

John R Laird

List of Publications by Citations

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106
papers

3,883
citations

31
h-index

58
g-index

116
ext. papers

4,896
ext. citations

4
avg, IF

5.28
L-index

#	Paper	IF	Citations
106	Nitinol stent implantation versus balloon angioplasty for lesions in the superficial femoral artery and proximal popliteal artery: twelve-month results from the RESILIENT randomized trial. <i>Circulation: Cardiovascular Interventions</i> , 2010 , 3, 267-76	6	488
105	Drug-coated balloon versus standard percutaneous transluminal angioplasty for the treatment of superficial femoral and popliteal peripheral artery disease: 12-month results from the IN.PACT SFA randomized trial. <i>Circulation</i> , 2015 , 131, 495-502	16.7	410
104	The present and future of deep learning in radiology. <i>European Journal of Radiology</i> , 2019 , 114, 14-24	4.7	143
103	Mortality Not Correlated With Paclitaxel Exposure: An Independent Patient-Level Meta-Analysis of a Drug-Coated Balloon. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 2550-2563	15.1	132
102	Excimer laser-assisted recanalization of long, chronic superficial femoral artery occlusions. <i>Journal of Endovascular Therapy</i> , 2001 , 8, 156-66	2.5	125
101	Treatment Effect of Drug-Coated Balloons Is Durable to 3 Years in the Femoropopliteal Arteries: Long-Term Results of the IN.PACT SFA Randomized Trial. <i>Circulation: Cardiovascular Interventions</i> , 2018 , 11, e005891	6	114
100	A Review on a Deep Learning Perspective in Brain Cancer Classification. <i>Cancers</i> , 2019 , 11,	6.6	112
99	Association between statin medications and mortality, major adverse cardiovascular event, and amputation-free survival in patients with critical limb ischemia. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 682-690	15.1	112
98	Smoking cessation is associated with decreased mortality and improved amputation-free survival among patients with symptomatic peripheral artery disease. <i>Journal of Vascular Surgery</i> , 2014 , 60, 1565-71	3.5	104
97	State-of-the-art review on deep learning in medical imaging. <i>Frontiers in Bioscience - Landmark</i> , 2019 , 24, 392-426	2.8	84
96	The Nitinol SMART stent vs Wallstent for suboptimal iliac artery angioplasty: CRISP-US trial results. <i>Journal of Vascular and Interventional Radiology</i> , 2004 , 15, 911-8	2.4	81
95	Outcomes of covered versus bare-metal balloon-expandable stents for aortoiliac occlusive disease. <i>Journal of Vascular Surgery</i> , 2014 , 60, 337-43	3.5	58
94	Improved correlation between carotid and coronary atherosclerosis SYNTAX score using automated ultrasound carotid bulb plaque IMT measurement. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1247-62	3.5	56
93	Excimer Laser-Assisted Recanalization of Long, Chronic Superficial Femoral Artery Occlusions. <i>Journal of Endovascular Therapy</i> , 2001 , 8, 156-166	2.5	56
92	Association of dual-antiplatelet therapy with reduced major adverse cardiovascular events in patients with symptomatic peripheral arterial disease. <i>Journal of Vascular Surgery</i> , 2015 , 62, 157-165.e1	3.5	55
91	Excimer laser with adjunctive balloon angioplasty and heparin-coated self-expanding stent grafts for the treatment of femoropopliteal artery in-stent restenosis: twelve-month results from the SALVAGE study. <i>Catheterization and Cardiovascular Interventions</i> , 2012 , 80, 852-9	2.7	55
90	Association of elevated fasting glucose with lower patency and increased major adverse limb events among patients with diabetes undergoing infrapopliteal balloon angioplasty. <i>Vascular Medicine</i> , 2014 , 19, 307-314	3.3	53

89	Nitinol self-expanding stents vs. balloon angioplasty for very long femoropopliteal lesions. <i>Journal of Endovascular Therapy</i> , 2014 , 21, 34-43	2.5	50
88	Deep learning strategy for accurate carotid intima-media thickness measurement: An ultrasound study on Japanese diabetic cohort. <i>Computers in Biology and Medicine</i> , 2018 , 98, 100-117	7	48
87	Plaque Tissue Morphology-Based Stroke Risk Stratification Using Carotid Ultrasound: A Polling-Based PCA Learning Paradigm. <i>Journal of Medical Systems</i> , 2017 , 41, 98	5.1	44
86	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. <i>Computers in Biology and Medicine</i> , 2020 , 124, 103960	7	44
85	Stroke Risk Stratification and its Validation using Ultrasonic Echolucent Carotid Wall Plaque Morphology: A Machine Learning Paradigm. <i>Computers in Biology and Medicine</i> , 2017 , 80, 77-96	7	42
84	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. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 128, 137-58	6.9	42
83	Angiotensin-converting enzyme inhibitor or angiotensin receptor blocker use is associated with reduced major adverse cardiovascular events among patients with critical limb ischemia. <i>Vascular Medicine</i> , 2015 , 20, 237-44	3.3	40
82	A Survey on Coronary Atherosclerotic Plaque Tissue Characterization in Intravascular Optical Coherence Tomography. <i>Current Atherosclerosis Reports</i> , 2018 , 20, 33	6	38
81	Rheumatoid Arthritis: Atherosclerosis Imaging and Cardiovascular Risk Assessment Using Machine and Deep Learning-Based Tissue Characterization. <i>Current Atherosclerosis Reports</i> , 2019 , 21, 7	6	37
80	Deep learning fully convolution network for lumen characterization in diabetic patients using carotid ultrasound: a tool for stroke risk. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 543-564	3.1	37
79	A low-cost machine learning-based cardiovascular/stroke risk assessment system: integration of conventional factors with image phenotypes. <i>Cardiovascular Diagnosis and Therapy</i> , 2019 , 9, 420-430	2.6	35
78	Endovascular recanalization of infrapopliteal occlusions in patients with critical limb ischemia. <i>Journal of Vascular Surgery</i> , 2014 , 59, 1300-7	3.5	35
77	Cost-Effectiveness of Endovascular Femoropopliteal Intervention Using Drug-Coated Balloons Versus Standard Percutaneous Transluminal Angioplasty: Results From the IN.PACT SFA II Trial. <i>JACC: Cardiovascular Interventions</i> , 2016 , 9, 2343-2352	5	33
76	A new method for IVUS-based coronary artery disease risk stratification: A link between coronary & carotid ultrasound plaque burdens. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 124, 161-79	6.9	32
75	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. <i>Computers in Biology and Medicine</i> , 2016 , 75, 217-34	7	31
74	Clinical trials in peripheral vascular disease: pipeline and trial designs: an evaluation of the ClinicalTrials.gov database. <i>Circulation</i> , 2014 , 130, 1812-9	16.7	31
73	Cardiovascular/stroke risk predictive calculators: a comparison between statistical and machine learning models. <i>Cardiovascular Diagnosis and Therapy</i> , 2020 , 10, 919-938	2.6	31
72	A Review on Carotid Ultrasound Atherosclerotic Tissue Characterization and Stroke Risk Stratification in Machine Learning Framework. <i>Current Atherosclerosis Reports</i> , 2015 , 17, 55	6	30

71	Laser Atherectomy Combined With Drug-Coated Balloon Angioplasty Is Associated With Improved 1-Year Outcomes for Treatment of Femoropopliteal In-Stent Restenosis. <i>Journal of Endovascular Therapy</i> , 2018 , 25, 81-88	2.5	30
70	Global perspective on carotid intima-media thickness and plaque: should the current measurement guidelines be revisited?. <i>International Angiology</i> , 2019 , 38, 451-465	2.2	29
69	Performance evaluation of 10-year ultrasound image-based stroke/cardiovascular (CV) risk calculator by comparing against ten conventional CV risk calculators: A diabetic study. <i>Computers in Biology and Medicine</i> , 2019 , 105, 125-143	7	29
68	Nonlinear model for the carotid artery disease 10-year risk prediction by fusing conventional cardiovascular factors to carotid ultrasound image phenotypes: A Japanese diabetes cohort study. <i>Echocardiography</i> , 2019 , 36, 345-361	1.5	28
67	Effect of carotid image-based phenotypes on cardiovascular risk calculator: AECRS1.0. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 1553-1566	3.1	27
66	A Special Report on Changing Trends in Preventive Stroke/Cardiovascular Risk Assessment Via B-Mode Ultrasonography. <i>Current Atherosclerosis Reports</i> , 2019 , 21, 25	6	26
65	Intra- and inter-operator reproducibility of automated cloud-based carotid lumen diameter ultrasound measurement. <i>Indian Heart Journal</i> , 2018 , 70, 649-664	1.6	26
64	Adherence to guideline-recommended therapies among patients with diverse manifestations of vascular disease. <i>Vascular Health and Risk Management</i> , 2015 , 11, 185-92	4.4	26
63	3-D optimized classification and characterization artificial intelligence paradigm for cardiovascular/stroke risk stratification using carotid ultrasound-based delineated plaque: Atheromatic2.0. <i>Computers in Biology and Medicine</i> , 2020 , 125, 103958	7	26
62	Numerical analysis of the effect of turbulence transition on the hemodynamic parameters in human coronary arteries. <i>Cardiovascular Diagnosis and Therapy</i> , 2016 , 6, 208-20	2.6	26
61	Ultrasound-based carotid stenosis measurement and risk stratification in diabetic cohort: a deep learning paradigm. <i>Cardiovascular Diagnosis and Therapy</i> , 2019 , 9, 439-461	2.6	26
60	Wall-based measurement features provides an improved IVUS coronary artery risk assessment when fused with plaque texture-based features during machine learning paradigm. <i>Computers in Biology and Medicine</i> , 2017 , 91, 198-212	7	25
59	Morphologic TPA (mTPA) and composite risk score for moderate carotid atherosclerotic plaque is strongly associated with HbA1c in diabetes cohort. <i>Computers in Biology and Medicine</i> , 2018 , 101, 128-145	7	24
58	Long-Term Comparative Outcomes of Patients With Peripheral Artery Disease With and Without Concomitant Coronary Artery Disease. <i>American Journal of Cardiology</i> , 2017 , 119, 1146-1152	3	23
57	Ranking of stroke and cardiovascular risk factors for an optimal risk calculator design: Logistic regression approach. <i>Computers in Biology and Medicine</i> , 2019 , 108, 182-195	7	22
56	Carotid inter-adventitial diameter is more strongly related to plaque score than lumen diameter: An automated tool for stroke analysis. <i>Journal of Clinical Ultrasound</i> , 2016 , 44, 210-20	1	21
55	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. <i>International Journal of Cardiovascular Imaging</i> , 2021 , 37, 1171-1187	2.5	21
54	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. <i>Computers in Biology and Medicine</i> , 2020 , 123, 103847	7	20

53	Accurate lumen diameter measurement in curved vessels in carotid ultrasound: an iterative scale-space and spatial transformation approach. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 1415-1434	3.1	19
52	Low-cost preventive screening using carotid ultrasound in patients with diabetes. <i>Frontiers in Bioscience - Landmark</i> , 2020 , 25, 1132-1171	2.8	19
51	Laser Atherectomy for Treatment of Femoropopliteal In-Stent Restenosis. <i>Journal of Endovascular Therapy</i> , 2015 , 22, 506-13	2.5	18
50	Midterm Outcomes After Infrapopliteal Interventions in Patients With Critical Limb Ischemia Based on the TASC II Classification of Below-the-Knee Arteries. <i>Journal of Endovascular Therapy</i> , 2017 , 24, 321-330	3.5	17
49	Cardiovascular/stroke risk prevention: A new machine learning framework integrating carotid ultrasound image-based phenotypes and its harmonics with conventional risk factors. <i>Indian Heart Journal</i> , 2020 , 72, 258-264	1.6	17
48	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. <i>Medical and Biological Engineering and Computing</i> , 2021 , 59, 511-533	3.1	17
47	Two Automated Techniques for Carotid Lumen Diameter Measurement: Regional versus Boundary Approaches. <i>Journal of Medical Systems</i> , 2016 , 40, 182	5.1	16
46	COVLIAS 1.0: Lung Segmentation in COVID-19 Computed Tomography Scans Using Hybrid Deep Learning Artificial Intelligence Models. <i>Diagnostics</i> , 2021 , 11,	3.8	16
45	Recanalization of infrainguinal chronic total occlusions with the crosser system: results of the PATRIOT trial. <i>Journal of Invasive Cardiology</i> , 2014 , 26, 497-504	0.7	16
44	Morphological Carotid Plaque Area Is Associated With Glomerular Filtration Rate: A Study of South Asian Indian Patients With Diabetes and Chronic Kidney Disease. <i>Angiology</i> , 2020 , 71, 520-535	2.1	15
43	Artificial intelligence framework for predictive cardiovascular and stroke risk assessment models: A narrative review of integrated approaches using carotid ultrasound. <i>Computers in Biology and Medicine</i> , 2020 , 126, 104043	7	15
42	Does the Carotid Bulb Offer a Better 10-Year CVD/Stroke Risk Assessment Compared to the Common Carotid Artery? A 1516 Ultrasound Scan Study. <i>Angiology</i> , 2020 , 71, 920-933	2.1	14
41	The role for cryoplasty in the treatment of infrainguinal artery disease: case studies. <i>Journal of Endovascular Therapy</i> , 2009 , 16, 1116-28	2.5	13
40	Extracranial internal carotid artery calcium volume measurement using computer tomography. <i>International Angiology</i> , 2017 , 36, 445-461	2.2	12
39	Usefulness of optical coherent reflectometry with guided radiofrequency energy to treat chronic total occlusions in peripheral arteries (the GRIP trial). <i>American Journal of Cardiology</i> , 2004 , 94, 1081-4	3	12
38	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. <i>International Angiology</i> , 2020 , 39, 290-306	2.2	12
37	Multimodality carotid plaque tissue characterization and classification in the artificial intelligence paradigm: a narrative review for stroke application. <i>Annals of Translational Medicine</i> , 2021 , 9, 1206	3.2	12
36	Long-term outcomes after re-entry device use for recanalization of common iliac artery chronic total occlusions. <i>Catheterization and Cardiovascular Interventions</i> , 2018 , 92, 526-532	2.7	11

35	Geometric Total Plaque Area Is an Equally Powerful Phenotype Compared With Carotid Intima-Media Thickness for Stroke Risk Assessment: A Deep Learning Approach. <i>Journal for Vascular Ultrasound</i> , 2018 , 42, 162-188	0.1	11
34	iCAST Balloon-Expandable Covered Stent for Iliac Artery Lesions: 3-Year Results from the iCARUS Multicenter Study. <i>Journal of Vascular and Interventional Radiology</i> , 2019 , 30, 822-829.e4	2.4	10
33	Non-compressible ABIs are associated with an increased risk of major amputation and major adverse cardiovascular events in patients with critical limb ischemia. <i>Vascular Medicine</i> , 2017 , 22, 210-217	3.3	9
32	Long-term outcomes in patients with critical limb ischemia and heart failure with preserved or reduced ejection fraction. <i>Vascular Medicine</i> , 2017 , 22, 307-315	3.3	9
31	Laser atherectomy and drug-coated balloons for the treatment of femoropopliteal in-stent restenosis: 2-Year outcomes. <i>Catheterization and Cardiovascular Interventions</i> , 2020 , 95, 439-446	2.7	9
30	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-12	5.2	9
29	Midterm Outcomes After Endovascular Intervention for Occluded vs Stenosed External Iliac Arteries. <i>Journal of Endovascular Therapy</i> , 2018 , 25, 183-191	2.5	8
28	Endovascular therapy is effective treatment for focal stenoses in failing infrapopliteal vein grafts. <i>Annals of Vascular Surgery</i> , 2014 , 28, 1823-31	1.7	8
27	Understanding the bias in machine learning systems for cardiovascular disease risk assessment: The first of its kind review.. <i>Computers in Biology and Medicine</i> , 2022 , 142, 105204	7	8
26	Intra- and Inter-operator Reproducibility Analysis of Automated Cloud-based Carotid Intima Media Thickness Ultrasound Measurement. <i>Journal of Clinical and Diagnostic Research JCDR</i> ,	0	8
25	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. <i>Cardiovascular Diagnosis and Therapy</i> , 2020 , 10, 939-954	2.6	8
24	Balloon-Expandable Vascular Covered Stent in the Treatment of Iliac Artery Occlusive Disease: 9-Month Results from the BOLSTER Multicenter Study. <i>Journal of Vascular and Interventional Radiology</i> , 2019 , 30, 836-844.e1	2.4	7
23	Aspirin and clopidogrel high on-treatment platelet reactivity and genetic predictors in peripheral arterial disease. <i>Catheterization and Cardiovascular Interventions</i> , 2018 , 91, 1308-1317	2.7	7
22	Unseen Artificial Intelligence-Deep Learning Paradigm for Segmentation of Low Atherosclerotic Plaque in Carotid Ultrasound: A Multicenter Cardiovascular Study.. <i>Diagnostics</i> , 2021 , 11,	3.8	7
21	Cardiovascular risk assessment in patients with rheumatoid arthritis using carotid ultrasound B-mode imaging. <i>Rheumatology International</i> , 2020 , 40, 1921-1939	3.6	7
20	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. <i>International Angiology</i> , 2021 , 40, 150-164	2.2	7
19	Ultrasound-Based Automated Carotid Lumen Diameter/Stenosis Measurement and its Validation System. <i>Journal for Vascular Ultrasound</i> , 2016 , 40, 120-134	0.1	7
18	Long-term outcomes after carotid artery stenting of patients with prior neck irradiation or surgery. <i>Cardiovascular Revascularization Medicine</i> , 2018 , 19, 327-332	1.6	6

17	Inter-Variability Study of COVLIAS 1.0: Hybrid Deep Learning Models for COVID-19 Lung Segmentation in Computed Tomography. <i>Diagnostics</i> , 2021 , 11,	3.8	6
16	Development and validation of a predictive score for anterograde crossing of infrapopliteal chronic total occlusions: (The Infrapop-CTO Score). <i>Catheterization and Cardiovascular Interventions</i> , 2020 , 95, 748-755	2.7	6
15	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. <i>International Journal of Cardiovascular Imaging</i> , 2021 , 37, 3145-3156	2.5	6
14	A Review on Joint Carotid Intima-Media Thickness and Plaque Area Measurement in Ultrasound for Cardiovascular/Stroke Risk Monitoring: Artificial Intelligence Framework. <i>Journal of Digital Imaging</i> , 2021 , 34, 581-604	5.3	6
13	Relationship between Automated Coronary Calcium Volumes and a Set of Manual Coronary Lumen Volume, Vessel Volume and Atheroma Volume in Japanese Diabetic Cohort. <i>Journal of Clinical and Diagnostic Research JCDR</i> , 2017 , 11, TC09-TC14	0	5
12	Feasibility of FiberNet™ embolic protection system in patients undergoing angioplasty for atherosclerotic renal artery stenosis. <i>Catheterization and Cardiovascular Interventions</i> , 2012 , 79, 430-6	2.7	5
11	Long-term outcomes of carotid artery stenting in patients with a contralateral carotid artery occlusion. <i>Catheterization and Cardiovascular Interventions</i> , 2019 , 93, E49-E55	2.7	4
10	COVLIAS 1.0 vs. MedSeg: Artificial Intelligence-Based Comparative Study for Automated COVID-19 Computed Tomography Lung Segmentation in Italian and Croatian Cohorts.. <i>Diagnostics</i> , 2021 , 11,	3.8	4
9	Performance of the Wingman catheter in peripheral artery chronic total occlusions: Short-term results from the international Wing-It trial. <i>Catheterization and Cardiovascular Interventions</i> , 2021 , 97, 310-316	2.7	3
8	Patency of the Internal Iliac Artery after Placement of Common and External Iliac Artery Stents. <i>Annals of Vascular Surgery</i> , 2017 , 38, 184-189	1.7	2
7	Cardiovascular/Stroke Risk Stratification in Parkinson's Disease Patients Using Atherosclerosis Pathway and Artificial Intelligence Paradigm: A Systematic Review.. <i>Metabolites</i> , 2022 , 12,	5.6	2
6	Cardiovascular disease detection using machine learning and carotid/femoral arterial imaging frameworks in rheumatoid arthritis patients.. <i>Rheumatology International</i> , 2022 , 42, 215	3.6	1
5	Cardiovascular Risk Stratification in Diabetic Retinopathy via Atherosclerotic Pathway in COVID-19/non-COVID-19 Frameworks using Artificial Intelligence Paradigm: A Narrative Review. <i>Diagnostics</i> , 2022 , 12, 1234	3.8	1
4	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. <i>Computers in Biology and Medicine</i> , 2022 , 146, 105571	7	1
3	COVLIAS 1.0 Lesion vs. MedSeg: An Artificial Intelligence Framework for Automated Lesion Segmentation in COVID-19 Lung Computed Tomography Scans. <i>Diagnostics</i> , 2022 , 12, 1283	3.8	1
2	Cardiovascular/Stroke Risk Assessment in Patients with Erectile Dysfunction: Role of Carotid Wall Arterial Imaging and Plaque Tissue Characterization Using Artificial Intelligence Paradigm: A Narrative Review. <i>Diagnostics</i> , 2022 , 12, 1249	3.8	0
1	Reply: To PMID 24725909. <i>Journal of Vascular Surgery</i> , 2014 , 60, 1120-1	3.5	