i>Expert Opinion on Pharmacotherapy</i> , 2021, 22, 1847-1855.	0.9	18
47	Myocardial work is a predictor of exercise tolerance in patients with dilated cardiomyopathy and left ventricular dyssynchrony. <i>International Journal of Cardiovascular Imaging</i> , 2020, 36, 45-53.	0.7	17
48	Model-based estimation of left ventricular pressure and myocardial work in aortic stenosis. <i>PLoS ONE</i> , 2020, 15, e0229609.	1.1	17
49	Noninvasive estimation of left heart filling pressures: another nail in the coffin for E/e'?. <i>European Journal of Heart Failure</i> , 2017, 19, 1661-1663.	2.9	16
50	Multimodality imaging approach to left ventricular dysfunction in diabetes: an expert consensus document from the European Association of Cardiovascular Imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, e62-e84.	0.5	16
51	Natural history of functional tricuspid regurgitation: impact of cardiac output. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 878-885.	0.5	15
52	New expectations for diastolic function assessment in transthoracic echocardiography based on a semi-automated computing of strain-volume loops. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 1366-1371.	0.5	14
53	Phenomapping Heart Failure with Preserved Ejection Fraction Using Machine Learning Cluster Analysis. <i>Heart Failure Clinics</i> , 2021, 17, 499-518.	1.0	14
54	Prediction of response to cardiac resynchronization therapy using a multi-feature learning method. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 989-998.	0.7	13

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55	Predictors of long-term outcome in heart failure with preserved ejection fraction: a follow-up from the KaRen study. ESC Heart Failure, 2021, 8, 4243-4254.	1.4	13
56	Close: Closure of patent foramen ovale, oral anticoagulants or antiplatelet therapy to prevent stroke recurrence: Study design. International Journal of Stroke, 2016, 11, 724-732.	2.9	12
57	Non-vitamin K antagonist oral anticoagulants and heart failure. Archives of Cardiovascular Diseases, 2016, 109, 641-650.	0.7	12
58	Secondary tricuspid regurgitation: Do we understand what we would like to treat?. Archives of Cardiovascular Diseases, 2019, 112, 642-651.	0.7	12
59	Importance of structural heart disease and diastolic dysfunction in heart failure with preserved ejection fraction assessed according to the ESC guidelines - A substudy in the Ka (Karolinska) Ren (Rennes) study. International Journal of Cardiology, 2019, 274, 202-207.	0.8	10
60	New Multiparametric Analysis of Cardiac Dyssynchrony: Machine Learning and Prediction of Response to CRT. JACC: Cardiovascular Imaging, 2019, 12, 1887-1888.	2.3	10
61	Left ventricular function after correction of mitral regurgitation: Impact of the clipping approach. Echocardiography, 2019, 36, 2010-2018.	0.3	10
62	EACVI communication paper: first international young dedicated multimodal cardiovascular imaging simulation education event organized by the ESC. European Heart Journal Cardiovascular Imaging, 2020, 21, 124-126.	0.5	10
63	Prognostic values of exercise echocardiography and cardiopulmonary exercise testing in patients with primary mitral regurgitation. European Heart Journal Cardiovascular Imaging, 2022, 23, 1552-1561.	0.5	9
64	Functional tricuspid regurgitation: A clustering analysis and prognostic validation of three echocardiographic phenotypes in an external cohort. International Journal of Cardiology, 2022, 365, 140-147.	0.8	9
65	Influence of centre expertise on the diagnosis and management of hypertrophic cardiomyopathy: A study from the French register of hypertrophic cardiomyopathy (REMY). International Journal of Cardiology, 2019, 275, 107-113.	0.8	8
66	Multicentric randomized evaluation of a tricuspid valve percutaneous repair system (clip for the Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3). European Heart Journal Cardiovascular Imaging, 2022, 23, 1617-1627.	0.5	8
67	Lateral Wall Dysfunction Signals Onset of Progressive Heart Failure in Left Bundle Branch Block. JACC: Cardiovascular Imaging, 2021, 14, 2059-2069.	2.3	7
68	How to assess severe tricuspid regurgitation by echocardiography?. European Heart Journal Cardiovascular Imaging, 2022, 23, 1273-1276.	0.5	7
69	Discriminative dictionary learning for local LV wall motion classification in cardiac MRI. Expert Systems With Applications, 2019, 129, 286-295.	4.4	6
70	Fusion of 3D real-time echocardiography and cine MRI using a saliency analysis. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 277-285.	1.7	6
71	Desynchronization Strain Patterns and Contractility in Left Bundle Branch Block through Computer Model Simulation. Journal of Cardiovascular Development and Disease, 2022, 9, 53.	0.8	6
72	How myocardial work could be relevant in patients with an aortic valve stenosis?. European Heart Journal Cardiovascular Imaging, 2022, 24, 119-129.	0.5	6

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73	Clinical significance of myocardial work parameters after acute myocardial infarction. <i>European Heart Journal Open</i> , 2022, 2, .	0.9	6
74	Approach to optimal assessment of right ventricular remodelling in heart transplant recipients: insights from myocardial work index, T1 mapping, and endomyocardial biopsy. <i>European Heart Journal Cardiovascular Imaging</i> , 2023, 24, 354-363.	0.5	6
75	Predicting Clinical and Echocardiographic Response After Cardiac Resynchronization Therapy With a Score Combining Clinical, Electrocardiographic, and Echocardiographic Parameters. <i>American Journal of Cardiology</i> , 2017, 119, 1797-1802.	0.7	5
76	Do Patients With Acute Heart Failure and Preserved Ejection Fraction Have Heart Failure at Follow-Up: Implications of the Framingham Criteria. <i>Journal of Cardiac Failure</i> , 2020, 26, 673-684.	0.7	5
77	The impact of diabetes on heart failure development: The cardio-renal-metabolic connection. <i>Diabetes Research and Clinical Practice</i> , 2021, 175, 108831.	1.1	5
78	Advocacy for more consideration of the secondary tricuspid regurgitation. <i>Heart</i> , 2019, 105, 1221-1222.	1.2	4
79	Management and outcomes of hypertrophic cardiomyopathy in young adults. <i>Archives of Cardiovascular Diseases</i> , 2021, 114, 465-473.	0.7	4
80	Impact of sacubitril/valsartan on systolic heart failure: Right heart location and clustering analysis. <i>Advances in Clinical and Experimental Medicine</i> , 2022, 31, 109-119.	0.6	4
81	EuroEcho-imaging 2017: highlights. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 482-489.	0.5	3
82	Need for expertise in mitral valve regurgitation. <i>Open Heart</i> , 2019, 6, e001039.	0.9	3
83	Dynamic secondary mitral regurgitation: squaring the circle. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 539-540.	0.5	3
84	Are We Right to Believe in the Value of Transcatheter Treatment of Secondary Tricuspid Regurgitation?. <i>Journal of the American College of Cardiology</i> , 2021, 77, 240-242.	1.2	3
85	Artificial intelligence and the promise of uplifting echocardiography. <i>Heart</i> , 2021, 107, 523-524.	1.2	3
86	EDUCATIONAL SERIES ON THE SPECIALIST VALVE CLINIC: The central role of the cardiac imager in heart valve disease. <i>Echo Research and Practice</i> , 2019, 6, T15-T21.	0.6	3
87	Exercise-Induced Cardiac Fatigue in Soldiers Assessed by Echocardiography. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 785869.	1.1	3
88	Management of aortic valve replacement according to the gradient across symptomatic aortic valve stenosis and its prognostic impact. <i>Echocardiography</i> , 2019, 36, 2136-2144.	0.3	2
89	The new place of imaging in cardiology, from diagnosis to treatment. <i>Archives of Cardiovascular Diseases</i> , 2019, 112, 543-545.	0.7	2
90	Left ventricular strain for predicting the response to cardiac resynchronization therapy: two methods for one question. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, , .	0.5	2

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91	New indices of left ventricular function: let's move from ejection fraction to more physiological parameters. <i>Journal of Physiology</i> , 2017, 595, 3959-3960.	1.3	1
92	Combined exercise and imaging: key tool for clinical challenges. <i>Heart</i> , 2020, 106, 1041-1042.	1.2	1
93	Mechanical dyssynchrony is better understood and it might be a good news for heart failure patients. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 46-48.	0.5	1
94	Cardiac surgery in any context of left-sided infective endocarditis?. <i>Heart</i> , 2021, 107, heartjnl-2021-320051.	1.2	1
95	The future of the diastolic function assessment will take advantage of the past and of the automatization. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 599-600.	0.5	1
96	The value of exercise echocardiography in heart failure with preserved ejection fraction. <i>Journal of Ultrasonography: Official Publication of Polish Ultrasound Society / Red Nacz Iwona SudoÅ-SzopiÅska</i> , 2019, 19, 43-44.	0.7	1
97	Interaction between mitral valve apparatus and left ventricle. Functional mitral regurgitation: A brief state-of-the-art overview. <i>Advances in Clinical and Experimental Medicine</i> , 2021, 30, 991-997.	0.6	1
98	Clinical relevance of spectral tissue Doppler-derived E/e' in the diagnosis of heart failure with preserved ejection fraction: reply. <i>European Journal of Heart Failure</i> , 2018, 20, 941-942.	2.9	0
99	Pericardial effusion in infective endocarditis: The times they are a-changin'. <i>International Journal of Cardiology</i> , 2019, 274, 252-253.	0.8	0
100	Haemodynamic evaluation: a key tool for heart failure management. <i>Ultrasounds forever!</i> . <i>European Journal of Heart Failure</i> , 2021, 23, 713-715.	2.9	0
101	Exercise stress echocardiography: a great tool that can be adapted to the clinical question?. <i>Open Heart</i> , 2021, 8, e001641.	0.9	0
102	Mitral regurgitation: not a single disease with systematic and identic functional and haemodynamic consequences. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 974-976.	0.5	0
103	Ventricular Interdependence and Biventricular Failure: Key Concept for Heart Failure Management. <i>Revista Romana De Cardiologie</i> , 2021, 31, 234-257.	0.0	0
104	OUP accepted manuscript. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, , .	0.5	0