## John R Laird

## List of Publications by Year in descending order

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Version: 2024-02-01

87888 85541 5,720 116 38 71 citations h-index g-index papers 116 116 116 4058 times ranked docs citations citing authors all docs

#	Article	IF	CITATIONS
1	Understanding the bias in machine learning systems for cardiovascular disease risk assessment: The first of its kind review. Computers in Biology and Medicine, 2022, 142, 105204.	7.0	34
2	Cardiovascular disease detection using machine learning and carotid/femoral arterial imaging frameworks in rheumatoid arthritis patients. Rheumatology International, 2022, 42, 215-239.	3.0	18
3	Cardiovascular/Stroke Risk Stratification in Parkinson's Disease Patients Using Atherosclerosis Pathway and Artificial Intelligence Paradigm: A Systematic Review. Metabolites, 2022, 12, 312.	2.9	21
4	A Powerful Paradigm for Cardiovascular Risk Stratification Using Multiclass, Multi-Label, and Ensemble-Based Machine Learning Paradigms: A Narrative Review. Diagnostics, 2022, 12, 722.	2.6	20
5	Cardiovascular Risk Stratification in Diabetic Retinopathy via Atherosclerotic Pathway in COVID-19/Non-COVID-19 Frameworks Using Artificial Intelligence Paradigm: A Narrative Review. Diagnostics, 2022, 12, 1234.	2.6	15
6	Cardiovascular/Stroke Risk Assessment in Patients with Erectile Dysfunctionâ€"A Role of Carotid Wall Arterial Imaging and Plaque Tissue Characterization Using Artificial Intelligence Paradigm: A Narrative Review. Diagnostics, 2022, 12, 1249.	2.6	5
7	Eight pruning deep learning models for low storage and high-speed COVID-19 computed tomography lung segmentation and heatmap-based lesion localization: A multicenter study using COVLIAS 2.0. Computers in Biology and Medicine, 2022, 146, 105571.	7.0	30
8	COVLIAS 1.0Lesion vs. MedSeg: An Artificial Intelligence Framework for Automated Lesion Segmentation in COVID-19 Lung Computed Tomography Scans. Diagnostics, 2022, 12, 1283.	2.6	15
9	Deep Learning Paradigm for Cardiovascular Disease/Stroke Risk Stratification in Parkinson's Disease Affected by COVID-19: A Narrative Review. Diagnostics, 2022, 12, 1543.	2.6	7
10	Multiclass machine learning vs. conventional calculators for stroke/CVD risk assessment using carotid plaque predictors with coronary angiography scores as gold standard: a 500 participants study. International Journal of Cardiovascular Imaging, 2021, 37, 1171-1187.	1.5	41
11	Performance of the Wingman catheter in peripheral artery chronic total occlusions: Shortâ€term results from the international <scp>Wingâ€lt</scp> trial. Catheterization and Cardiovascular Interventions, 2021, 97, 310-316.	1.7	8
12	Wilson disease tissue classification and characterization using seven artificial intelligence models embedded with 3D optimization paradigm on a weak training brain magnetic resonance imaging datasets: a supercomputer application. Medical and Biological Engineering and Computing, 2021, 59, 511-533.	2.8	41
13	Cardiovascular disease and stroke risk assessment in patients with chronic kidney disease using integration of estimated glomerular filtration rate, ultrasonic image phenotypes, and artificial intelligence: a narrative review. International Angiology, 2021, 40, 150-164.	0.9	15
14	Role of artificial intelligence in cardiovascular risk prediction and outcomes: comparison of machine-learning and conventional statistical approaches for the analysis of carotid ultrasound features and intra-plaque neovascularization. International Journal of Cardiovascular Imaging, 2021, 37, 3145-3156.	1.5	15
15	A Review on Joint Carotid Intima-Media Thickness and Plaque Area Measurement in Ultrasound for Cardiovascular/Stroke Risk Monitoring: Artificial Intelligence Framework. Journal of Digital Imaging, 2021, 34, 581-604.	2.9	29
16	Multimodality carotid plaque tissue characterization and classification in the artificial intelligence paradigm: a narrative review for stroke application. Annals of Translational Medicine, 2021, 9, 1206-1206.	1.7	39
17	COVLIAS 1.0: Lung Segmentation in COVID-19 Computed Tomography Scans Using Hybrid Deep Learning Artificial Intelligence Models. Diagnostics, 2021, 11, 1405.	2.6	38
18	A Multicenter Study on Carotid Ultrasound Plaque Tissue Characterization and Classification Using Six Deep Artificial Intelligence Models: A Stroke Application. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	32

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19	Inter-Variability Study of COVLIAS 1.0: Hybrid Deep Learning Models for COVID-19 Lung Segmentation in Computed Tomography. Diagnostics, 2021, 11, 2025.	2.6	20
20	Unseen Artificial Intelligenceâ€"Deep Learning Paradigm for Segmentation of Low Atherosclerotic Plaque in Carotid Ultrasound: A Multicenter Cardiovascular Study. Diagnostics, 2021, 11, 2257.	2.6	33
21	COVLIAS 1.0 vs. MedSeg: Artificial Intelligence-Based Comparative Study for Automated COVID-19 Computed Tomography Lung Segmentation in Italian and Croatian Cohorts. Diagnostics, 2021, 11, 2367.	2.6	15
22	Development and validation of a predictive score for anterograde crossing of infrapopliteal chronic total occlusions: (The Infrapop TO Score). Catheterization and Cardiovascular Interventions, 2020, 95, 748-755.	1.7	12
23	Laser atherectomy and drugâ€coated balloons for the treatment of femoropopliteal inâ€stent restenosis: 2â€Year outcomes. Catheterization and Cardiovascular Interventions, 2020, 95, 439-446.	1.7	18
24	3-D optimized classification and characterization artificial intelligence paradigm for cardiovascular/stroke risk stratification using carotid ultrasound-based delineated plaque: Atheromaticâ,,¢ 2.0. Computers in Biology and Medicine, 2020, 125, 103958.	7.0	52
25	COVID-19 pathways for brain and heart injury in comorbidity patients: A role of medical imaging and artificial intelligence-based COVID severity classification: A review. Computers in Biology and Medicine, 2020, 124, 103960.	7.0	79
26	Artificial intelligence framework for predictive cardiovascular and stroke risk assessment models: A narrative review of integrated approaches using carotid ultrasound. Computers in Biology and Medicine, 2020, 126, 104043.	7.0	34
27	Cardiovascular/stroke risk prevention: A new machine learning framework integrating carotid ultrasound image-based phenotypes and its harmonics with conventional risk factors. Indian Heart Journal, 2020, 72, 258-264.	0.5	31
28	Does the Carotid Bulb Offer a Better 10-Year CVD/Stroke Risk Assessment Compared to the Common Carotid Artery? A 1516 Ultrasound Scan Study. Angiology, 2020, 71, 920-933.	1.8	16
29	Ultrasound-based stroke/cardiovascular risk stratification using Framingham Risk Score and ASCVD Risk Score based on "Integrated Vascular Age―instead of "Chronological Age― a multi-ethnic study of Asian Indian, Caucasian, and Japanese cohorts. Cardiovascular Diagnosis and Therapy, 2020, 10, 939-954.	1.7	15
30	Cardiovascular risk assessment in patients with rheumatoid arthritis using carotid ultrasound B-mode imaging. Rheumatology International, 2020, 40, 1921-1939.	3.0	25
31	Cardiovascular/stroke risk predictive calculators: a comparison between statistical and machine learning models. Cardiovascular Diagnosis and Therapy, 2020, 10, 919-938.	1.7	46
32	Two-stage artificial intelligence model for jointly measurement of atherosclerotic wall thickness and plaque burden in carotid ultrasound: A screening tool for cardiovascular/stroke risk assessment. Computers in Biology and Medicine, 2020, 123, 103847.	7.0	42
33	Morphological Carotid Plaque Area Is Associated With Glomerular Filtration Rate: A Study of South Asian Indian Patients With Diabetes and Chronic Kidney Disease. Angiology, 2020, 71, 520-535.	1.8	20
34	Global perspective on carotid intima-media thickness and plaque: should the current measurement guidelines be revisited? International Angiology, 2020, 38, 451-465.	0.9	39
35	Integration of estimated glomerular filtration rate biomarker in image-based cardiovascular disease/stroke risk calculator: a south Asian-Indian diabetes cohort with moderate chronic kidney disease. International Angiology, 2020, 39, 290-306.	0.9	16
36	Low-cost preventive screening using carotid ultrasound in patients with diabetes. Frontiers in Bioscience - Landmark, 2020, 25, 1132-1171.	3.0	29

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37	Paclitaxel-Eluting Devices for Femoropopliteal Disease. Journal of the American College of Cardiology, 2019, 74, 216-218.	2.8	O
38	A low-cost machine learning-based cardiovascular/stroke risk assessment system: integration of conventional factors with image phenotypes. Cardiovascular Diagnosis and Therapy, 2019, 9, 420-430.	1.7	54
39	Rheumatoid Arthritis: Atherosclerosis Imaging and Cardiovascular Risk Assessment Using Machine and Deep Learning–Based Tissue Characterization. Current Atherosclerosis Reports, 2019, 21, 7.	4.8	64
40	A Review on a Deep Learning Perspective in Brain Cancer Classification. Cancers, 2019, 11, 111.	3.7	253
41	iCAST Balloon-Expandable Covered Stent for Iliac Artery Lesions: 3-Year Results from the iCARUS Multicenter Study. Journal of Vascular and Interventional Radiology, 2019, 30, 822-829.e4.	0.5	13
42	A Special Report on Changing Trends in Preventive Stroke/Cardiovascular Risk Assessment Via B-Mode Ultrasonography. Current Atherosclerosis Reports, 2019, 21, 25.	4.8	33
43	Effect of carotid image-based phenotypes on cardiovascular risk calculator: AECRS1.0. Medical and Biological Engineering and Computing, 2019, 57, 1553-1566.	2.8	33
44	The present and future of deep learning in radiology. European Journal of Radiology, 2019, 114, 14-24.	2.6	229
45	Ranking of stroke and cardiovascular risk factors for an optimal risk calculator design: Logistic regression approach. Computers in Biology and Medicine, 2019, 108, 182-195.	7.0	30
46	Balloon-Expandable Vascular Covered Stent in the Treatment of Iliac Artery Occlusive Disease: 9-Month Results from the BOLSTER Multicenter Study. Journal of Vascular and Interventional Radiology, 2019, 30, 836-844.e1.	0.5	13
47	Mortality Not Correlated With PaclitaxelÂExposure. Journal of the American College of Cardiology, 2019, 73, 2550-2563.	2.8	195
48	Ultrasound-based carotid stenosis measurement and risk stratification in diabetic cohort: a deep learning paradigm. Cardiovascular Diagnosis and Therapy, 2019, 9, 439-461.	1.7	35
49	Nonlinear model for the carotid artery disease 10â€year risk prediction by fusing conventional cardiovascular factors to carotid ultrasound image phenotypes: A Japanese diabetes cohort study. Echocardiography, 2019, 36, 345-361.	0.9	36
50	Performance evaluation of 10-year ultrasound image-based stroke/cardiovascular (CV) risk calculator by comparing against ten conventional CV risk calculators: A diabetic study. Computers in Biology and Medicine, 2019, 105, 125-143.	7.0	38
51	Longâ€ŧerm outcomes of carotid artery stenting in patients with a contralateral carotid artery occlusion. Catheterization and Cardiovascular Interventions, 2019, 93, E49-E55.	1.7	4
52	Deep learning fully convolution network for lumen characterization in diabetic patients using carotid ultrasound: a tool for stroke risk. Medical and Biological Engineering and Computing, 2019, 57, 543-564.	2.8	54
53	State-of-the-art review on deep learning in medical imaging. Frontiers in Bioscience - Landmark, 2019, 24, 392-426.	3.0	122
54	Intra- and inter-operator reproducibility of automated cloud-based carotid lumen diameter ultrasound measurement. Indian Heart Journal, 2018, 70, 649-664.	0.5	32

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55	Aspirin and clopidogrel high onâ€treatment platelet reactivity and genetic predictors in peripheral arterial disease. Catheterization and Cardiovascular Interventions, 2018, 91, 1308-1317.	1.7	17
56	Treatment Effect of Drug-Coated Balloons Is Durable to 3 Years in the Femoropopliteal Arteries. Circulation: Cardiovascular Interventions, 2018, 11, e005891.	3.9	166
57	Longâ€term outcomes after reâ€entry device use for recanalization of common iliac artery chronic total occlusions. Catheterization and Cardiovascular Interventions, 2018, 92, 526-532.	1.7	13
58	Midterm Outcomes After Endovascular Intervention for Occluded vs Stenosed External Iliac Arteries. Journal of Endovascular Therapy, 2018, 25, 183-191.	1.5	11
59	Long-term outcomes after carotid artery stenting of patients with prior neck irradiation or surgery. Cardiovascular Revascularization Medicine, 2018, 19, 327-332.	0.8	10
60	Laser Atherectomy Combined With Drug-Coated Balloon Angioplasty Is Associated With Improved 1-Year Outcomes for Treatment of Femoropopliteal In-Stent Restenosis. Journal of Endovascular Therapy, 2018, 25, 81-88.	1.5	40
61	Geometric Total Plaque Area Is an Equally Powerful Phenotype Compared With Carotid Intima-Media Thickness for Stroke Risk Assessment: A Deep Learning Approach. Journal for Vascular Ultrasound, 2018, 42, 162-188.	0.1	17
62	A Survey on Coronary Atherosclerotic Plaque Tissue Characterization in Intravascular Optical Coherence Tomography. Current Atherosclerosis Reports, 2018, 20, 33.	4.8	54
63	Deep learning strategy for accurate carotid intima-media thickness measurement: An ultrasound study on Japanese diabetic cohort. Computers in Biology and Medicine, 2018, 98, 100-117.	7.0	68
64	Morphologic TPA (mTPA) and composite risk score for moderate carotid atherosclerotic plaque is strongly associated with HbA1c in diabetes cohort. Computers in Biology and Medicine, 2018, 101, 128-145.	7.0	25
65	Patency of the Internal Iliac Artery after Placement of Common and External Iliac Artery Stents. Annals of Vascular Surgery, 2017, 38, 184-189.	0.9	4
66	Long-Term Comparative Outcomes of Patients With Peripheral Artery Disease With and Without Concomitant Coronary Artery Disease. American Journal of Cardiology, 2017, 119, 1146-1152.	1.6	28
67	Midterm Outcomes After Infrapopliteal Interventions in Patients With Critical Limb Ischemia Based on the TASC II Classification of Below-the-Knee Arteries. Journal of Endovascular Therapy, 2017, 24, 321-330.	1.5	23
68	Plaque Tissue Morphology-Based Stroke Risk Stratification Using Carotid Ultrasound: A Polling-Based PCA Learning Paradigm. Journal of Medical Systems, 2017, 41, 98.	3.6	61
69	Non-compressible ABIs are associated with an increased risk of major amputation and major adverse cardiovascular events in patients with critical limb ischemia. Vascular Medicine, 2017, 22, 210-217.	1.5	12
70	Stroke Risk Stratification and its Validation using Ultrasonic Echolucent Carotid Wall Plaque Morphology: A Machine Learning Paradigm. Computers in Biology and Medicine, 2017, 80, 77-96.	7.0	63
71	Accurate lumen diameter measurement in curved vessels in carotid ultrasound: an iterative scale-space and spatial transformation approach. Medical and Biological Engineering and Computing, 2017, 55, 1415-1434.	2.8	24
72	Wall-based measurement features provides an improved IVUS coronary artery risk assessment when fused with plaque texture-based features during machine learning paradigm. Computers in Biology and Medicine, 2017, 91, 198-212.	7.0	38

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73	Long-term outcomes in patients with critical limb ischemia and heart failure with preserved or reduced ejection fraction. Vascular Medicine, 2017, 22, 307-315.	1.5	13
74	Extracranial internal carotid artery calcium volume measurement using computer tomography. International Angiology, 2017, 36, 445-461.	0.9	14
75	Relationship between Automated Coronary Calcium Volumes and a Set of Manual Coronary Lumen Volume, Vessel Volume and Atheroma Volume in Japanese Diabetic Cohort. Journal of Clinical and Diagnostic Research JCDR, 2017, 11, TC09-TC14.	0.8	6
76	Numerical analysis of the effect of turbulence transition on the hemodynamic parameters in human coronary arteries. Cardiovascular Diagnosis and Therapy, 2016, 6, 208-220.	1.7	52
77	Ultrasound-Based Automated Carotid Lumen Diameter/Stenosis Measurement and its Validation System. Journal for Vascular Ultrasound, 2016, 40, 120-134.	0.1	7
78	Carotid interâ€adventitial diameter is more strongly related to plaque score than lumen diameter: An automated tool for stroke analysis. Journal of Clinical Ultrasound, 2016, 44, 210-220.	0.8	23
79	Leaving Nothing Behind. JACC: Cardiovascular Interventions, 2016, 9, 1188-1190.	2.9	7
80	Cost-Effectiveness of Endovascular Femoropopliteal Intervention Using Drug-Coated BalloonsÂVersus Standard Percutaneous Transluminal Angioplasty. JACC: Cardiovascular Interventions, 2016, 9, 2343-2352.	2.9	50
81	Accurate cloud-based smart IMT measurement, its validation and stroke risk stratification in carotid ultrasound: A web-based point-of-care tool for multicenter clinical trial. Computers in Biology and Medicine, 2016, 75, 217-234.	7.0	39
82	Two Automated Techniques for Carotid Lumen Diameter Measurement: Regional versus Boundary Approaches. Journal of Medical Systems, 2016, 40, 182.	3.6	19
83	A new method for IVUS-based coronary artery disease risk stratification: A link between coronary & carotid ultrasound plaque burdens. Computer Methods and Programs in Biomedicine, 2016, 124, 161-179.	4.7	43
84	Drug-Eluting Stents in the Superficial Femoral Artery. Circulation, 2016, 133, 1435-1437.	1.6	7
85	Contemporary Management of CriticalÂLimb Ischemia. Journal of the American College of Cardiology, 2016, 67, 1914-1916.	2.8	6
86	PCA-based polling strategy in machine learning framework for coronary artery disease risk assessment in intravascular ultrasound: A link between carotid and coronary grayscale plaque morphology. Computer Methods and Programs in Biomedicine, 2016, 128, 137-158.	4.7	67
87	Drug-eluting stents in the superficial femoral artery: seeing is believing. EuroIntervention, 2016, 12, 1443-1445.	3.2	0
88	Adherence to guideline-recommended therapies among patients with diverse manifestations of vascular disease. Vascular Health and Risk Management, 2015, 11, 185.	2.3	34
89	Association of dual-antiplatelet therapy with reduced major adverse cardiovascular events in patients with symptomatic peripheral arterial disease. Journal of Vascular Surgery, 2015, 62, 157-165.e1.	1.1	62
90	Improved Correlation between Carotid and Coronary Atherosclerosis SYNTAX Score Using Automated Ultrasound Carotid Bulb Plaque IMT Measurement. Ultrasound in Medicine and Biology, 2015, 41, 1247-1262.	1.5	69

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91	Drug-Coated Balloons as the New Standard of Care for Femoropopliteal In-Stent Restenosis. Circulation, 2015, 132, 2198-2200.	1.6	4
92	Drug-Coated Balloon Versus Standard Percutaneous Transluminal Angioplasty for the Treatment of Superficial Femoral and Popliteal Peripheral Artery Disease. Circulation, 2015, 131, 495-502.	1.6	554
93	Laser Atherectomy for Treatment of Femoropopliteal In-Stent Restenosis. Journal of Endovascular Therapy, 2015, 22, 506-513.	1.5	24
94	Angiotensin-converting enzyme inhibitor or angiotensin receptor blocker use is associated with reduced major adverse cardiovascular events among patients with critical limb ischemia. Vascular Medicine, 2015, 20, 237-244.	1.5	56
95	A Review on Carotid Ultrasound Atherosclerotic Tissue Characterization and Stroke Risk Stratification in Machine Learning Framework. Current Atherosclerosis Reports, 2015, 17, 55.	4.8	36
96	Clinical Trials in Peripheral Vascular Disease. Circulation, 2014, 130, 1812-1819.	1.6	40
97	Smoking cessation is associated with decreased mortality and improved amputation-free survival among patients with symptomatic peripheral artery disease. Journal of Vascular Surgery, 2014, 60, 1565-1571.	1.1	149
98	Nitinol Self-Expanding Stents vs. Balloon Angioplasty for Very Long Femoropopliteal Lesions. Journal of Endovascular Therapy, 2014, 21, 34-43.	1.5	64
99	Association Between Statin Medications and Mortality, Major Adverse Cardiovascular Event, and Amputation-Free Survival in Patients With Critical Limb Ischemia. Journal of the American College of Cardiology, 2014, 63, 682-690.	2.8	142
100	Endovascular Therapy is Effective Treatment for Focal Stenoses in Failing Infrapopliteal Vein Grafts. Annals of Vascular Surgery, 2014, 28, 1823-1831.	0.9	9
101	Drug-Coated Balloons for InfrapoplitealÂDisease. Journal of the American College of Cardiology, 2014, 64, 1577-1579.	2.8	14
102	Endovascular recanalization of infrapopliteal occlusions in patients with critical limb ischemia. Journal of Vascular Surgery, 2014, 59, 1300-1307.	1.1	43
103	Reply. Journal of Vascular Surgery, 2014, 60, 1120-1121.	1.1	0
104	Association of elevated fasting glucose with lower patency and increased major adverse limb events among patients with diabetes undergoing infrapopliteal balloon angioplasty. Vascular Medicine, 2014, 19, 307-314.	1.5	72
105	Outcomes of covered versus bare-metal balloon-expandable stents for aortoiliac occlusive disease. Journal of Vascular Surgery, 2014, 60, 337-344.	1.1	67
106	Recanalization of infrainguinal chronic total occlusions with the crosser system: results of the PATRIOT trial. Journal of Invasive Cardiology, 2014, 26, 497-504.	0.4	18
107	Stents for Femoropopliteal Disease. Journal of the American College of Cardiology, 2013, 62, 1328-1329.	2.8	4
108	Feasibility of FiberNet $\hat{A}^{@}$ embolic protection system in patients undergoing angioplasty for atherosclerotic renal artery stenosis. Catheterization and Cardiovascular Interventions, 2012, 79, 430-436.	1.7	6

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109	Excimer laser with adjunctive balloon angioplasty and heparinâ€coated selfâ€expanding stent grafts for the treatment of femoropopliteal artery inâ€stent restenosis. Catheterization and Cardiovascular Interventions, 2012, 80, 852-859.	1.7	64
110	Nitinol Stent Implantation Versus Balloon Angioplasty for Lesions in the Superficial Femoral Artery and Proximal Popliteal Artery. Circulation: Cardiovascular Interventions, 2010, 3, 267-276.	3.9	586
111	The Role for Cryoplasty in the Treatment of Infrainguinal Artery Disease:Case Studies. Journal of Endovascular Therapy, 2009, 16, II116-II128.	1.5	14
112	Usefulness of optical coherent reflectometry with guided radiofrequency energy to treat chronic total occlusions in peripheral arteries (the GRIP trial). American Journal of Cardiology, 2004, 94, 1081-1084.	1.6	14
113	The Nitinol SMART Stent vs Wallstent for Suboptimal Iliac Artery Angioplasty: CRISP-US Trial Results. Journal of Vascular and Interventional Radiology, 2004, 15, 911-918.	0.5	92
114	Excimer Laser-Assisted Recanalization of Long, Chronic Superficial Femoral Artery Occlusions. Journal of Endovascular Therapy, 2001, 8, 156-166.	1.5	136
115	Excimer Laser-Assisted Recanalization of Long, Chronic Superficial Femoral Artery Occlusions. Journal of Endovascular Therapy, 2001, 8, 156-166.	1.5	109
116	Intra- and Inter-operator Reproducibility Analysis of Automated Cloud-based Carotid Intima Media Thickness Ultrasound Measurement. Journal of Clinical and Diagnostic Research JCDR, 0, , .	0.8	8