Zahi A Fayad

List of Publications by Year
in descending order

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528 papers	53,336 citations	1094 112 h-index	1705 213 g-index
564 all docs	564 docs citations	564 times ranked	50034 citing authors

#	Article	IF	Citations
1	From Vulnerable Plaque to Vulnerable Patient. Circulation, 2003, 108, 1664-1672.	1.6	2,308
2	CT Imaging Features of 2019 Novel Coronavirus (2019-nCoV). Radiology, 2020, 295, 202-207.	3.6	2,080
3	Chest CT Findings in Coronavirus Disease-19 (COVID-19): Relationship to Duration of Infection. Radiology, 2020, 295, 200463.	3.6	2,027
4	From Vulnerable Plaque to Vulnerable Patient. Circulation, 2003, 108, 1772-1778.	1.6	1,562
5	2010 ACCF/AHA Guideline for Assessment of Cardiovascular Risk in Asymptomatic Adults. Journal of the American College of Cardiology, 2010, 56, e50-e103.	1.2	1,150
6	2010 ACCF/AHA Guideline for Assessment of Cardiovascular Risk in Asymptomatic Adults. Circulation, 2010, 122, e584-636.	1.6	1,009
7	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.	1.2	814
8	Cholesterol Efflux and Atheroprotection. Circulation, 2012, 125, 1905-1919.	1.6	772
9	Artificial intelligenceâ€“enabled rapid diagnosis of patients with COVID-19. Nature Medicine, 2020, 26, 1224-1228.	15.2	757
10	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.	3.8	710
11	Accuracy of 64-Slice Computed Tomography to Classify and Quantify Plaque Volumes in the Proximal Coronary System. Journal of the American College of Cardiology, 2006, 47, 672-677.	1.2	685
12	Atherothrombosis and High-Risk Plaque. Journal of the American College of Cardiology, 2005, 46, 937-954.	1.2	666
13	Social stress induces neurovascular pathology promoting depression. Nature Neuroscience, 2017, 20, 1752-1760.	7.1	617
14	From Vulnerable Plaque to Vulnerable Patientâ€”Part III: Executive Summary of the Screening for Heart Attack Prevention and Education (SHAPE) Task Force Report. American Journal of Cardiology, 2006, 98, 2-15.	0.7	594
15	Prevalence and Impact of Myocardial Injury in Patients Hospitalized With COVID-19 Infection. Journal of the American College of Cardiology, 2020, 76, 533-546.	1.2	592
16	Multifunctional Gold Nanoparticles for Diagnosis and Therapy of Disease. Molecular Pharmaceutics, 2013, 10, 831-847.	2.3	584
17	Noninvasive In Vivo Human Coronary Artery Lumen and Wall Imaging Using Black-Blood Magnetic Resonance Imaging. Circulation, 2000, 102, 506-510.	1.6	561
18	Imaging of atherosclerotic cardiovascular disease. Nature, 2008, 451, 953-957.	13.7	504

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19	AKI in Hospitalized Patients with COVID-19. Journal of the American Society of Nephrology: JASN, 2021, 32, 151-160.	3.0	500
20	Safety and efficacy of dalcetrapib on atherosclerotic disease using novel non-invasive multimodality imaging (dal-PLAQUE): a randomised clinical trial. Lancet, The, 2011, 378, 1547-1559.	6.3	479
21	Effects of Lipid-Lowering by Simvastatin on Human Atherosclerotic Lesions. Circulation, 2001, 104, 249-252.	1.6	476
22	Clinical Imaging of the High-Risk or Vulnerable Atherosclerotic Plaque. Circulation Research, 2001, 89, 305-316.	2.0	472
23	Lipid Lowering by Simvastatin Induces Regression of Human Atherosclerotic Lesions. Circulation, 2002, 106, 2884-2887.	1.6	467
24	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.	1.9	442
25	Relation between resting amygdalar activity and cardiovascular events: a longitudinal and cohort study. Lancet, The, 2017, 389, 834-845.	6.3	442
26	Atherosclerotic Plaque Composition: Analysis with Multicolor CT and Targeted Gold Nanoparticles. Radiology, 2010, 256, 774-782.	3.6	431
27	Noninvasive detection of macrophages using a nanoparticulate contrast agent for computed tomography. Nature Medicine, 2007, 13, 636-641.	15.2	429
28	18Fluorodeoxyglucose Positron Emission Tomography Imaging of Atherosclerotic Plaque Inflammation Is Highly Reproducible. Journal of the American College of Cardiology, 2007, 50, 892-896.	1.2	415
29	Atherosclerosis Inflammation Imaging with ¹⁸F-FDG PET: Carotid, Iliac, and Femoral Uptake Reproducibility, Quantification Methods, and Recommendations. Journal of Nuclear Medicine, 2008, 49, 871-878.	2.8	410
30	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.	2.8	406
31	Anticoagulation, Bleeding, Mortality, and Pathology in Hospitalized Patients With COVID-19. Journal of the American College of Cardiology, 2020, 76, 1815-1826.	1.2	383
32	Intensification of Statin Therapy Results in a Rapid Reduction in Atherosclerotic Inflammation. Journal of the American College of Cardiology, 2013, 62, 909-917.	1.2	364
33	Detecting and assessing macrophagesin vivoto evaluate atherosclerosis noninvasively using molecular MRI. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 961-966.	3.3	344
34	Perspectives and opportunities for nanomedicine in the management of atherosclerosis. Nature Reviews Drug Discovery, 2011, 10, 835-852.	21.5	341
35	A statin-loaded reconstituted high-density lipoprotein nanoparticle inhibits atherosclerotic plaque inflammation. Nature Communications, 2014, 5, 3065.	5.8	336
36	2010 ACCF/AHA Guideline for Assessment of Cardiovascular Risk in Asymptomatic Adults: Executive Summary. Circulation, 2010, 122, 2748-2764.	1.6	333

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37	Imaging Atherosclerotic Plaque Inflammation by Fluorodeoxyglucose With Positron Emission Tomography. Journal of the American College of Cardiology, 2010, 55, 2527-2535.	1.2	319
38	In Vivo Magnetic Resonance Evaluation of Atherosclerotic Plaques in the Human Thoracic Aorta. Circulation, 2000, 101, 2503-2509.	1.6	316
39	Nanocrystal Core High-Density Lipoproteins: A Multimodality Contrast Agent Platform. Nano Letters, 2008, 8, 3715-3723.	4.5	308
40	Recombinant HDL-Like Nanoparticles:â€‰ A Specific Contrast Agent for MRI of Atherosclerotic Plaques. Journal of the American Chemical Society, 2004, 126, 16316-16317.	6.6	307
41	The Diagnostic Accuracy of Ex Vivo MRI for Human Atherosclerotic Plaque Characterization. Arteriosclerosis, Thrombosis, and Vascular Biology, 1999, 19, 2756-2761.	1.1	302
42	Therapeutic targeting of trained immunity. Nature Reviews Drug Discovery, 2019, 18, 553-566.	21.5	287
43	Trained immunity, tolerance, priming and differentiation: distinct immunological processes. Nature Immunology, 2021, 22, 2-6.	7.0	274
44	Nanoparticle contrast agents for computed tomography: a focus on micelles. Contrast Media and Molecular Imaging, 2014, 9, 37-52.	0.4	268
45	Computed Tomography and Magnetic Resonance Imaging for Noninvasive Coronary Angiography and Plaque Imaging. Circulation, 2002, 106, 2026-2034.	1.6	266
46	Clinical and Chest Radiography Features Determine Patient Outcomes in Young and Middle-aged Adults with COVID-19. Radiology, 2020, 297, E197-E206.	3.6	258
47	Effects of Aggressive Versus Conventional Lipid-Lowering Therapy by Simvastatin on Human Atherosclerotic Lesions. Journal of the American College of Cardiology, 2005, 46, 106-112.	1.2	257
48	Thrombus Formation on Atherosclerotic Plaques: Pathogenesis and Clinical Consequences. Annals of Internal Medicine, 2001, 134, 224.	2.0	253
49	Nanotechnology in Medical Imaging. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 992-1000.	1.1	251
50	Nanoparticulate Assemblies of Amphiphiles and Diagnostically Active Materials for Multimodality Imaging. Accounts of Chemical Research, 2009, 42, 904-914.	7.6	244
51	Molecular, cellular and functional imaging of atherothrombosis. Nature Reviews Drug Discovery, 2004, 3, 913-925.	21.5	229
52	Improved Biocompatibility and Pharmacokinetics of Silica Nanoparticles by Means of a Lipid Coating: A Multimodality Investigation. Nano Letters, 2008, 8, 2517-2525.	4.5	229
53	Relationships Among Regional Arterial Inflammation, Calcification, Risk Factors, and Biomarkers. Circulation: Cardiovascular Imaging, 2009, 2, 107-115.	1.3	227
54	Noninvasive In Vivo High-Resolution Magnetic Resonance Imaging of Atherosclerotic Lesions in Genetically Engineered Mice. Circulation, 1998, 98, 1541-1547.	1.6	224

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55	Acute coronary syndromes: biology. Lancet, The, 1999, 353, s5-s9.	6.3	215
56	Imaging Atherosclerosis. Circulation Research, 2016, 118, 750-769.	2.0	215
57	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, 3277-3286.	1.0	214
58	Lipid-Rich Atherosclerotic Plaques Detected by Gadofluorine-Enhanced In Vivo Magnetic Resonance Imaging. Circulation, 2004, 109, 2890-2896.	1.6	198
59	Detection of High-Risk Atherosclerotic Plaque. JACC: Cardiovascular Imaging, 2012, 5, 941-955.	2.3	198
60	Splenic Metabolic Activity Predicts Risk ofÂFuture Cardiovascular Events. JACC: Cardiovascular Imaging, 2015, 8, 121-130.	2.3	198
61	Mass Production and Size Control of Lipidâ€“Polymer Hybrid Nanoparticles through Controlled Microvortices. Nano Letters, 2012, 12, 3587-3591.	4.5	189
62	Coronavirus 2019 and People Living With Human Immunodeficiency Virus: Outcomes for Hospitalized Patients in New York City. Clinical Infectious Diseases, 2020, 71, 2933-2938.	2.9	189
63	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, 126-135.	1.9	188
64	Lipoprotein(a) and Oxidized Phospholipids Promote Valve Calcification in Patients With AorticÂStenosis. Journal of the American College of Cardiology, 2019, 73, 2150-2162.	1.2	187
65	Multifunctional Nanoemulsion Platform for Imaging Guided Therapy Evaluated in Experimental Cancer. ACS Nano, 2011, 5, 4422-4433.	7.3	183
66	Progression and Regression of Atherosclerotic Lesions. Circulation, 2002, 105, 993-998.	1.6	180
67	Risk Scores Predict Atherosclerotic Lesions in Young People. Archives of Internal Medicine, 2005, 165, 883.	4.3	179
68	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.	2.1	174
69	Inhibiting macrophage proliferation suppresses atherosclerotic plaque inflammation. Science Advances, 2015, 1, .	4.7	173
70	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, 1078-1083.	3.3	171
71	Targeted Molecular Probes for Imaging Atherosclerotic Lesions With Magnetic Resonance Using Antibodies That Recognize Oxidation-Specific Epitopes. Circulation, 2008, 117, 3206-3215.	1.6	170
72	Modified natural nanoparticles as contrast agents for medical imaging. Advanced Drug Delivery Reviews, 2010, 62, 329-338.	6.6	165

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73	Inhibiting Inflammation with Myeloid Cell-Specific Nanobiologics Promotes Organ Transplant Acceptance. Immunity, 2018, 49, 819-828.e6.	6.6	161
74	Magnetic and fluorescent nanoparticles for multimodality imaging. Nanomedicine, 2007, 2, 307-324.	1.7	160
75	2-deoxy-2-[18F]fluoro-d-mannose positron emission tomography imaging in atherosclerosis. Nature Medicine, 2014, 20, 215-219.	15.2	159
76	Atherothrombosis and High-Risk Plaque. Journal of the American College of Cardiology, 2005, 46, 1209-1218.	1.2	157
77	Imaging and Nanomedicine in Inflammatory Atherosclerosis. Science Translational Medicine, 2014, 6, 239sr1.	5.8	157
78	Prognostic Impact of Prior HeartÂFailure in Patients Hospitalized With COVID-19. Journal of the American College of Cardiology, 2020, 76, 2334-2348.	1.2	157
79	Properties of a Versatile Nanoparticle Platform Contrast Agent To Image and Characterize Atherosclerotic Plaques by Magnetic Resonance Imaging. Nano Letters, 2006, 6, 2220-2224.	4.5	156
80	Characterization of Atherosclerotic Plaques by Magnetic Resonance Imaging. Annals of the New York Academy of Sciences, 2000, 902, 173-186.	1.8	155
81	Hybrid Magnetic Resonance Imaging and Positron Emission Tomography With Fluorodeoxyglucose to Diagnose ActiveÂCardiac Sarcoidosis. JACC: Cardiovascular Imaging, 2018, 11, 94-107.	2.3	152
82	Chronic Thrombus Detection With In Vivo Magnetic Resonance Imaging and a Fibrin-Targeted Contrast Agent. Circulation, 2005, 112, 1594-1600.	1.6	150
83	HIF-1Î± and PFKFB3 Mediate a Tight Relationship Between Proinflammatory Activation and Anerobic Metabolism in Atherosclerotic Macrophages. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1463-1471.	1.1	150
84	Evaluation of Matrix Metalloproteinases in Atherosclerosis Using a Novel Noninvasive Imaging Approach. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 425-432.	1.1	149
85	MRI to detect atherosclerosis with gadolinium-containing immunomicelles targeting the macrophage scavenger receptor. Magnetic Resonance in Medicine, 2006, 56, 601-610.	1.9	145
86	PET Imaging of Tumor-Associated Macrophages with ⁸⁹Zr-Labeled High-Density Lipoprotein Nanoparticles. Journal of Nuclear Medicine, 2015, 56, 1272-1277.	2.8	145
87	Multimodal Clinical Imaging To Longitudinally Assess a Nanomedical Anti-Inflammatory Treatment in Experimental Atherosclerosis. Molecular Pharmaceutics, 2010, 7, 2020-2029.	2.3	144
88	Paramagnetic Lipid-Coated Silica Nanoparticles with a Fluorescent Quantum Dot Core: A New Contrast Agent Platform for Multimodality Imaging. Bioconjugate Chemistry, 2008, 19, 2471-2479.	1.8	143
89	MRI of carotid atherosclerosis: clinical implications and future directions. Nature Reviews Cardiology, 2010, 7, 165-173.	6.1	143
90	Multimodality imaging of atherosclerotic plaque activity and composition using FDG-PET/CT and MRI in carotid and femoral arteries. Atherosclerosis, 2009, 207, 139-143.	0.4	142

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91	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, 733-742.	1.2	141
92	Assessment of myocardial perfusion and viability from routine contrast-enhanced 16-detector-row computed tomography of the heart: preliminary results. European Radiology, 2005, 15, 864-871.	2.3	139
93	Molecular imaging of tumor angiogenesis using Î±vÎ²3-integrin targeted multimodal quantum dots. Angiogenesis, 2009, 12, 17-24.	3.7	139
94	MRI and Characterization of Atherosclerotic Plaque. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 1065-1074.	1.1	138
95	Serial In Vivo MRI Documents Arterial Remodeling in Experimental Atherosclerosis. Circulation, 2000, 101, 586-589.	1.6	137
96	Hyaluronan Nanoparticles Selectively Target Plaque-Associated Macrophages and Improve Plaque Stability in Atherosclerosis. ACS Nano, 2017, 11, 5785-5799.	7.3	137
97	New Applications of Cardiac Computed Tomography. JACC: Cardiovascular Imaging, 2015, 8, 710-723.	2.3	134
98	2010 ACCF/AHA Guideline for Assessment of Cardiovascular Risk in Asymptomatic Adults: Executive Summary. Journal of the American College of Cardiology, 2010, 56, 2182-2199.	1.2	133
99	Multimodality Cardiovascular Molecular Imaging, Part II. Circulation: Cardiovascular Imaging, 2009, 2, 56-70.	1.3	130
100	Magnetic resonance imaging of vulnerable atherosclerotic plaques: Current imaging strategies and molecular imaging probes. Journal of Magnetic Resonance Imaging, 2007, 26, 460-479.	1.9	128
101	Dramatic remodeling of advanced atherosclerotic plaques of the apolipoprotein Eâ€“deficient mouse in a novel transplantation model. Journal of Vascular Surgery, 2001, 34, 541-2A.	0.6	127
102	Does shear stress modulate both plaque progression and regression in the thoracic aorta?. Journal of the American College of Cardiology, 2005, 45, 846-854.	1.2	127
103	Detection of Neovessels in Atherosclerotic Plaques of Rabbits Using Dynamic Contrast Enhanced MRI and 18F-FDG PET. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1311-1317.	1.1	127
104	HDL-Mimetic PLGA Nanoparticle To Target Atherosclerosis Plaque Macrophages. Bioconjugate Chemistry, 2015, 26, 443-451.	1.8	127
105	Prednisolone-containing liposomes accumulate in human atherosclerotic macrophages upon intravenous administration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1039-1046.	1.7	127
106	Molecular imaging of macrophages in atherosclerotic plaques using bimodal PEGâ€micelles. Magnetic Resonance in Medicine, 2007, 58, 1164-1170.	1.9	126
107	Effects of p38 Mitogen-Activated Protein Kinase Inhibition on Vascular and Systemic Inflammation in Patients With Atherosclerosis. JACC: Cardiovascular Imaging, 2012, 5, 911-922.	2.3	123
108	Challenges in Cardiac and PulmonaryÂSarcoidosis. Journal of the American College of Cardiology, 2020, 76, 1878-1901.	1.2	119

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109	Polyglucose nanoparticles with renal elimination and macrophage avidity facilitate PET imaging in ischaemic heart disease. Nature Communications, 2017, 8, 14064.	5.8	118
110	Multimodality Cardiovascular Molecular Imaging, Part I. Circulation: Cardiovascular Imaging, 2008, 1, 244-256.	1.3	117
111	Inflammation Imaging in Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1009-1016.	1.1	117
112	In vivo noninvasive detection and age definition of arterial thrombus by MRI. Journal of the American College of Cardiology, 2002, 39, 1366-1373.	1.2	115
113	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, 959-965.	2.8	115
114	Noninvasive Molecular Imaging of Disease Activity in Atherosclerosis. Circulation Research, 2016, 119, 330-340.	2.0	114
115	Augmenting drugâ€“carrier compatibility improves tumour nanotherapy efficacy. Nature Communications, 2016, 7, 11221.	5.8	111
116	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, 1957-1966.	1.8	109
117	Stress-Associated Neurobiological Pathway Linking Socioeconomic Disparities to Cardiovascular Disease. Journal of the American College of Cardiology, 2019, 73, 3243-3255.	1.2	109
118	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, 337-347.	1.2	108
119	Federated Learning of Electronic Health Records to Improve Mortality Prediction in Hospitalized Patients With COVID-19: Machine Learning Approach. JMIR Medical Informatics, 2021, 9, e24207.	1.3	108
120	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, 369-383.	3.3	107
121	High-Density Lipoproteinâ€“Based Contrast Agents for Multimodal Imaging of Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 169-176.	1.1	106
122	Atherosclerotic Plaque Targeting Mechanism of Long-Circulating Nanoparticles Established by Multimodal Imaging. ACS Nano, 2015, 9, 1837-1847.	7.3	105
123	Synthesis of Polymerâ€“Lipid Nanoparticles for Image-Guided Delivery of Dual Modality Therapy. Bioconjugate Chemistry, 2013, 24, 1429-1434.	1.8	104
124	Single Step Reconstitution of Multifunctional High-Density Lipoprotein-Derived Nanomaterials Using Microfluidics. ACS Nano, 2013, 7, 9975-9983.	7.3	104
125	An ApoAâ€Ⅰ Mimetic Peptide Highâ€Densityâ€Lipoproteinâ€Based MRI Contrast Agent for Atherosclerotic Plaque Composition Detection. Small, 2008, 4, 1437-1444.	5.2	103
126	Iron oxide core oil-in-water emulsions as a multifunctional nanoparticle platform for tumor targeting and imaging. Biomaterials, 2009, 30, 6947-6954.	5.7	103

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127	A fluorescent, paramagnetic and PEGylated gold/silica nanoparticle for MRI, CT and fluorescence imaging. Contrast Media and Molecular Imaging, 2010, 5, 231-236.	0.4	103
128	High-Dose Atorvastatin Reduces Periodontal Inflammation. Journal of the American College of Cardiology, 2013, 62, 2382-2391.	1.2	103
129	Noninvasive In Vivo Magnetic Resonance Imaging of Experimental Coronary Artery Lesions in a Porcine Model. Circulation, 2000, 101, 2956-2961.	1.6	102
130	Atherosclerotic aortic component quantification by noninvasive magnetic resonance imaging: an in vivo study in rabbits. Journal of the American College of Cardiology, 2001, 37, 1149-1154.	1.2	102
131	Multidetector-row computed tomography and magnetic resonance imaging of atherosclerotic lesions in human ex vivo coronary arteries. Atherosclerosis, 2004, 174, 243-252.	0.4	102
132	RGD peptide functionalized and reconstituted highâ€density lipoprotein nanoparticles as a versatile and multimodal tumor targeting molecular imaging probe. FASEB Journal, 2010, 24, 1689-1699.	0.2	102
133	Oral AGE restriction ameliorates insulin resistance in obese individuals with the metabolic syndrome: a randomised controlled trial. Diabetologia, 2016, 59, 2181-2192.	2.9	102
134	Vascular disease in cocaine addiction. Atherosclerosis, 2017, 262, 154-162.	0.4	101
135	Trained Immunity-Promoting Nanobiologic Therapy Suppresses Tumor Growth and Potentiates Checkpoint Inhibition. Cell, 2020, 183, 786-801.e19.	13.5	101
136	Annexin A5-Functionalized Bimodal Nanoparticles for MRI and Fluorescence Imaging of Atherosclerotic Plaques. Bioconjugate Chemistry, 2010, 21, 1794-1803.	1.8	96
137	High resolution ex vivo magnetic resonance imaging of in situ coronary and aortic atherosclerotic plaque in a porcine model. Atherosclerosis, 2000, 150, 321-329.	0.4	95
138	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.	3.3	95
139	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.	1.0	95
140	Nanoreporter PET predicts the efficacy of anti-cancer nanotherapy. Nature Communications, 2016, 7, 11838.	5.8	94
141	Efficacy and safety assessment of a TRAF6-targeted nanoimmunotherapy in atherosclerotic mice and non-human primates. Nature Biomedical Engineering, 2018, 2, 279-292.	11.6	94
142	Use of Physiological Data From a Wearable Device to Identify SARS-CoV-2 Infection and Symptoms and Predict COVID-19 Diagnosis: Observational Study. Journal of Medical Internet Research, 2021, 23, e26107.	2.1	91
143	Nonpharmacological Lipoprotein Apheresis Reduces Arterial Inflammation inÂFamilial Hypercholesterolemia. Journal of the American College of Cardiology, 2014, 64, 1418-1426.	1.2	90
144	Noninvasive Assessment of Hypoxia in Rabbit Advanced Atherosclerosis Using ¹⁸ F-fluoromisonidazole Positron Emission Tomographic Imaging. Circulation: Cardiovascular Imaging, 2014, 7, 312-320.	1.3	90

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145	Coronary Artery PET/MR Imaging. JACC: Cardiovascular Imaging, 2017, 10, 1103-1112.	2.3	90
146	Disentangling the Links Between Psychosocial Stress and Cardiovascular Disease. Circulation: Cardiovascular Imaging, 2020, 13, e010931.	1.3	90
147	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, 1714-1719.	1.1	88
148	Incorporation of an apoEâ€derived lipopeptide in highâ€density lipoprotein MRI contrast agents for enhanced imaging of macrophages in atherosclerosis. Contrast Media and Molecular Imaging, 2008, 3, 233-242.	0.4	87
149	Global cardiac function using fast breath-hold MRI: Validation of new acquisition and analysis techniques. Magnetic Resonance in Medicine, 1997, 37, 683-692.	1.9	86
150	Clearance of Iron Oxide Particles in Rat Liver. Investigative Radiology, 2006, 41, 560-571.	3.5	85
151	A Modular Labeling Strategy for In Vivo PET and Near-Infrared Fluorescence Imaging of Nanoparticle Tumor Targeting. Journal of Nuclear Medicine, 2014, 55, 1706-1711.	2.8	85
152	A neurobiological mechanism linking transportation noise to cardiovascular disease in humans. European Heart Journal, 2020, 41, 772-782.	1.0	84
153	Imaging Atherosclerosis and Vulnerable Plaque. Journal of Nuclear Medicine, 2010, 51, 51S-65S.	2.8	83
154	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, 439-446.	2.3	82
155	The Progression and Early detection of Subclinical Atherosclerosis (PESA) study: Rationale and design. American Heart Journal, 2013, 166, 990-998.	1.2	82
156	Brain Imaging Changes Associated WithÂRisk Factors for Cardiovascular and Cerebrovascular Disease in AsymptomaticÂPatients. JACC: Cardiovascular Imaging, 2014, 7, 1039-1053.	2.3	82
157	Magnetic resonance imaging of atherosclerosis by targeting extracellular matrix deposition with Gadofluorine M. Contrast Media and Molecular Imaging, 2007, 2, 120-129.	0.4	80
158	Macrophage-Specific Lipid-Based Nanoparticles Improve Cardiac Magnetic Resonance Detection and Characterization of Human Atherosclerosis. JACC: Cardiovascular Imaging, 2009, 2, 637-647.	2.3	80
159	Atherosclerosis and Matrix Metalloproteinases: Experimental Molecular MR Imaging in Vivo. Radiology, 2009, 251, 429-438.	3.6	79
160	InÂVivo PET Imaging of HDL in MultipleÂAtherosclerosisÂModels. JACC: Cardiovascular Imaging, 2016, 9, 950-961.	2.3	78
161	Gold Nanocrystal Labeling Allows Low-Density Lipoprotein Imaging from the Subcellular to Macroscopic Level. ACS Nano, 2013, 7, 9761-9770.	7.3	77
162	Engineering of lipid-coated PLGA nanoparticles with a tunable payload of diagnostically active nanocrystals for medical imaging. Chemical Communications, 2012, 48, 5835.	2.2	76

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163	Arterial Effects of Canakinumab in PatientsÂWith Atherosclerosis and TypeÂ2ÂDiabetes or Glucose Intolerance. Journal of the American College of Cardiology, 2016, 68, 1769-1780.	1.2	75
164	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, 2522-2530.	1.2	74
165	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, 86-88.	1.2	74
166	Pioglitazone Modulates Vascular Inflammation in Atherosclerotic Rabbits. JACC: Cardiovascular Imaging, 2011, 4, 1100-1109.	2.3	73
167	Quantification of human atherosclerotic plaques using spatially enhanced cluster analysis of multicontrast-weighted magnetic resonance images. Magnetic Resonance in Medicine, 2004, 52, 515-523.	1.9	72
168	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, 137-143.	1.2	72
169	Fibrin-targeted contrast agent for improvement of in vivo acute thrombus detection with magnetic resonance imaging. Atherosclerosis, 2005, 182, 79-85.	0.4	72
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