Zahi A Fayad

List of Publications by Citations

499 papers	41,240 citations	101 h-index	190 g-index
564 ext. papers	47,729 ext. citations	8.2 avg, IF	7.34 L-index

#	Paper	IF	Citations
499	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part I. *Circulation*, **2003**, 108, 1664-72	16.7	1985
498	CT Imaging Features of 2019 Novel Coronavirus (2019-nCoV). *Radiology*, **2020**, 295, 202-207	20.5	1531
497	Chest CT Findings in Coronavirus Disease-19 (COVID-19): Relationship to Duration of Infection. *Radiology*, **2020**, 295, 200463	20.5	1450
496	2010 ACCF/AHA guideline for assessment of cardiovascular risk in asymptomatic adults: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *Journal of the American College of Cardiology*, **2010**, 56, e50-103	15.1	976
495	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part II. *Circulation*, **2003**, 108, 1772-8	16.7	886
494	Cholesterol efflux and atheroprotection: advancing the concept of reverse cholesterol transport. *Circulation*, **2012**, 125, 1905-19	16.7	614
493	Association of Treatment Dose Anticoagulation With In-Hospital Survival Among Hospitalized Patients With COVID-19. *Journal of the American College of Cardiology*, **2020**, 76, 122-124	15.1	606
492	Accuracy of 64-slice computed tomography to classify and quantify plaque volumes in the proximal coronary system: a comparative study using intravascular ultrasound. *Journal of the American College of Cardiology*, **2006**, 47, 672-7	15.1	606
491	Long-term air pollution exposure and acceleration of atherosclerosis and vascular inflammation in an animal model. *JAMA - Journal of the American Medical Association*, **2005**, 294, 3003-10	27.4	600
490	Atherothrombosis and high-risk plaque: part I: evolving concepts. *Journal of the American College of Cardiology*, **2005**, 46, 937-54	15.1	574
489	Multifunctional gold nanoparticles for diagnosis and therapy of disease. *Molecular Pharmaceutics*, **2013**, 10, 831-47	5.6	496
488	From vulnerable plaque to vulnerable patient--Part III: Executive summary of the Screening for Heart Attack Prevention and Education (SHAPE) Task Force report. *American Journal of Cardiology*, **2006**, 98, 2H-15H	3	489
487	Noninvasive in vivo human coronary artery lumen and wall imaging using black-blood magnetic resonance imaging. *Circulation*, **2000**, 102, 506-10	16.7	482
486	Artificial intelligence-enabled rapid diagnosis of patients with COVID-19. *Nature Medicine*, **2020**, 26, 1224-1228	50.128	453
485	2010 ACCF/AHA guideline for assessment of cardiovascular risk in asymptomatic adults: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *Circulation*, **2010**, 122, e584-636	16.7	451
484	Multislice dark-blood carotid artery wall imaging: a 1.5 T and 3.0 T comparison. *Journal of Magnetic Resonance Imaging*, **2006**, 23, 699-705	5.6	427
483	Imaging of atherosclerotic cardiovascular disease. *Nature*, **2008**, 451, 953-7	50.4	417

482	Effects of lipid-lowering by simvastatin on human atherosclerotic lesions: a longitudinal study by high-resolution, noninvasive magnetic resonance imaging. *Circulation*, **2001**, 104, 249-52	16.7	410
481	Safety and efficacy of dalcetrapib on atherosclerotic disease using novel non-invasive multimodality imaging (dal-PLAQUE): a randomised clinical trial. *Lancet, The*, **2011**, 378, 1547-59	40	407
480	Lipid lowering by simvastatin induces regression of human atherosclerotic lesions: two yearsQ follow-up by high-resolution noninvasive magnetic resonance imaging. *Circulation*, **2002**, 106, 2884-7	16.7	407
479	Clinical imaging of the high-risk or vulnerable atherosclerotic plaque. *Circulation Research*, **2001**, 89, 305-16	16.7	395
478	Noninvasive detection of macrophages using a nanoparticulate contrast agent for computed tomography. *Nature Medicine*, **2007**, 13, 636-41	50.5	368
477	MRI-based attenuation correction for hybrid PET/MRI systems: a 4-class tissue segmentation technique using a combined ultrashort-echo-time/Dixon MRI sequence. *Journal of Nuclear Medicine*, **2012**, 53, 796-804	8.9	365
476	Atherosclerotic plaque composition: analysis with multicolor CT and targeted gold nanoparticles. *Radiology*, **2010**, 256, 774-82	20.5	361
475	Prevalence and Impact of Myocardial Injury in Patients Hospitalized With COVID-19 Infection. *Journal of the American College of Cardiology*, **2020**, 76, 533-546	15.1	359
474	(18)Fluorodeoxyglucose positron emission tomography imaging of atherosclerotic plaque inflammation is highly reproducible: implications for atherosclerosis therapy trials. *Journal of the American College of Cardiology*, **2007**, 50, 892-6	15.1	359
473	Atherosclerosis inflammation imaging with 18F-FDG PET: carotid, iliac, and femoral uptake reproducibility, quantification methods, and recommendations. *Journal of Nuclear Medicine*, **2008**, 49, 871-8	8.9	358
472	Social stress induces neurovascular pathology promoting depression. *Nature Neuroscience*, **2017**, 20, 1752-1760	25.5	354
471	Detecting and assessing macrophages in vivo to evaluate atherosclerosis noninvasively using molecular MRI. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 961-6	11.5	310
470	Intensification of statin therapy results in a rapid reduction in atherosclerotic inflammation: results of a multicenter fluorodeoxyglucose-positron emission tomography/computed tomography feasibility study. *Journal of the American College of Cardiology*, **2013**, 62, 909-17	15.1	297
469	Imaging atherosclerotic plaque inflammation by fluorodeoxyglucose with positron emission tomography: ready for prime time?. *Journal of the American College of Cardiology*, **2010**, 55, 2527-35	15.1	290
468	Perspectives and opportunities for nanomedicine in the management of atherosclerosis. *Nature Reviews Drug Discovery*, **2011**, 10, 835-52	64.1	281
467	In vivo magnetic resonance evaluation of atherosclerotic plaques in the human thoracic aorta: a comparison with transesophageal echocardiography. *Circulation*, **2000**, 101, 2503-9	16.7	280
466	2010 ACCF/AHA guideline for assessment of cardiovascular risk in asymptomatic adults: executive summary: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *Circulation*, **2010**, 122, 2748-64	16.7	279
465	Nanocrystal core high-density lipoproteins: a multimodality contrast agent platform. *Nano Letters*, **2008**, 8, 3715-23	11.5	277

464	Recombinant HDL-like nanoparticles: a specific contrast agent for MRI of atherosclerotic plaques. *Journal of the American Chemical Society*, **2004**, 126, 16316-7	16.4	271
463	Relation between resting amygdalar activity and cardiovascular events: a longitudinal and cohort study. *Lancet, The*, **2017**, 389, 834-845	40	269
462	A statin-loaded reconstituted high-density lipoprotein nanoparticle inhibits atherosclerotic plaque inflammation. *Nature Communications*, **2014**, 5, 3065	17.4	269
461	The diagnostic accuracy of ex vivo MRI for human atherosclerotic plaque characterization. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1999**, 19, 2756-61	9.4	263
460	Anticoagulation, Bleeding, Mortality, and Pathology in Hospitalized Patients With COVID-19. *Journal of the American College of Cardiology*, **2020**, 76, 1815-1826	15.1	240
459	Effects of aggressive versus conventional lipid-lowering therapy by simvastatin on human atherosclerotic lesions: a prospective, randomized, double-blind trial with high-resolution magnetic resonance imaging. *Journal of the American College of Cardiology*, **2005**, 46, 106-12	15.1	225
458	AKI in Hospitalized Patients with COVID-19. *Journal of the American Society of Nephrology: JASN*, **2021**, 32, 151-160	12.7	225
457	Nanoparticulate assemblies of amphiphiles and diagnostically active materials for multimodality imaging. *Accounts of Chemical Research*, **2009**, 42, 904-14	24.3	223
456	Computed tomography and magnetic resonance imaging for noninvasive coronary angiography and plaque imaging: current and potential future concepts. *Circulation*, **2002**, 106, 2026-34	16.7	218
455	Nanotechnology in medical imaging: probe design and applications. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 992-1000	9.4	213
454	Nanoparticle contrast agents for computed tomography: a focus on micelles. *Contrast Media and Molecular Imaging*, **2014**, 9, 37-52	3.2	211
453	Molecular, cellular and functional imaging of atherothrombosis. *Nature Reviews Drug Discovery*, **2004**, 3, 913-25	64.1	209
452	Improved biocompatibility and pharmacokinetics of silica nanoparticles by means of a lipid coating: a multimodality investigation. *Nano Letters*, **2008**, 8, 2517-25	11.5	204
451	Thrombus formation on atherosclerotic plaques: pathogenesis and clinical consequences. *Annals of Internal Medicine*, **2001**, 134, 224-38	8	201
450	Noninvasive In vivo high-resolution magnetic resonance imaging of atherosclerotic lesions in genetically engineered mice. *Circulation*, **1998**, 98, 1541-7	16.7	201
449	Relationships among regional arterial inflammation, calcification, risk factors, and biomarkers: a prospective fluorodeoxyglucose positron-emission tomography/computed tomography imaging study. *Circulation: Cardiovascular Imaging*, **2009**, 2, 107-15	3.9	196
448	Lipid-rich atherosclerotic plaques detected by gadofluorine-enhanced in vivo magnetic resonance imaging. *Circulation*, **2004**, 109, 2890-6	16.7	180
447	Gradient echo acquisition for superparamagnetic particles with positive contrast (GRASP): sequence characterization in membrane and glass superparamagnetic iron oxide phantoms at 1.5T and 3T. *Magnetic Resonance in Medicine*, **2006**, 55, 126-35	4.4	177

446   Effects of the high-density lipoprotein mimetic agent CER-001 on coronary atherosclerosis in patients with acute coronary syndromes: a randomized trial. *European Heart Journal*, **2014**, 35, 3277-86   9.5   176

445   Acute coronary syndromes: biology. *Lancet, The*, **1999**, 353 Suppl 2, SII5-9   40   170

444   Therapeutic targeting of trained immunity. *Nature Reviews Drug Discovery*, **2019**, 18, 553-566   64.1   169

443   Clinical and Chest Radiography Features Determine Patient Outcomes in Young and Middle-aged Adults with COVID-19. *Radiology*, **2020**, 297, E197-E206   20.5   167

442   Multifunctional nanoemulsion platform for imaging guided therapy evaluated in experimental cancer. *ACS Nano*, **2011**, 5, 4422-33   16.7   162

441   Detection of high-risk atherosclerotic plaque: report of the NHLBI Working Group on current status and future directions. *JACC: Cardiovascular Imaging*, **2012**, 5, 941-55   8.4   161

440   Imaging Atherosclerosis. *Circulation Research*, **2016**, 118, 750-69   15.7   160

439   Mass production and size control of lipid-polymer hybrid nanoparticles through controlled microvortices. *Nano Letters*, **2012**, 12, 3587-91   11.5   158

438   Targeted molecular probes for imaging atherosclerotic lesions with magnetic resonance using antibodies that recognize oxidation-specific epitopes. *Circulation*, **2008**, 117, 3206-15   16.7   157

437   Magnetic and fluorescent nanoparticles for multimodality imaging. *Nanomedicine*, **2007**, 2, 307-24   5.6   150

436   Modified natural nanoparticles as contrast agents for medical imaging. *Advanced Drug Delivery Reviews*, **2010**, 62, 329-38   18.5   148

435   Splenic metabolic activity predicts risk of future cardiovascular events: demonstration of a cardiosplenic axis in humans. *JACC: Cardiovascular Imaging*, **2015**, 8, 121-30   8.4   146

434   Progression and regression of atherosclerotic lesions: monitoring with serial noninvasive magnetic resonance imaging. *Circulation*, **2002**, 105, 993-8   16.7   144

433   Properties of a versatile nanoparticle platform contrast agent to image and characterize atherosclerotic plaques by magnetic resonance imaging. *Nano Letters*, **2006**, 6, 2220-4   11.5   142

432   Risk scores predict atherosclerotic lesions in young people. *Archives of Internal Medicine*, **2005**, 165, 883-90   140

431   Evaluation of matrix metalloproteinases in atherosclerosis using a novel noninvasive imaging approach. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 425-32   9.4   139

430   Probing nanoparticle translocation across the permeable endothelium in experimental atherosclerosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 1078-83   11.5   138

429   Atherothrombosis and high-risk plaque: Part II: approaches by noninvasive computed tomographic/magnetic resonance imaging. *Journal of the American College of Cardiology*, **2005**, 46, 1209-18   15.1   138

428	Inhibiting macrophage proliferation suppresses atherosclerotic plaque inflammation. *Science Advances*, **2015**, 1,	14.3	137
427	MRI to detect atherosclerosis with gadolinium-containing immunomicelles targeting the macrophage scavenger receptor. *Magnetic Resonance in Medicine*, **2006**, 56, 601-10	4.4	136
426	Chronic thrombus detection with in vivo magnetic resonance imaging and a fibrin-targeted contrast agent. *Circulation*, **2005**, 112, 1594-600	16.7	136
425	Paramagnetic lipid-coated silica nanoparticles with a fluorescent quantum dot core: a new contrast agent platform for multimodality imaging. *Bioconjugate Chemistry*, **2008**, 19, 2471-9	6.3	133
424	Imaging and nanomedicine in inflammatory atherosclerosis. *Science Translational Medicine*, **2014**, 6, 239sr1	17.5	131
423	Characterization of atherosclerotic plaques by magnetic resonance imaging. *Annals of the New York Academy of Sciences*, **2000**, 902, 173-86	6.5	131
422	Assessment of myocardial perfusion and viability from routine contrast-enhanced 16-detector-row computed tomography of the heart: preliminary results. *European Radiology*, **2005**, 15, 864-71	8	129
421	2-deoxy-2-[18F]fluoro-D-mannose positron emission tomography imaging in atherosclerosis. *Nature Medicine*, **2014**, 20, 215-9	50.5	128
420	Multimodal clinical imaging to longitudinally assess a nanomedical anti-inflammatory treatment in experimental atherosclerosis. *Molecular Pharmaceutics*, **2010**, 7, 2020-9	5.6	128
419	Effect of lipid-lowering therapy with atorvastatin on atherosclerotic aortic plaques detected by noninvasive magnetic resonance imaging. *Journal of the American College of Cardiology*, **2005**, 45, 733-42	15.1	128
418	MRI and characterization of atherosclerotic plaque: emerging applications and molecular imaging. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2002**, 22, 1065-74	9.4	126
417	Multimodality imaging of atherosclerotic plaque activity and composition using FDG-PET/CT and MRI in carotid and femoral arteries. *Atherosclerosis*, **2009**, 207, 139-43	3.1	123
416	Serial in vivo MRI documents arterial remodeling in experimental atherosclerosis. *Circulation*, **2000**, 101, 586-9	16.7	122
415	Molecular imaging of tumor angiogenesis using alphavbeta3-integrin targeted multimodal quantum dots. *Angiogenesis*, **2009**, 12, 17-24	10.6	121
414	PET Imaging of Tumor-Associated Macrophages with 89Zr-Labeled High-Density Lipoprotein Nanoparticles. *Journal of Nuclear Medicine*, **2015**, 56, 1272-7	8.9	120
413	Molecular imaging of macrophages in atherosclerotic plaques using bimodal PEG-micelles. *Magnetic Resonance in Medicine*, **2007**, 58, 1164-70	4.4	120
412	MRI of carotid atherosclerosis: clinical implications and future directions. *Nature Reviews Cardiology*, **2010**, 7, 165-73	14.8	119
411	Multimodality cardiovascular molecular imaging, Part II. *Circulation: Cardiovascular Imaging*, **2009**, 2, 56-70	9.9	119

410	Magnetic resonance imaging of vulnerable atherosclerotic plaques: current imaging strategies and molecular imaging probes. *Journal of Magnetic Resonance Imaging*, **2007**, 26, 460-79	5.6	117
409	Dramatic remodeling of advanced atherosclerotic plaques of the apolipoprotein E-deficient mouse in a novel transplantation model. *Journal of Vascular Surgery*, **2001**, 34, 541-7	3.5	116
408	Detection of neovessels in atherosclerotic plaques of rabbits using dynamic contrast enhanced MRI and 18F-FDG PET. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 1311-7	9.4	114
407	HIF-1 and PFKFB3 Mediate a Tight Relationship Between Proinflammatory Activation and Anerobic Metabolism in Atherosclerotic Macrophages. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 1463-71	9.4	111
406	New Applications of Cardiac Computed Tomography: Dual-Energy, Spectral, and Molecular CT Imaging. *JACC: Cardiovascular Imaging*, **2015**, 8, 710-23	8.4	108
405	Inflammation imaging in atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 1009-16	9.4	108
404	Effects of p38 mitogen-activated protein kinase inhibition on vascular and systemic inflammation in patients with atherosclerosis. *JACC: Cardiovascular Imaging*, **2012**, 5, 911-22	8.4	105
403	Quantification of inflammation within rabbit atherosclerotic plaques using the macrophage-specific CT contrast agent N1177: a comparison with 18F-FDG PET/CT and histology. *Journal of Nuclear Medicine*, **2009**, 50, 959-65	8.9	105
402	Hyaluronan Nanoparticles Selectively Target Plaque-Associated Macrophages and Improve Plaque Stability in Atherosclerosis. *ACS Nano*, **2017**, 11, 5785-5799	16.7	103
401	Does shear stress modulate both plaque progression and regression in the thoracic aorta? Human study using serial magnetic resonance imaging. *Journal of the American College of Cardiology*, **2005**, 45, 846-54	15.1	103
400	In vivo noninvasive detection and age definition of arterial thrombus by MRI. *Journal of the American College of Cardiology*, **2002**, 39, 1366-73	15.1	103
399	2010 ACCF/AHA Guideline for Assessment of Cardiovascular Risk in Asymptomatic Adults: Executive Summary: A Report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines Developed in Collaboration With the American Society of Echocardiography, American Society of Nuclear Cardiology, Society of Atherosclerosis [...] ege of Cardiology, **2010**, 56, 2182-2199	15.1	102
398	Coronavirus 2019 and People Living With Human Immunodeficiency Virus: Outcomes for Hospitalized Patients in New York City. *Clinical Infectious Diseases*, **2020**, 71, 2933-2938	11.6	100
397	Lipoprotein(a) and Oxidized Phospholipids Promote Valve Calcification in Patients With Aortic Stenosis. *Journal of the American College of Cardiology*, **2019**, 73, 2150-2162	15.1	97
396	Prednisolone-containing liposomes accumulate in human atherosclerotic macrophages upon intravenous administration. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 1039-46	6	97
395	High-density lipoprotein-based contrast agents for multimodal imaging of atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 169-76	9.4	97
394	Iron oxide core oil-in-water emulsions as a multifunctional nanoparticle platform for tumor targeting and imaging. *Biomaterials*, **2009**, 30, 6947-54	15.6	97
393	Augmenting drug-carrier compatibility improves tumour nanotherapy efficacy. *Nature Communications*, **2016**, 7, 11221	17.4	96

392	An ApoA-I mimetic peptide high-density-lipoprotein-based MRI contrast agent for atherosclerotic plaque composition detection. *Small*, **2008**, 4, 1437-44	11	96
391	Polyglucose nanoparticles with renal elimination and macrophage avidity facilitate PET imaging in ischaemic heart disease. *Nature Communications*, **2017**, 8, 14064	17.4	95
390	Inhibiting Inflammation with Myeloid Cell-Specific Nanobiologics Promotes Organ Transplant Acceptance. *Immunity*, **2018**, 49, 819-828.e6	32.3	95
389	Hybrid Magnetic Resonance Imaging and Positron Emission Tomography With Fluorodeoxyglucose to Diagnose Active Cardiac Sarcoidosis. *JACC: Cardiovascular Imaging*, **2018**, 11, 94-107	8.4	94
388	Synthesis of polymer-lipid nanoparticles for image-guided delivery of dual modality therapy. *Bioconjugate Chemistry*, **2013**, 24, 1429-34	6.3	93
387	RGD peptide functionalized and reconstituted high-density lipoprotein nanoparticles as a versatile and multimodal tumor targeting molecular imaging probe. *FASEB Journal*, **2010**, 24, 1689-99	0.9	93
386	Multidetector-row computed tomography and magnetic resonance imaging of atherosclerotic lesions in human ex vivo coronary arteries. *Atherosclerosis*, **2004**, 174, 243-52	3.1	93
385	Noninvasive in vivo magnetic resonance imaging of experimental coronary artery lesions in a porcine model. *Circulation*, **2000**, 101, 2956-61	16.7	93
384	Atherosclerotic aortic component quantification by noninvasive magnetic resonance imaging: an in vivo study in rabbits. *Journal of the American College of Cardiology*, **2001**, 37, 1149-54	15.1	93
383	HDL-mimetic PLGA nanoparticle to target atherosclerosis plaque macrophages. *Bioconjugate Chemistry*, **2015**, 26, 443-51	6.3	92
382	Single step reconstitution of multifunctional high-density lipoprotein-derived nanomaterials using microfluidics. *ACS Nano*, **2013**, 7, 9975-83	16.7	89
381	Atherosclerotic plaque targeting mechanism of long-circulating nanoparticles established by multimodal imaging. *ACS Nano*, **2015**, 9, 1837-47	16.7	89
380	Noninvasive Molecular Imaging of Disease Activity in Atherosclerosis. *Circulation Research*, **2016**, 119, 330-40	15.7	89
379	Targeted iron oxide particles for in vivo magnetic resonance detection of atherosclerotic lesions with antibodies directed to oxidation-specific epitopes. *Journal of the American College of Cardiology*, **2011**, 57, 337-47	15.1	87
378	Annexin A5-functionalized bimodal nanoparticles for MRI and fluorescence imaging of atherosclerotic plaques. *Bioconjugate Chemistry*, **2010**, 21, 1794-803	6.3	87
377	A fluorescent, paramagnetic and PEGylated gold/silica nanoparticle for MRI, CT and fluorescence imaging. *Contrast Media and Molecular Imaging*, **2010**, 5, 231-6	3.2	87
376	Multimodality cardiovascular molecular imaging, part I. *Circulation: Cardiovascular Imaging*, **2008**, 1, 244-56	3.9	87
375	High-dose atorvastatin reduces periodontal inflammation: a novel pleiotropic effect of statins. *Journal of the American College of Cardiology*, **2013**, 62, 2382-2391	15.1	85

374	Trained immunity, tolerance, priming and differentiation: distinct immunological processes. *Nature Immunology*, **2021**, 22, 2-6	19.1	85
373	Elevated serum advanced glycation endproducts in obese indicate risk for the metabolic syndrome: a link between healthy and unhealthy obesity?. *Journal of Clinical Endocrinology and Metabolism*, **2015**, 100, 1957-66	5.6	84
372	High resolution ex vivo magnetic resonance imaging of in situ coronary and aortic atherosclerotic plaque in a porcine model. *Atherosclerosis*, **2000**, 150, 321-9	3.1	83
371	Machine Learning to Predict Mortality and Critical Events in a Cohort of Patients With COVID-19 in New York City: Model Development and Validation. *Journal of Medical Internet Research*, **2020**, 22, e24018	7.6	82
370	Optimizing 18F-FDG PET/CT imaging of vessel wall inflammation: the impact of 18F-FDG circulation time, injected dose, uptake parameters, and fasting blood glucose levels. *European Journal of Nuclear Medicine and Molecular Imaging*, **2014**, 41, 369-83	8.8	81
369	Global cardiac function using fast breath-hold MRI: validation of new acquisition and analysis techniques. *Magnetic Resonance in Medicine*, **1997**, 37, 683-92	4.4	79
368	Prognostic Impact of Prior Heart Failure in Patients Hospitalized With COVID-19. *Journal of the American College of Cardiology*, **2020**, 76, 2334-2348	15.1	78
367	Incorporation of an apoE-derived lipopeptide in high-density lipoprotein MRI contrast agents for enhanced imaging of macrophages in atherosclerosis. *Contrast Media and Molecular Imaging*, **2008**, 3, 233-42	3.2	77
366	Clearance of iron oxide particles in rat liver: effect of hydrated particle size and coating material on liver metabolism. *Investigative Radiology*, **2006**, 41, 560-71	10.1	77
365	Imaging atherosclerosis and vulnerable plaque. *Journal of Nuclear Medicine*, **2010**, 51 Suppl 1, 51S-65S	8.9	76
364	Serial studies of mouse atherosclerosis by in vivo magnetic resonance imaging detect lesion regression after correction of dyslipidemia. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2004**, 24, 1714-9	9.4	76
363	Immune cell screening of a nanoparticle library improves atherosclerosis therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E6731-E6740	11.5	75
362	Nonpharmacological lipoprotein apheresis reduces arterial inflammation in familial hypercholesterolemia. *Journal of the American College of Cardiology*, **2014**, 64, 1418-26	15.1	74
361	Noninvasive assessment of hypoxia in rabbit advanced atherosclerosis using ﬂ-fluoromisonidazole positron emission tomographic imaging. *Circulation: Cardiovascular Imaging*, **2014**, 7, 312-20	3.9	74
360	Oral AGE restriction ameliorates insulin resistance in obese individuals with the metabolic syndrome: a randomised controlled trial. *Diabetologia*, **2016**, 59, 2181-92	10.3	74
359	MRI-based motion correction of thoracic PET: initial comparison of acquisition protocols and correction strategies suitable for simultaneous PET/MRI systems. *European Radiology*, **2012**, 22, 439-46	8	73
358	Atherosclerosis and matrix metalloproteinases: experimental molecular MR imaging in vivo. *Radiology*, **2009**, 251, 429-38	20.5	73
357	Nanoreporter PET predicts the efficacy of anti-cancer nanotherapy. *Nature Communications*, **2016**, 7, 11838	17.4	73

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355	Magnetic resonance imaging of atherosclerosis by targeting extracellular matrix deposition with Gadofluorine M. *Contrast Media and Molecular Imaging*, **2007**, 2, 120-9	3.2	72
354	Quantification of human atherosclerotic plaques using spatially enhanced cluster analysis of multicontrast-weighted magnetic resonance images. *Magnetic Resonance in Medicine*, **2004**, 52, 515-23	4.4	71
353	Macrophage-specific lipid-based nanoparticles improve cardiac magnetic resonance detection and characterization of human atherosclerosis. *JACC: Cardiovascular Imaging*, **2009**, 2, 637-47	8.4	70
352	Coronary Artery PET/MR Imaging: Feasibility, Limitations, and Solutions. *JACC: Cardiovascular Imaging*, **2017**, 10, 1103-1112	8.4	69
351	Quantum dot and Cy5.5 labeled nanoparticles to investigate lipoprotein biointeractions via Förster resonance energy transfer. *Nano Letters*, **2010**, 10, 5131-8	11.5	69
350	Fibrin-targeted contrast agent for improvement of in vivo acute thrombus detection with magnetic resonance imaging. *Atherosclerosis*, **2005**, 182, 79-85	3.1	69
349	The Progression and Early detection of Subclinical Atherosclerosis (PESA) study: rationale and design. *American Heart Journal*, **2013**, 166, 990-8	4.9	68
348	In vivo characterization of a new abdominal aortic aneurysm mouse model with conventional and molecular magnetic resonance imaging. *Journal of the American College of Cardiology*, **2011**, 58, 2522-30	15.1	67
347	Engineering of lipid-coated PLGA nanoparticles with a tunable payload of diagnostically active nanocrystals for medical imaging. *Chemical Communications*, **2012**, 48, 5835-7	5.8	66
346	Pioglitazone modulates vascular inflammation in atherosclerotic rabbits noninvasive assessment with FDG-PET-CT and dynamic contrast-enhanced MR imaging. *JACC: Cardiovascular Imaging*, **2011**, 4, 1100-9	8.4	66
345	Right ventricular regional function using MR tagging: normals versus chronic pulmonary hypertension. *Magnetic Resonance in Medicine*, **1998**, 39, 116-23	4.4	66
344	Effect of treatment for 12 weeks with rilapladib, a lipoprotein-associated phospholipase A2 inhibitor, on arterial inflammation as assessed with 18F-fluorodeoxyglucose-positron emission tomography imaging. *Journal of the American College of Cardiology*, **2014**, 63, 86-8	15.1	65
343	Gold nanocrystal labeling allows low-density lipoprotein imaging from the subcellular to macroscopic level. *ACS Nano*, **2013**, 7, 9761-70	16.7	65
342	Brain imaging changes associated with risk factors for cardiovascular and cerebrovascular disease in asymptomatic patients. *JACC: Cardiovascular Imaging*, **2014**, 7, 1039-53	8.4	64
341	In vivo magnetic resonance evaluation of associations between aortic atherosclerosis and both risk factors and coronary artery disease in patients referred for coronary angiography. *American Heart Journal*, **2004**, 148, 137-43	4.9	64
340	Collagen-specific peptide conjugated HDL nanoparticles as MRI contrast agent to evaluate compositional changes in atherosclerotic plaque regression. *JACC: Cardiovascular Imaging*, **2013**, 6, 373-84	8.4	63
339	In Vivo PET Imaging of HDL in Multiple Atherosclerosis Models. *JACC: Cardiovascular Imaging*, **2016**, 9, 950-61	8.4	62

338	Persistent arterial wall inflammation in patients with elevated lipoprotein(a) despite strong low-density lipoprotein cholesterol reduction by proprotein convertase subtilisin/kexin type 9 antibody treatment. *European Heart Journal*, **2019**, 40, 2775-2781	9.5	61
337	Efficacy and safety assessment of a TRAF6-targeted nanoimmunotherapy in atherosclerotic mice and non-human primates. *Nature Biomedical Engineering*, **2018**, 2, 279-292	19	60
336	Comparison of synthetic high density lipoprotein (HDL) contrast agents for MR imaging of atherosclerosis. *Bioconjugate Chemistry*, **2009**, 20, 937-43	6.3	60
335	Arterial Effects of Canakinumab in Patients With Atherosclerosis and Type 2 Diabetes or Glucose Intolerance. *Journal of the American College of Cardiology*, **2016**, 68, 1769-1780	15.1	59
334	Regression of inflammation in atherosclerosis by the LXR agonist R211945: a noninvasive assessment and comparison with atorvastatin. *JACC: Cardiovascular Imaging*, **2012**, 5, 819-28	8.4	59
333	Simultaneous PET-MRI in oncology: a solution looking for a problem?. *Magnetic Resonance Imaging*, **2012**, 30, 1342-56	3.3	59
332	The biological properties of iron oxide core high-density lipoprotein in experimental atherosclerosis. *Biomaterials*, **2011**, 32, 206-13	15.6	59
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329	Mouse model of heterotopic aortic arch transplantation. *Journal of Surgical Research*, **2003**, 111, 171-6	2.5	57
328	High-relaxivity gadolinium-modified high-density lipoproteins as magnetic resonance imaging contrast agents. *Journal of Physical Chemistry B*, **2009**, 113, 6283-9	3.4	56
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