

Robert J H Miller

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

1,546
citations

331259

21
h-index

454577

30
g-index

123
all docs

123
docs citations

123
times ranked

1703
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning to predict the long-term risk of myocardial infarction and cardiac death based on clinical risk, coronary calcium, and epicardial adipose tissue: a prospective study. <i>Cardiovascular Research</i> , 2020, 116, 2216-2225.	1.8	78
2	Deep Learning-Based Quantification of Epicardial Adipose Tissue Volume and Attenuation Predicts Major Adverse Cardiovascular Events in Asymptomatic Subjects. <i>Circulation: Cardiovascular Imaging</i> , 2020, 13, e009829.	1.3	77
3	Solid-State Detector SPECT Myocardial Perfusion Imaging. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1194-1204.	2.8	57
4	Development and evaluation of a novel fast broad-range 16S ribosomal DNA PCR and sequencing assay for diagnosis of bacterial infective endocarditis: multi-year experience in a large Canadian healthcare zone and a literature review. <i>BMC Infectious Diseases</i> , 2016, 16, 146.	1.3	47
5	Clinical Deployment of Explainable Artificial Intelligence of SPECT for Diagnosis of Coronary Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 1091-1102.	2.3	44
6	Prognostically safe stress-only single-photon emission computed tomography myocardial perfusion imaging guided by machine learning: report from REFINE SPECT. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 705-714.	0.5	38
7	Machine learning integration of circulating and imaging biomarkers for explainable patient-specific prediction of cardiac events: A prospective study. <i>Atherosclerosis</i> , 2021, 318, 76-82.	0.4	37
8	Outcomes in patients undergoing cardiac retransplantation: A propensity matched cohort analysis of the UNOS Registry. <i>Journal of Heart and Lung Transplantation</i> , 2019, 38, 1067-1074.	0.3	33
9	Risk evaluation using gene expression screening to monitor for acute cellular rejection in heart transplant recipients. <i>Journal of Heart and Lung Transplantation</i> , 2019, 38, 51-58.	0.3	33
10	Metabolic syndrome, fatty liver, and artificial intelligence-based epicardial adipose tissue measures predict long-term risk of cardiac events: a prospective study. <i>Cardiovascular Diabetology</i> , 2021, 20, 27.	2.7	33
11	Quantification of myocardial blood flow by CZT-SPECT with motion correction and comparison with 15O-water PET. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 1477-1486.	1.4	31
12	A Novel Approach to Medical Management of Heart Failure With Reduced Ejection Fraction. <i>Canadian Journal of Cardiology</i> , 2021, 37, 632-643.	0.8	31
13	Comparative Prognostic and Diagnostic Value of Myocardial Blood Flow and Myocardial Flow Reserve After Cardiac Transplantation. <i>Journal of Nuclear Medicine</i> , 2020, 61, 249-255.	2.8	28
14	Percutaneous or surgical revascularization is associated with survival benefit in stable coronary artery disease. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 961-970.	0.5	28
15	Impact of Early Revascularization on Major Adverse Cardiovascular Events in Relation to Automatically Quantified Ischemia. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 644-653.	2.3	28
16	LV Mass Independently Predicts Mortality and Need for Future Revascularization in Patients Undergoing Diagnostic Coronary Angiography. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 423-433.	2.3	27
17	Diagnostic and prognostic value of Technetium-99m pyrophosphate uptake quantitation for transthyretin cardiac amyloidosis. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 1835-1845.	1.4	27
18	Association of Cardiovascular Disease Risk Factor Burden With Progression of Coronary Atherosclerosis Assessed by Serial Coronary Computed Tomographic Angiography. <i>JAMA Network Open</i> , 2020, 3, e2011444.	2.8	26

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19	Determining a minimum set of variables for machine learning cardiovascular event prediction: results from REFINE SPECT registry. <i>Cardiovascular Research</i> , 2022, 118, 2152-2164.	1.8	26
20	Baseline Functional Class and Therapeutic Efficacy of Common Heart Failure Interventions: A Systematic Review and Meta-analysis. <i>Canadian Journal of Cardiology</i> , 2015, 31, 792-799.	0.8	25
21	Application and Translation of Artificial Intelligence to Cardiovascular Imaging in Nuclear Medicine and Noncontrast CT. <i>Seminars in Nuclear Medicine</i> , 2020, 50, 357-366.	2.5	23
22	Transient ischaemic dilation and post-stress wall motion abnormality increase risk in patients with less than moderate ischaemia: analysis of the REFINE SPECT registry. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 567-575.	0.5	21
23	Diagnostic safety of a machine learning-based automatic patient selection algorithm for stress-only myocardial perfusion SPECT. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2295-2307.	1.4	21
24	Prognostic Value of Computed Tomographyâ€“Derived Extracellular Volume in TAVR Patients With Low-Flow Low-Gradient Aortic Stenosis. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2591-2601.	2.3	20
25	Quantitative Assessment of Cardiac Hypermetabolism and Perfusion for Diagnosis of Cardiac Sarcoidosis. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 86-96.	1.4	20
26	Visually estimated coronary artery calcium score improves SPECT-MPI risk stratification. <i>IJC Heart and Vasculature</i> , 2021, 35, 100827.	0.6	20
27	Computed tomography angiography-derived extracellular volume fraction predicts early recovery of left ventricular systolic function after transcatheter aortic valve replacement. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 179-185.	0.5	20
28	Prognostic significance of previous myocardial infarction and previous revascularization in patients undergoing SPECT MPI. <i>International Journal of Cardiology</i> , 2020, 313, 9-15.	0.8	19
29	Benefit of Early Revascularization Based on Inducible Ischemia and Left Ventricular Ejection Fraction. <i>Journal of the American College of Cardiology</i> , 2022, 80, 202-215.	1.2	19
30	Gene expression profiling and racial disparities in outcomes after heart transplantation. <i>Journal of Heart and Lung Transplantation</i> , 2019, 38, 820-829.	0.3	18
31	Comparative Prognostic Accuracy of Risk Prediction Models for Cardiogenic Shock. <i>Journal of Intensive Care Medicine</i> , 2020, 35, 1513-1519.	1.3	18
32	Sex-specific relationships between patterns of ventricular remodelling and clinical outcomes. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 983-990.	0.5	18
33	Sex Disparities in Effects of Cystic Fibrosis-Related Diabetes on Clinical Outcomes: A Matched Study. <i>Canadian Respiratory Journal</i> , 2008, 15, 291-294.	0.8	17
34	Upper reference limits of transient ischemic dilation ratio for different protocols on new-generation cadmium zinc telluride cameras: A report from REFINE SPECT registry. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 1180-1189.	1.4	17
35	Donor and Recipient Size Matching in Heart Transplantation With Predicted Heart and Lean Body Mass. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2022, 34, 158-167.	0.4	17
36	Economic Evaluation of Left Ventricular Assist Devices for Patients With End Stage Heart Failure Who Are Ineligible for Cardiac Transplantation. <i>Canadian Journal of Cardiology</i> , 2017, 33, 1283-1291.	0.8	16

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37	Relationship between ischaemia, coronary artery calcium scores, and major adverse cardiovascular events. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 1423-1433.	0.5	16
38	Evaluation of glucose tolerance in cystic fibrosis: Comparison of 50-g and 75-g tests. <i>Journal of Cystic Fibrosis</i> , 2007, 6, 274-276.	0.3	15
39	Quantitative clinical nuclear cardiology, part 2: Evolving/emerging applications. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 115-127.	1.4	15
40	Prediction of revascularization by coronary CT angiography using a machine learning ischemia risk score. <i>European Radiology</i> , 2021, 31, 1227-1235.	2.3	15
41	Left ventricular assist devices: A comprehensive review of major clinical trials, devices, and future directions. <i>Journal of Cardiac Surgery</i> , 2021, 36, 1480-1491.	0.3	15
42	Impact of cancer diagnosis on causes and outcomes of 5.9 million US patients with cardiovascular admissions. <i>International Journal of Cardiology</i> , 2021, 341, 76-83.	0.8	15
43	Innovations in Ventricular Assist Devices for End-Stage Heart Failure. <i>Annual Review of Medicine</i> , 2019, 70, 33-44.	5.0	14
44	Handling missing values in machine learning to predict patient-specific risk of adverse cardiac events: Insights from REFINE SPECT registry. <i>Computers in Biology and Medicine</i> , 2022, 145, 105449.	3.9	14
45	Coronary computed tomographyâ€“angiography quantitative plaque analysis improves detection of early cardiac allograft vasculopathy: A pilot study. <i>American Journal of Transplantation</i> , 2020, 20, 1375-1383.	2.6	13
46	Prognostic Value of Phase Analysis for Predicting Adverse Cardiac Events Beyond Conventional Single-Photon Emission Computed Tomography Variables: Results From the REFINE SPECT Registry. <i>Circulation: Cardiovascular Imaging</i> , 2021, 14, e012386.	1.3	13
47	The accuracy of coronary CT angiography in patients with coronary calcium score above 1000 Agatston Units: Comparison with quantitative coronary angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 412-418.	0.7	13
48	Percutaneous Left Ventricular Assist Device in Cardiogenic Shock: A Five-Year Single Canadian Center Initial Experience. <i>CJC Open</i> , 2020, 2, 370-378.	0.7	13
49	Temporal trends in disease-specific causes of cardiovascular mortality amongst patients with cancer in the USA between 1999 and 2019. <i>European Heart Journal Quality of Care & Clinical Outcomes</i> , 2022, 9, 54-63.	1.8	13
50	Temporal shift and predictive performance of machine learning for heart transplant outcomes. <i>Journal of Heart and Lung Transplantation</i> , 2022, 41, 928-936.	0.3	12
51	Impact of heart rate on coronary computed tomographic angiography interpretability with a third-generation dual-source scanner. <i>International Journal of Cardiology</i> , 2019, 295, 42-47.	0.8	11
52	Transplant Outcomes in Destination Therapy Left Ventricular Assist Device Patients. <i>ASAIO Journal</i> , 2020, 66, 394-398.	0.9	11
53	Automated quantitative analysis of CZT SPECT stratifies cardiovascular risk in the obese population: Analysis of the REFINE SPECT registry. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 727-736.	1.4	11
54	Cost-Effectiveness of Earlier Transition to Angiotensin Receptor Nephilysin Inhibitor in Patients With Heart Failure and Reduced Ejection Fraction. <i>CJC Open</i> , 2020, 2, 447-453.	0.7	11

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55	Evolving role for mineralocorticoid receptor antagonists in heart failure with preserved ejection fraction. <i>Current Opinion in Cardiology</i> , 2015, 30, 168-172.	0.8	10
56	Defining genotype-phenotype relationships in patients with hypertrophic cardiomyopathy using cardiovascular magnetic resonance imaging. <i>PLoS ONE</i> , 2019, 14, e0217612.	1.1	10
57	Diagnostic Accuracy of Cardiovascular Magnetic Resonance for Cardiac Transplant Rejection. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 2337-2349.	2.3	10
58	Quantitative myocardial tissue characterization by cardiac magnetic resonance in heart transplant patients with suspected cardiac rejection. <i>Clinical Transplantation</i> , 2019, 33, e13704.	0.8	9
59	CZT camera systems may provide better risk stratification for low-risk patients. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 2927-2936.	1.4	9
60	The application of artificial intelligence in nuclear cardiology. <i>Annals of Nuclear Medicine</i> , 2022, 36, 111-122.	1.2	9
61	Artificial intelligence for disease diagnosis and risk prediction in nuclear cardiology. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 1754-1762.	1.4	9
62	Value of semiquantitative assessment of high-risk plaque features on coronary CT angiography over stenosis in selection of studies for FFRct. <i>Journal of Cardiovascular Computed Tomography</i> , 2022, 16, 27-33.	0.7	8
63	Quantitative technetium pyrophosphate and cardiovascular magnetic resonance in patients with suspected cardiac amyloidosis. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2679-2690.	1.4	8
64	Relationships among achieved heart rate, β -blocker dose and long-term outcomes in patients with heart failure with atrial fibrillation. <i>Open Heart</i> , 2016, 3, e000520.	0.9	7
65	Effects of a reminder to initiate oral anticoagulation in patients with atrial fibrillation/atrial flutter discharged from the emergency department: REMINDER study. <i>Canadian Journal of Emergency Medicine</i> , 2018, 20, 841-849.	0.5	7
66	Risk factors for early development of cardiac allograft vasculopathy by intravascular ultrasound. <i>Clinical Transplantation</i> , 2020, 34, e14098.	0.8	7
67	Quantitation of Poststress Change in Ventricular Morphology Improves Risk Stratification. <i>Journal of Nuclear Medicine</i> , 2021, 62, 1582-1590.	2.8	7
68	Artificial intelligence-based attenuation correction; closer to clinical reality?. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2251-2253.	1.4	7
69	The prevalence and predictors of inducible myocardial ischemia among patients referred for radionuclide stress testing. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2839-2849.	1.4	7
70	Machine learning to predict abnormal myocardial perfusion from pre-test features. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2393-2403.	1.4	7
71	Factors Influencing Oral Anticoagulation Prescription for Patients Presenting to Emergency Departments With Atrial Fibrillation and Flutter. <i>Canadian Journal of Cardiology</i> , 2018, 34, 804-807.	0.8	6
72	Implementation of a Multidisciplinary Inpatient Cardiology Service to Improve Heart Failure Outcomes in Guyana. <i>Journal of Cardiac Failure</i> , 2018, 24, 835-841.	0.7	6

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73	Infectious complications after heart transplantation in patients screened with gene expression profiling. <i>Journal of Heart and Lung Transplantation</i> , 2019, 38, 611-618.	0.3	6
74	Simulation of Low-Dose Protocols for Myocardial Perfusion ⁸² Rb Imaging. <i>Journal of Nuclear Medicine</i> , 2021, 62, 1112-1117.	2.8	6
75	Recurrent Syncope in the Emergency Department. <i>JAMA Internal Medicine</i> , 2017, 177, 874.	2.6	5
76	Should positron emission tomography be the standard of care for non-invasive surveillance following cardiac transplantation?. <i>Journal of Nuclear Cardiology</i> , 2019, 26, 655-659.	1.4	5
77	Predicting Transfusions During Left Ventricular Assist Device Implant. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2020, 32, 747-755.	0.4	5
78	Association between coronary atherosclerotic burden and all-cause mortality among patients undergoing exercise versus pharmacologic stress-rest SPECT myocardial perfusion imaging. <i>Atherosclerosis</i> , 2020, 310, 45-53.	0.4	5
79	Quantitative clinical nuclear cardiology, part 2: Evolving/emerging applications. <i>Journal of Nuclear Medicine</i> , 2021, 62, 168-176.	2.8	5
80	Prognostic value of early left ventricular ejection fraction reserve during regadenoson stress solid-state SPECT-MPI. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 1219-1230.	1.4	5
81	External validation of the CRAX2MACE model. <i>Journal of Nuclear Cardiology</i> , 2023, 30, 702-707.	1.4	5
82	Chemotherapy-Associated Steatohepatitis with Temozolomide and Dexamethasone. <i>Canadian Journal of Neurological Sciences</i> , 2012, 39, 547-549.	0.3	4
83	Retrospective review of in hospital use of mineralocorticoid receptor antagonists for high risk patients following myocardial infarction. <i>BMC Cardiovascular Disorders</i> , 2015, 15, 46.	0.7	4
84	Does heart rate really matter to patients with heart failure?. <i>Current Opinion in Cardiology</i> , 2017, 32, 209-216.	0.8	4
85	Quantifying the Influence of Wedge Pressure, Age, and Heart Rate on the Systolic Thresholds for Detection of Pulmonary Hypertension. <i>Journal of the American Heart Association</i> , 2020, 9, e016265.	1.6	4
86	Clinical Utility of SPECT in the Heart Transplant Population. <i>Transplantation</i> , 2021, Publish Ahead of Print, .	0.5	4
87	Quantifying is believing: Techniques for evaluating transthyretin cardiac amyloidosis burden for expanded clinical applications. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 3111-3114.	1.4	4
88	Deep learning-based attenuation map generation and correction; could it be useful clinically?. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2893-2895.	1.4	4
89	Re-feeding syndrome and alcoholic cardiomyopathy: A case of interacting diagnoses. <i>Journal of Cardiology Cases</i> , 2016, 14, 90-93.	0.2	3
90	Kidney Function, ACE-Inhibitor/Angiotensin Receptor Blocker Use, and Survival Following Hospitalization for Heart Failure: A Cohort Study. <i>Canadian Journal of Kidney Health and Disease</i> , 2018, 5, 205435811880483.	0.6	3

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91	Computerized Electronic Order Set: Use and Outcomes for Heart Failure Following Hospitalization. CJC Open, 2020, 2, 497-505.	0.7	3
92	Heart failure with mildly reduced ejection fraction: retrospective study of ejection fraction trajectory risk. ESC Heart Failure, 2022, 9, 1564-1573.	1.4	3
93	Development and validation of ischemia risk scores. Journal of Nuclear Cardiology, 2023, 30, 324-334.	1.4	3
94	Cardiogenic Shock as a Complication of Takotsubo Cardiomyopathy in a Patient With Incarcerated Bowel. Journal of Cardiothoracic and Vascular Anesthesia, 2017, 31, 243-247.	0.6	2
95	Prognosis and Natural History of Conduction System Disease in Patients Undergoing Coronary Angiography. Canadian Journal of Cardiology, 2020, 36, 1261-1268.	0.8	2
96	Artificial Intelligence and Cardiac PET/Computed Tomography Imaging. PET Clinics, 2022, 17, 85-94.	1.5	2
97	Transplant phenomapping: A move toward personalized immunosuppression. Journal of Heart and Lung Transplantation, 2018, 37, 943-944.	0.3	1
98	Neglected cause of recurrent syncope: a case report of neurogenic orthostatic hypotension. European Heart Journal - Case Reports, 2019, 3, .	0.3	1
99	Pulmonary Hypertension Is a Potentially Reversible Contraindication to Cardiac Transplantation. ASAIO Journal, 2020, 66, e67-e67.	0.9	1
100	QUANTITATIVE ASSESSMENT OF MYOCARDIAL HYPERMETABOLISM AND PERFUSION FOR DIAGNOSIS OF CARDIAC SARCOIDOSIS. Journal of the American College of Cardiology, 2020, 75, 1648.	1.2	1
101	LIMITED PROGNOSTIC ABILITY OF SPECT IN THE HEART TRANSPLANT POPULATION: ANALYSIS FROM A SINGLE LARGE-VOLUME CENTER. Journal of the American College of Cardiology, 2020, 75, 1643.	1.2	1
102	Defining the role for PET myocardial blood flow early post cardiac transplant. Journal of Nuclear Cardiology, 2022, 29, 724-726.	1.4	1
103	Elucidating the pathophysiology of left bundle branch block related perfusion defects. Journal of Nuclear Cardiology, 2021, 28, 2923-2926.	1.4	1
104	Use of a Clinical Electrocardiographic Database to Enhance Atrial Fibrillation/Atrial Flutter Identification Algorithms Based on Administrative Data. Journal of the American Heart Association, 2021, 10, e018511.	1.6	1
105	Eosinophilia in a Man With Suspected Acute Coronary Syndrome. JAMA Internal Medicine, 2016, 176, 1711.	2.6	0
106	Inflammatory aortic aneurysm in a young patient with ankylosing spondylitis. Journal of Vascular Surgery, 2017, 66, 600-604.	0.6	0
107	Thyroid Dysfunction in Torsades de Pointesâ€”Reply. JAMA Internal Medicine, 2017, 177, 1693.	2.6	0
108	Response: Electrocardiographic Markers in Patients With Takotsubo Cardiomyopathy. Journal of Cardiothoracic and Vascular Anesthesia, 2017, 31, e31-e32.	0.6	0

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109	OUTCOMES IN PATIENTS UNDERGOING CARDIAC RE-TRANSPLANTATION: A PROPENSITY MATCHED COHORT ANALYSIS OF THE UNOS REGISTRY. <i>Journal of the American College of Cardiology</i> , 2019, 73, 741.	1.2	0
110	Reply: Clarifying the Utility of Myocardial Blood Flow and Myocardial Flow Reserve After Cardiac Transplantation. <i>Journal of Nuclear Medicine</i> , 2020, 61, 620.2-622.	2.8	0
111	In Reply to Tumin et al.. <i>Journal of Heart and Lung Transplantation</i> , 2020, 39, 285-286.	0.3	0
112	Is SPECT LVEF assessment more accurate than CT at higher heart rates? More evidence for complementary information in multimodality imaging. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 317-319.	1.4	0
113	Untying the Gordian knot of sex and heart failure therapy. <i>European Journal of Heart Failure</i> , 2021, 23, 1485-1487.	2.9	0
114	Novel Techniques: Solid-State Detectors, Dose Reduction (SPECT/CT). , 2022, , 103-129.		0
115	Heart Transplantation for Cardiac Amyloidosis: The Need for High Quality Data to Improve Patient Selection. <i>Canadian Journal of Cardiology</i> , 2022, , .	0.8	0
116	Eosinophilic Myocarditis Complicated by Massive Right Ventricular Thrombus. <i>Circulation: Cardiovascular Imaging</i> , 0, , .	1.3	0
117	Steroid Sparing Immunosuppression in Management of Cardiac Sarcoidosis: A Systematic Review. <i>Health Sciences Review</i> , 2022, , 100034.	0.6	0