

Ahmed Tawakol

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

7,676
citations

40
h-index

87
g-index

131
ext. papers

9,116
ext. citations

6.9
avg, IF

5.48
L-index

#	Paper	IF	Citations
110	In vivo 18F-fluorodeoxyglucose positron emission tomography imaging provides a noninvasive measure of carotid plaque inflammation in patients. <i>Journal of the American College of Cardiology</i> , 2006 , 48, 1818-24	15.1	724
109	Hyperhomocyst(e)inemia is associated with impaired endothelium-dependent vasodilation in humans. <i>Circulation</i> , 1997 , 95, 1119-21	16.7	455
108	Safety and efficacy of dalcetrapib on atherosclerotic disease using novel non-invasive multimodality imaging (dal-PLAQUE): a randomised clinical trial. <i>Lancet, The</i> , 2011 , 378, 1547-59	40	407
107	Sildenafil improves exercise capacity and quality of life in patients with systolic heart failure and secondary pulmonary hypertension. <i>Circulation</i> , 2007 , 116, 1555-62	16.7	394
106	Arterial inflammation in patients with HIV. <i>JAMA - Journal of the American Medical Association</i> , 2012 , 308, 379-86	27.4	328
105	Intensification of statin therapy results in a rapid reduction in atherosclerotic inflammation: results of a multicenter fluorodeoxyglucose-positron emission tomography/computed tomography feasibility study. <i>Journal of the American College of Cardiology</i> , 2013 , 62, 909-17	15.1	297
104	Relation between resting amygdalar activity and cardiovascular events: a longitudinal and cohort study. <i>Lancet, The</i> , 2017 , 389, 834-845	40	269
103	Estradiol therapy combined with progesterone and endothelium-dependent vasodilation in postmenopausal women. <i>Circulation</i> , 1998 , 98, 1158-63	16.7	248
102	PET/MRI of inflammation in myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2012 , 59, 153-63	15.1	245
101	Feasibility of FDG imaging of the coronary arteries: comparison between acute coronary syndrome and stable angina. <i>JACC: Cardiovascular Imaging</i> , 2010 , 3, 388-97	8.4	225
100	Noninvasive in vivo measurement of vascular inflammation with F-18 fluorodeoxyglucose positron emission tomography. <i>Journal of Nuclear Cardiology</i> , 2005 , 12, 294-301	2.1	225
99	Measurement of arterial activity on routine FDG PET/CT images improves prediction of risk of future CV events. <i>JACC: Cardiovascular Imaging</i> , 2013 , 6, 1250-9	8.4	206
98	Cardiac macrophages promote diastolic dysfunction. <i>Journal of Experimental Medicine</i> , 2018 , 215, 423-440	16.6	182
97	Effects of the high-density lipoprotein mimetic agent CER-001 on coronary atherosclerosis in patients with acute coronary syndromes: a randomized trial. <i>European Heart Journal</i> , 2014 , 35, 3277-86	9.5	176
96	Imaging Atherosclerosis. <i>Circulation Research</i> , 2016 , 118, 750-69	15.7	160
95	Imaging of the aortic valve using fluorodeoxyglucose positron emission tomography increased valvular fluorodeoxyglucose uptake in aortic stenosis. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 2507-15	15.1	156
94	Effects of statin therapy on coronary artery plaque volume and high-risk plaque morphology in HIV-infected patients with subclinical atherosclerosis: a randomised, double-blind, placebo-controlled trial. <i>Lancet HIV,the</i> , 2015 , 2, e52-63	7.8	154

93	Splenic metabolic activity predicts risk of future cardiovascular events: demonstration of a cardioplenic axis in humans. <i>JACC: Cardiovascular Imaging</i> , 2015 , 8, 121-30	8.4	146
92	2-deoxy-2-[18F]fluoro-D-mannose positron emission tomography imaging in atherosclerosis. <i>Nature Medicine</i> , 2014 , 20, 215-9	50.5	128
91	Distribution of inflammation within carotid atherosclerotic plaques with high-risk morphological features: a comparison between positron emission tomography activity, plaque morphology, and histopathology. <i>Circulation: Cardiovascular Imaging</i> , 2012 , 5, 69-77	3.9	123
90	HIF-1 α and PFKFB3 Mediate a Tight Relationship Between Proinflammatory Activation and Anerobic Metabolism in Atherosclerotic Macrophages. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 1463-71	9.4	111
89	Focal arterial inflammation precedes subsequent calcification in the same location: a longitudinal FDG-PET/CT study. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 747-54	3.9	105
88	Effects of p38 mitogen-activated protein kinase inhibition on vascular and systemic inflammation in patients with atherosclerosis. <i>JACC: Cardiovascular Imaging</i> , 2012 , 5, 911-22	8.4	105
87	High-dose atorvastatin reduces periodontal inflammation: a novel pleiotropic effect of statins. <i>Journal of the American College of Cardiology</i> , 2013 , 62, 2382-2391	15.1	85
86	Homocysteine impairs coronary microvascular dilator function in humans. <i>Journal of the American College of Cardiology</i> , 2002 , 40, 1051-58	15.1	79
85	Nonpharmacological lipoprotein apheresis reduces arterial inflammation in familial hypercholesterolemia. <i>Journal of the American College of Cardiology</i> , 2014 , 64, 1418-26	15.1	74
84	Association between cardiovascular risk profiles and the presence and extent of different types of coronary atherosclerotic plaque as detected by multidetector computed tomography. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 568-74	9.4	69
83	Effect of treatment for 12 weeks with rilapladi, a lipoprotein-associated phospholipase A2 inhibitor, on arterial inflammation as assessed with 18F-fluorodeoxyglucose-positron emission tomography imaging. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 86-8	15.1	65
82	Imaging atherosclerosis with positron emission tomography. <i>European Heart Journal</i> , 2016 , 37, 2974-2980	15.1	62
81	Stress-Associated Neurobiological Pathway Linking Socioeconomic Disparities to Cardiovascular Disease. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 3243-3255	15.1	55
80	The effect of BMS-582949, a P38 mitogen-activated protein kinase (P38 MAPK) inhibitor on arterial inflammation: a multicenter FDG-PET trial. <i>Atherosclerosis</i> , 2015 , 240, 490-6	3.1	54
79	Imaging Macrophage and Hematopoietic Progenitor Proliferation in Atherosclerosis. <i>Circulation Research</i> , 2015 , 117, 835-45	15.7	52
78	Relationship of serum inflammatory biomarkers with plaque inflammation assessed by FDG PET/CT: the dal-PLAQUE study. <i>JACC: Cardiovascular Imaging</i> , 2013 , 6, 1087-1094	8.4	52
77	Increased arterial inflammation relates to high-risk coronary plaque morphology in HIV-infected patients. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2014 , 66, 164-71	3.1	51
76	Effects of Antiretroviral Therapy on Immune Function and Arterial Inflammation in Treatment-Naive Patients With Human Immunodeficiency Virus Infection. <i>JAMA Cardiology</i> , 2016 , 1, 474-80	16.2	47

75	Early aortic valve inflammation precedes calcification: a longitudinal FDG-PET/CT study. <i>Atherosclerosis</i> , 2015 , 238, 165-72	3.1	46
74	A neurobiological mechanism linking transportation noise to cardiovascular disease in humans. <i>European Heart Journal</i> , 2020 , 41, 772-782	9.5	46
73	Unraveling Vascular Inflammation: From Immunology to Imaging. <i>Journal of the American College of Cardiology</i> , 2017 , 70, 1403-1412	15.1	45
72	Positron emission tomography measurement of periodontal 18F-fluorodeoxyglucose uptake is associated with histologically determined carotid plaque inflammation. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 971-6	15.1	44
71	Psychosocial Stress and Cardiovascular Disease. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2019 , 21, 23	2.1	41
70	Association of Arterial and Lymph Node Inflammation With Distinct Inflammatory Pathways in Human Immunodeficiency Virus Infection. <i>JAMA Cardiology</i> , 2017 , 2, 163-171	16.2	37
69	A phase 2 randomized, double-blind, placebo-controlled study of the effect of VIA-2291, a 5-lipoxygenase inhibitor, on vascular inflammation in patients after an acute coronary syndrome. <i>Atherosclerosis</i> , 2015 , 240, 53-60	3.1	37
68	High-dose folic acid acutely improves coronary vasodilator function in patients with coronary artery disease. <i>Journal of the American College of Cardiology</i> , 2005 , 45, 1580-4	15.1	37
67	New opportunities for identification and reduction of coronary risk: treatment of vulnerable patients, arteries, and plaques. <i>Journal of the American College of Cardiology</i> , 2006 , 47, C2-6	15.1	37
66	Coronary Plaque Morphology and the Anti-Inflammatory Impact of Atorvastatin: A Multicenter 18F-Fluorodeoxyglucose Positron Emission Tomographic/Computed Tomographic Study. <i>Circulation: Cardiovascular Imaging</i> , 2016 , 9,	3.9	37
65	IL-1 β Inhibition Reduces Atherosclerotic Inflammation in HIV Infection. <i>Journal of the American College of Cardiology</i> , 2018 , 72, 2809-2811	15.1	37
64	Relationship Between Measures of Adiposity, Arterial Inflammation, and Subsequent Cardiovascular Events. <i>Circulation: Cardiovascular Imaging</i> , 2016 , 9, e004043	3.9	36
63	Contrast-Enhanced Ultrasound: A Novel Noninvasive, Nonionizing Method for the Detection of Brown Adipose Tissue in Humans. <i>Journal of the American Society of Echocardiography</i> , 2015 , 28, 1247-54	5.8	34
62	Does Vascular Calcification Accelerate Inflammation?: A Substudy of the dal-PLAQUE Trial. <i>Journal of the American College of Cardiology</i> , 2016 , 67, 69-78	15.1	34
61	Comparison of exercise treadmill testing with cardiac computed tomography angiography among patients presenting to the emergency room with chest pain: the Rule Out Myocardial Infarction Using Computer-Assisted Tomography (ROMICAT) study. <i>Circulation: Cardiovascular Imaging</i> , 2012 , 5, 233-42	3.9	33
60	Single resting hsTnT level predicts abnormal myocardial stress test in acute chest pain patients with normal initial standard troponin. <i>JACC: Cardiovascular Imaging</i> , 2013 , 6, 72-82	8.4	32
59	Safety and Impact of Low-dose Methotrexate on Endothelial Function and Inflammation in Individuals With Treated Human Immunodeficiency Virus: AIDS Clinical Trials Group Study A5314. <i>Clinical Infectious Diseases</i> , 2019 , 68, 1877-1886	11.6	32
58	18F-fluorodeoxyglucose positron emission tomography/computed tomography enables the detection of recurrent same-site deep vein thrombosis by illuminating recently formed, neutrophil-rich thrombus. <i>Circulation</i> , 2014 , 130, 1044-52	16.7	31

57	Chronic Stress-Related Neural Activity Associates With Subclinical Cardiovascular Disease in Psoriasis: A Prospective Cohort Study. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 465-477	8.4	30
56	Imaging of coronary inflammation with FDG-PET: feasibility and clinical hurdles. <i>Current Cardiology Reports</i> , 2011 , 13, 138-44	4.2	28
55	Atherosclerosis: Recent trials, new targets and future directions. <i>International Journal of Cardiology</i> , 2015 , 192, 72-81	3.2	25
54	Direct effect of ethanol on human vascular function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H2468-73	5.2	24
53	Supraclavicular Brown Adipose Tissue 18F-FDG Uptake and Cardiovascular Disease. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 1221-5	8.9	23
52	Arterial inflammation in bronchial asthma. <i>Journal of Nuclear Cardiology</i> , 2013 , 20, 385-95	2.1	23
51	Evidence of reduced resting blood flow in viable myocardial regions with chronic asynergy. <i>Journal of the American College of Cardiology</i> , 2000 , 36, 2146-53	15.1	23
50	Arterial 18F-FDG uptake in rheumatoid arthritis correlates with synovial activity. <i>JACC: Cardiovascular Imaging</i> , 2014 , 7, 959-60	8.4	21
49	Metabolic and Molecular Imaging of Atherosclerosis and Venous Thromboembolism. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 871-877	8.9	20
48	Nonobstructive Coronary Artery Disease by Coronary CT Angiography Improves Risk Stratification and Allocation of Statin Therapy. <i>JACC: Cardiovascular Imaging</i> , 2017 , 10, 1031-1038	8.4	20
47	A comprehensive electrocardiogram-gated 64-slice multidetector computed tomography imaging protocol to visualize the coronary arteries, thoracic aorta, and pulmonary vasculature in a single breath hold. <i>Journal of Computer Assisted Tomography</i> , 2009 , 33, 225-32	2.2	20
46	Diagnostic performance of 18F-FDG PET/contrast-enhanced CT versus contrast-enhanced CT alone for post-treatment detection of ovarian malignancy. <i>Nuclear Medicine Communications</i> , 2016 , 37, 453-60	1.6	20
45	Predictors of change in carotid atherosclerotic plaque inflammation and burden as measured by 18-FDG-PET and MRI, respectively, in the dal-PLAQUE study. <i>International Journal of Cardiovascular Imaging</i> , 2014 , 30, 571-82	2.5	18
44	Impact of mitral regurgitation on exercise capacity and clinical outcomes in patients with ischemic left ventricular dysfunction. <i>American Journal of Cardiology</i> , 2011 , 108, 1714-20	3	18
43	Disentangling the Links Between Psychosocial Stress and Cardiovascular Disease. <i>Circulation: Cardiovascular Imaging</i> , 2020 , 13, e010931	3.9	18
42	Effects of sildenafil on myocardial blood flow in humans with ischemic heart disease. <i>Coronary Artery Disease</i> , 2005 , 16, 443-9	1.4	17
41	Short-term changes in arterial inflammation predict long-term changes in atherosclerosis progression. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017 , 44, 141-150	8.8	16
40	Intravascular detection of inflamed atherosclerotic plaques using a fluorescent photosensitizer targeted to the scavenger receptor. <i>Photochemical and Photobiological Sciences</i> , 2008 , 7, 33-9	4.2	16

39	Treatment with a human recombinant monoclonal IgG antibody against oxidized LDL in atherosclerosis-prone pigs reduces cathepsin S in coronary lesions. <i>International Journal of Cardiology</i> , 2016 , 215, 506-15	3.2	15
38	Inflammation of the periodontium associates with risk of future cardiovascular events. <i>Journal of Periodontology</i> , 2021 , 92, 348-358	4.6	15
37	Aortic distensibility and its relationship to coronary and thoracic atherosclerosis plaque and morphology by MDCT: insights from the ROMICAT Trial. <i>International Journal of Cardiology</i> , 2013 , 167, 1616-21	3.2	14
36	Stress-associated neurobiological activity associates with the risk for and timing of subsequent Takotsubo syndrome. <i>European Heart Journal</i> , 2021 , 42, 1898-1908	9.5	14
35	Photosensitizer delivery to vulnerable atherosclerotic plaque: comparison of macrophage-targeted conjugate versus free chlorin(e6). <i>Journal of Biomedical Optics</i> , 2006 , 11, 021008	3.5	13
34	Amygdalar activity predicts future incident diabetes independently of adiposity. <i>Psychoneuroendocrinology</i> , 2019 , 100, 32-40	5	13
33	A leucopoietic-arterial axis underlying the link between ambient air pollution and cardiovascular disease in humans. <i>European Heart Journal</i> , 2021 , 42, 761-772	9.5	13
32	Molecular imaging of atherosclerosis with integrated PET imaging. <i>Journal of Nuclear Cardiology</i> , 2017 , 24, 938-943	2.1	11
31	Complementary value of cardiac FDG PET and CT for the characterization of atherosclerotic disease. <i>Radiographics</i> , 2011 , 31, 1255-69	5.4	11
30	Myocardial blood flow and oxygen consumption in patients with Friedreich's ataxia prior to the onset of cardiomyopathy. <i>Coronary Artery Disease</i> , 2007 , 18, 15-22	1.4	11
29	SARS-CoV-2 morbidity and mortality in racial/ethnic minority populations: A window into the stress related inflammatory basis of health disparities?. <i>Brain, Behavior, & Immunity - Health</i> , 2020 , 9, 100158	5.1	11
28	Brachial Artery Echogenicity and Grayscale Texture Changes in HIV-Infected Individuals Receiving Low-Dose Methotrexate. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 2870-2878	9.4	11
27	Steroid exposure, acute coronary syndrome, and inflammatory bowel disease: insights into the inflammatory milieu. <i>American Journal of Medicine</i> , 2015 , 128, 303-311	2.4	10
26	Atrial fibrillation is associated with hematopoietic tissue activation and arterial inflammation. <i>International Journal of Cardiovascular Imaging</i> , 2016 , 32, 113-9	2.5	10
25	Noninvasive imaging of arterial inflammation using FDG-PET/CT. <i>Current Opinion in Lipidology</i> , 2014 , 25, 431-7	4.4	10
24	Periodontal Disease Associates With Arterial Inflammation Via Potentiation of a Hematopoietic-Arterial Axis. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 2271-2273	8.4	9
23	FDG PET/CT Imaging of Carotid Atherosclerosis. <i>Neuroimaging Clinics of North America</i> , 2016 , 26, 45-54	3	8
22	Molecular Imaging of Atherosclerosis: A Clinical Focus. <i>Current Cardiovascular Imaging Reports</i> , 2017 , 10, 1	0.7	7

21	Amygdalar Metabolic Activity Independently Associates With Progression of Visceral Adiposity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019 , 104, 1029-1038	5.6	7
20	Joint cardiac and respiratory motion correction and super-resolution reconstruction in coronary PET/CT 2011 ,		6
19	Chronic Stress-Related Neural Activity Associates With Subclinical Cardiovascular Disease in a Community-Based Cohort: Data From the Washington, D.C. Cardiovascular Health and Needs Assessment. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 599341	5.4	6
18	Time-Restricted Salutary Effects of Blood Flow Restoration on Venous Thrombosis and Vein Wall Injury in Mouse and Human Subjects. <i>Circulation</i> , 2021 , 143, 1224-1238	16.7	6
17	Myocardial flow regulation in people with mitochondrial myopathy, encephalopathy, lactic acidosis, stroke-like episodes/myoclonic epilepsy and ragged red fibers and other mitochondrial syndromes. <i>Coronary Artery Disease</i> , 2003 , 14, 197-205	1.4	4
16	Multimodality molecular imaging: Gaining insights into the mechanisms linking chronic stress to cardiovascular disease. <i>Journal of Nuclear Cardiology</i> , 2021 , 28, 955-966	2.1	4
15	Drug-loaded particles: "Trojan horses" in the therapy of atherosclerosis. <i>Atherosclerosis</i> , 2016 , 251, 528-530	5.3	3
14	Imaging High-Risk Atherosclerotic Plaques with PET. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2016 , 18, 76	2.1	3
13	A feasibility study of joint respiratory and cardiac motion correction for coronary PET/CT imaging 2009 ,		3
12	Optical molecular imaging in atherosclerosis. <i>Journal of Nuclear Cardiology</i> , 2010 , 17, 135-44	2.1	3
11	Heart-brain interactions in cardiac and brain diseases: why sex matters.. <i>European Heart Journal</i> , 2022 ,	9.5	3
10	Greater Neurobiological Resilience to Chronic Socioeconomic or Environmental Stressors Associates With Lower Risk for Cardiovascular Disease Events. <i>Circulation: Cardiovascular Imaging</i> , 2020 , 13, e010337	3.9	3
9	A neurobiological link between transportation noise exposure and metabolic disease in humans. <i>Psychoneuroendocrinology</i> , 2021 , 131, 105331	5	3
8	Imaging the Coronary Artery Plaque: Approaches, Advances, and Challenges. <i>Current Cardiovascular Imaging Reports</i> , 2017 , 10, 1	0.7	1
7	Molecular PET and CT Imaging of Inflammation and Metabolism in Atherosclerosis. <i>Current Cardiovascular Imaging Reports</i> , 2010 , 3, 92-98	0.7	1
6	Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography Imaging Predicts Vein Wall Scarring and Statin Benefit in Murine Venous Thrombosis. <i>Circulation: Cardiovascular Imaging</i> , 2021 , 14, e011898	3.9	0
5	Association of Socioeconomic Status and Infarct Volume With Functional Outcome in Patients With Ischemic Stroke.. <i>JAMA Network Open</i> , 2022 , 5, e229178	10.4	0
4	Response to Letter Regarding Article, "18F-Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography Enables the Detection of Recurrent Same-Site Deep Vein Thrombosis by Illuminating Recently Formed, Neutrophil-Rich Thrombus". <i>Circulation</i> , 2015 , 131, e531-2	16.7	

- 3 Imaging High-Risk Atherothrombosis Using a Novel Fibrin-Binding Positron Emission Tomography Probe.. *Stroke*, **2021**, STROKEAHA121035638 6.7
- 2 Henry Gewirtz, MD (1945-2021). *Journal of Nuclear Cardiology*, **2021**, 28, 796-799 2.1
- 1 Clinical Molecular Imaging of Inflammation and Calcification in Atherosclerosis **2021**, 513-530