

# Matthias Nahrendorf

## List of Publications by Citations

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216  
papers

26,782  
citations

89  
h-index

162  
g-index

255  
ext. papers

32,093  
ext. citations

15.3  
avg, IF

7.2  
L-index

#	Paper	IF	Citations
216	The healing myocardium sequentially mobilizes two monocyte subsets with divergent and complementary functions. <i>Journal of Experimental Medicine</i> , <b>2007</b> , 204, 3037-47	16.6	1568
215	Identification of splenic reservoir monocytes and their deployment to inflammatory sites. <i>Science</i> , <b>2009</b> , 325, 612-6	33.3	1481
214	Molecularly self-assembled nucleic acid nanoparticles for targeted in vivo siRNA delivery. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 389-93	28.7	836
213	Myocardial infarction accelerates atherosclerosis. <i>Nature</i> , <b>2012</b> , 487, 325-9	50.4	674
212	Local proliferation dominates lesional macrophage accumulation in atherosclerosis. <i>Nature Medicine</i> , <b>2013</b> , 19, 1166-72	50.5	669
211	Leukocyte behavior in atherosclerosis, myocardial infarction, and heart failure. <i>Science</i> , <b>2013</b> , 339, 161-6	33.3	665
210	Therapeutic siRNA silencing in inflammatory monocytes in mice. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 1005-10	14.5	594
209	Imaging macrophages with nanoparticles. <i>Nature Materials</i> , <b>2014</b> , 13, 125-38	27	586
208	Monocytes: protagonists of infarct inflammation and repair after myocardial infarction. <i>Circulation</i> , <b>2010</b> , 121, 2437-45	16.7	546
207	Noninvasive vascular cell adhesion molecule-1 imaging identifies inflammatory activation of cells in atherosclerosis. <i>Circulation</i> , <b>2006</b> , 114, 1504-11	16.7	508
206	Nanoparticle PET-CT imaging of macrophages in inflammatory atherosclerosis. <i>Circulation</i> , <b>2008</b> , 117, 379-87	16.7	460
205	Origins of tumor-associated macrophages and neutrophils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 2491-6	11.5	445
204	Macrophages Facilitate Electrical Conduction in the Heart. <i>Cell</i> , <b>2017</b> , 169, 510-522.e20	56.2	438
203	Modified mRNA directs the fate of heart progenitor cells and induces vascular regeneration after myocardial infarction. <i>Nature Biotechnology</i> , <b>2013</b> , 31, 898-907	44.5	418
202	Chronic variable stress activates hematopoietic stem cells. <i>Nature Medicine</i> , <b>2014</b> , 20, 754-758	50.5	408
201	In vivo endothelial siRNA delivery using polymeric nanoparticles with low molecular weight. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 648-655	28.7	385
200	Rapid monocyte kinetics in acute myocardial infarction are sustained by extramedullary monocytopoiesis. <i>Journal of Experimental Medicine</i> , <b>2012</b> , 209, 123-37	16.6	342

199	Ly-6Chigh monocytes depend on Nr4a1 to balance both inflammatory and reparative phases in the infarcted myocardium. <i>Circulation Research</i> , <b>2014</b> , 114, 1611-22	15.7	333
198	Multimodality molecular imaging identifies proteolytic and osteogenic activities in early aortic valve disease. <i>Circulation</i> , <b>2007</b> , 115, 377-86	16.7	325
197	Extramedullary hematopoiesis generates Ly-6C(high) monocytes that infiltrate atherosclerotic lesions. <i>Circulation</i> , <b>2012</b> , 125, 364-74	16.7	321
196	Differential contribution of monocytes to heart macrophages in steady-state and after myocardial infarction. <i>Circulation Research</i> , <b>2014</b> , 115, 284-95	15.7	305
195	Innate response activator B cells protect against microbial sepsis. <i>Science</i> , <b>2012</b> , 335, 597-601	33.3	291
194	Relation between resting amygdalar activity and cardiovascular events: a longitudinal and cohort study. <i>Lancet, The</i> , <b>2017</b> , 389, 834-845	40	269
193	A statin-loaded reconstituted high-density lipoprotein nanoparticle inhibits atherosclerotic plaque inflammation. <i>Nature Communications</i> , <b>2014</b> , 5, 3065	17.4	269
192	PET/MRI of inflammation in myocardial infarction. <i>Journal of the American College of Cardiology</i> , <b>2012</b> , 59, 153-63	15.1	245
191	Cardioimmunology: the immune system in cardiac homeostasis and disease. <i>Nature Reviews Immunology</i> , <b>2018</b> , 18, 733-744	36.5	240
190	Impaired infarct healing in atherosclerotic mice with Ly-6C(hi) monocytosis. <i>Journal of the American College of Cardiology</i> , <b>2010</b> , 55, 1629-38	15.1	238
189	The human heart contains distinct macrophage subsets with divergent origins and functions. <i>Nature Medicine</i> , <b>2018</b> , 24, 1234-1245	50.5	229
188	Monocyte and macrophage heterogeneity in the heart. <i>Circulation Research</i> , <b>2013</b> , 112, 1624-33	15.7	226
187	On-demand erythrocyte disposal and iron recycling requires transient macrophages in the liver. <i>Nature Medicine</i> , <b>2016</b> , 22, 945-51	50.5	224
186	An acute immune response underlies the benefit of cardiac stem cell therapy. <i>Nature</i> , <b>2020</b> , 577, 405-409	30.4	222
185	Magnetic resonance imaging of cardiomyocyte apoptosis with a novel magneto-optical nanoparticle. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 718-24	4.4	213
184	Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure. <i>Circulation Research</i> , <b>2016</b> , 119, 853-64	15.7	210
183	IRF3 and type I interferons fuel a fatal response to myocardial infarction. <i>Nature Medicine</i> , <b>2017</b> , 23, 1481-1487	30.5	208
182	<sup>18</sup> F labeled nanoparticles for in vivo PET-CT imaging. <i>Bioconjugate Chemistry</i> , <b>2009</b> , 20, 397-401	6.3	208

181	Monocyte-directed RNAi targeting CCR2 improves infarct healing in atherosclerosis-prone mice. <i>Circulation</i> , <b>2013</b> , 127, 2038-46	16.7	200
180	Abandoning M1/M2 for a Network Model of Macrophage Function. <i>Circulation Research</i> , <b>2016</b> , 119, 414-7	15.7	191
179	Leukocytes Link Local and Systemic Inflammation in Ischemic Cardiovascular Disease: An Expanded "Cardiovascular Continuum". <i>Journal of the American College of Cardiology</i> , <b>2016</b> , 67, 1091-1103	15.1	191
178	Cardiac macrophages and their role in ischaemic heart disease. <i>Cardiovascular Research</i> , <b>2014</b> , 102, 240-8	9.9	191
177	Hybrid PET-optical imaging using targeted probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 7910-5	11.5	191
176	In vivo silencing of the transcription factor IRF5 reprograms the macrophage phenotype and improves infarct healing. <i>Journal of the American College of Cardiology</i> , <b>2014</b> , 63, 1556-66	15.1	187
175	Magnetic nanoparticles for MR imaging: agents, techniques and cardiovascular applications. <i>Basic Research in Cardiology</i> , <b>2008</b> , 103, 122-30	11.8	186
174	Interleukin-3 amplifies acute inflammation and is a potential therapeutic target in sepsis. <i>Science</i> , <b>2015</b> , 347, 1260-5	33.3	183
173	Cardiac macrophages promote diastolic dysfunction. <i>Journal of Experimental Medicine</i> , <b>2018</b> , 215, 423-44	6.6	182
172	Osteoblasts remotely supply lung tumors with cancer-promoting SiglecF neutrophils. <i>Science</i> , <b>2017</b> , 358,	33.3	172
171	18F-4V for PET-CT imaging of VCAM-1 expression in atherosclerosis. <i>JACC: Cardiovascular Imaging</i> , <b>2009</b> , 2, 1213-22	8.4	166
170	Angiotensin-converting enzyme inhibition prevents the release of monocytes from their splenic reservoir in mice with myocardial infarction. <i>Circulation Research</i> , <b>2010</b> , 107, 1364-73	15.7	164
169	Fluorescence tomography and magnetic resonance imaging of myocardial macrophage infiltration in infarcted myocardium in vivo. <i>Circulation</i> , <b>2007</b> , 115, 1384-91	16.7	163
168	Monocyte and macrophage contributions to cardiac remodeling. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2016</b> , 93, 149-55	5.8	161
167	Activatable magnetic resonance imaging agent reports myeloperoxidase activity in healing infarcts and noninvasively detects the antiinflammatory effects of atorvastatin on ischemia-reperfusion injury. <i>Circulation</i> , <b>2008</b> , 117, 1153-60	16.7	158
166	Targeting Interleukin-1 Reduces Leukocyte Production After Acute Myocardial Infarction. <i>Circulation</i> , <b>2015</b> , 132, 1880-90	16.7	154
165	Monocyte subset accumulation in the human heart following acute myocardial infarction and the role of the spleen as monocyte reservoir. <i>European Heart Journal</i> , <b>2014</b> , 35, 376-85	9.5	152
164	Oxazine conjugated nanoparticle detects in vivo hypochlorous acid and peroxynitrite generation. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15739-44	16.4	151

163	Hybrid in vivo FMT-CT imaging of protease activity in atherosclerosis with customized nanosensors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2009</b> , 29, 1444-51	9.4	150
162	Sleep modulates haematopoiesis and protects against atherosclerosis. <i>Nature</i> , <b>2019</b> , 566, 383-387	50.4	149
161	Splenic metabolic activity predicts risk of future cardiovascular events: demonstration of a cardiosplenic axis in humans. <i>JACC: Cardiovascular Imaging</i> , <b>2015</b> , 8, 121-30	8.4	146
160	Direct vascular channels connect skull bone marrow and the brain surface enabling myeloid cell migration. <i>Nature Neuroscience</i> , <b>2018</b> , 21, 1209-1217	25.5	139
159	Inhibiting macrophage proliferation suppresses atherosclerotic plaque inflammation. <i>Science Advances</i> , <b>2015</b> , 1,	14.3	137
158	Dual channel optical tomographic imaging of leukocyte recruitment and protease activity in the healing myocardial infarct. <i>Circulation Research</i> , <b>2007</b> , 100, 1218-25	15.7	132
157	Imaging and nanomedicine in inflammatory atherosclerosis. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 239sr1.5	11.5	131
156	Myocardial Infarction Activates CCR2(+) Hematopoietic Stem and Progenitor Cells. <i>Cell Stem Cell</i> , <b>2015</b> , 16, 477-87	18	129
155	Angiotensin II drives the production of tumor-promoting macrophages. <i>Immunity</i> , <b>2013</b> , 38, 296-308	32.3	129
154	Ischemic stroke activates hematopoietic bone marrow stem cells. <i>Circulation Research</i> , <b>2015</b> , 116, 407-17	15.7	126
153	In vivo detection of Staphylococcus aureus endocarditis by targeting pathogen-specific prothrombin activation. <i>Nature Medicine</i> , <b>2011</b> , 17, 1142-6	50.5	125
152	Monocytes in myocardial infarction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2015</b> , 35, 1066-70	9.4	124
151	RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 342ra80	17.5	123
150	Myeloid cell contributions to cardiovascular health and disease. <i>Nature Medicine</i> , <b>2018</b> , 24, 711-720	50.5	122
149	Polymeric nanoparticle PET/MR imaging allows macrophage detection in atherosclerotic plaques. <i>Circulation Research</i> , <b>2013</b> , 112, 755-61	15.7	122
148	Endoscopic time-lapse imaging of immune cells in infarcted mouse hearts. <i>Circulation Research</i> , <b>2013</b> , 112, 891-9	15.7	122
147	Molecular magnetic resonance imaging in cardiovascular medicine. <i>Circulation</i> , <b>2007</b> , 115, 2076-86	16.7	122
146	Monocytes/macrophages prevent healing defects and left ventricular thrombus formation after myocardial infarction. <i>FASEB Journal</i> , <b>2013</b> , 27, 871-81	0.9	121

145	Resident and Monocyte-Derived Macrophages in Cardiovascular Disease. <i>Circulation Research</i> , <b>2018</b> , 122, 113-127	15.7	120
144	Detection of macrophages in aortic aneurysms by nanoparticle positron emission tomography-computed tomography. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2011</b> , 31, 750-7	9.4	120
143	Multimodality cardiovascular molecular imaging, Part II. <i>Circulation: Cardiovascular Imaging</i> , <b>2009</b> , 2, 56-70	9.9	119
142	Factor XIII deficiency causes cardiac rupture, impairs wound healing, and aggravates cardiac remodeling in mice with myocardial infarction. <i>Circulation</i> , <b>2006</b> , 113, 1196-202	16.7	118
141	The infarcted myocardium solicits GM-CSF for the detrimental oversupply of inflammatory leukocytes. <i>Journal of Experimental Medicine</i> , <b>2017</b> , 214, 3293-3310	16.6	114
140	Cellular Imaging of Inflammation in Atherosclerosis Using Magnetofluorescent Nanomaterials. <i>Molecular Imaging</i> , <b>2006</b> , 5, 7290.2006.00009	3.7	112
139	Macrophages retain hematopoietic stem cells in the spleen via VCAM-1. <i>Journal of Experimental Medicine</i> , <b>2015</b> , 212, 497-512	16.6	104
138	Real-time in vivo imaging of the beating mouse heart at microscopic resolution. <i>Nature Communications</i> , <b>2012</b> , 3, 1054	17.4	104
137	Pleural innate response activator B cells protect against pneumonia via a GM-CSF-IgM axis. <i>Journal of Experimental Medicine</i> , <b>2014</b> , 211, 1243-56	16.6	101
136	<sup>89</sup> Zr-labeled dextran nanoparticles allow in vivo macrophage imaging. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 2383-9	6.3	100
135	Systemic RNAi-mediated Gene Silencing in Nonhuman Primate and Rodent Myeloid Cells. <i>Molecular Therapy - Nucleic Acids</i> , <b>2012</b> , 1, e4	10.7	100
134	Polyglucose nanoparticles with renal elimination and macrophage avidity facilitate PET imaging in ischaemic heart disease. <i>Nature Communications</i> , <b>2017</b> , 8, 14064	17.4	95
133	Inhibiting Inflammation with Myeloid Cell-Specific Nanobiologics Promotes Organ Transplant Acceptance. <i>Immunity</i> , <b>2018</b> , 49, 819-828.e6	32.3	95
132	Flow Perturbation Mediates Neutrophil Recruitment and Potentiates Endothelial Injury via TLR2 in Mice: Implications for Superficial Erosion. <i>Circulation Research</i> , <b>2017</b> , 121, 31-42	15.7	94
131	Advancing biomedical imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14424-8	11.5	90
130	Exercise reduces inflammatory cell production and cardiovascular inflammation via instruction of hematopoietic progenitor cells. <i>Nature Medicine</i> , <b>2019</b> , 25, 1761-1771	50.5	90
129	Behavior of endogenous tumor-associated macrophages assessed in vivo using a functionalized nanoparticle. <i>Neoplasia</i> , <b>2009</b> , 11, 459-68, 2 p following 468	6.4	90
128	Molecular imaging of coronary atherosclerosis and myocardial infarction: considerations for the bench and perspectives for the clinic. <i>Circulation Research</i> , <b>2011</b> , 108, 593-606	15.7	89

127	IGF2BP2/IMP2-Deficient mice resist obesity through enhanced translation of Ucp1 mRNA and Other mRNAs encoding mitochondrial proteins. <i>Cell Metabolism</i> , <b>2015</b> , 21, 609-21	24.6	87
126	Multimodality cardiovascular molecular imaging, part I. <i>Circulation: Cardiovascular Imaging</i> , <b>2008</b> , 1, 244-56	3.9	87
125	Direct Imaging of Cerebral Thromboemboli Using Computed Tomography and Fibrin-targeted Gold Nanoparticles. <i>Theranostics</i> , <b>2015</b> , 5, 1098-114	12.1	84
124	Prospective Evaluation of 18F-Fluorodeoxyglucose Uptake in Postischemic Myocardium by Simultaneous Positron Emission Tomography/Magnetic Resonance Imaging as a Prognostic Marker of Functional Outcome. <i>Circulation: Cardiovascular Imaging</i> , <b>2016</b> , 9, e004316	3.9	84
123	Quantitative Imaging of Tumor-Associated Macrophages and Their Response to Therapy Using Cu-Labeled Macrin. <i>ACS Nano</i> , <b>2018</b> , 12, 12015-12029	16.7	83
122	Molecular MRI of cardiomyocyte apoptosis with simultaneous delayed-enhancement MRI distinguishes apoptotic and necrotic myocytes in vivo: potential for midmyocardial salvage in acute ischemia. <i>Circulation: Cardiovascular Imaging</i> , <b>2009</b> , 2, 460-7	3.9	82
121	Myeloperoxidase-rich Ly-6C+ myeloid cells infiltrate allografts and contribute to an imaging signature of organ rejection in mice. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 2627-34	15.9	77
120	Immune cell screening of a nanoparticle library improves atherosclerosis therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E6731-E6740	11.5	75
119	Imaging of the unstable plaque: how far have we got?. <i>European Heart Journal</i> , <b>2009</b> , 30, 2566-74	9.5	73
118	Monocytes and macrophages as nanomedicinal targets for improved diagnosis and treatment of disease. <i>Expert Review of Molecular Diagnostics</i> , <b>2013</b> , 13, 567-80	3.8	72
117	Lifestyle effects on hematopoiesis and atherosclerosis. <i>Circulation Research</i> , <b>2015</b> , 116, 884-94	15.7	71
116	Silencing of CCR2 in myocarditis. <i>European Heart Journal</i> , <b>2015</b> , 36, 1478-88	9.5	70
115	Molecular imaging of innate immune cell function in transplant rejection. <i>Circulation</i> , <b>2009</b> , 119, 1925-32	16.7	70
114	Immunology. Neutrophil-macrophage communication in inflammation and atherosclerosis. <i>Science</i> , <b>2015</b> , 349, 237-8	33.3	66
113	Serial cine-magnetic resonance imaging of left ventricular remodeling after myocardial infarction in rats. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 14, 547-55	5.6	66
112	Pro-Angiogenic Macrophage Phenotype to Promote Myocardial Repair. <i>Journal of the American College of Cardiology</i> , <b>2019</b> , 73, 2990-3002	15.1	63
111	Stress-Induced Changes in Bone Marrow Stromal Cell Populations Revealed through Single-Cell Protein Expression Mapping. <i>Cell Stem Cell</i> , <b>2019</b> , 25, 570-583.e7	18	63
110	Cellular imaging of inflammation in atherosclerosis using magnetofluorescent nanomaterials. <i>Molecular Imaging</i> , <b>2006</b> , 5, 85-92	3.7	63

109	Stage-dependent differential effects of interleukin-1 isoforms on experimental atherosclerosis. <i>European Heart Journal</i> , <b>2019</b> , 40, 2482-2491	9.5	62
108	Transglutaminase activity in acute infarcts predicts healing outcome and left ventricular remodelling: implications for FXIII therapy and antithrombin use in myocardial infarction. <i>European Heart Journal</i> , <b>2008</b> , 29, 445-54	9.5	62
107	Efficacy and safety assessment of a TRAF6-targeted nanoimmunotherapy in atherosclerotic mice and non-human primates. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 279-292	19	60
106	Tissue-Specific Macrophage Responses to Remote Injury Impact the Outcome of Subsequent Local Immune Challenge. <i>Immunity</i> , <b>2019</b> , 51, 899-914.e7	32.3	60
105	Stress-Associated Neurobiological Pathway Linking Socioeconomic Disparities to Cardiovascular Disease. <i>Journal of the American College of Cardiology</i> , <b>2019</b> , 73, 3243-3255	15.1	55
104	Increased microvascularization and vessel permeability associate with active inflammation in human atheromata. <i>Circulation: Cardiovascular Imaging</i> , <b>2014</b> , 7, 920-9	3.9	55
103	High-resolution imaging of murine myocardial infarction with delayed-enhancement cine micro-CT. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2007</b> , 292, H3172-8	5.2	53
102	Increased haematopoietic activity in patients with atherosclerosis. <i>European Heart Journal</i> , <b>2017</b> , 38, 425-432	9.5	53
101	Imaging Macrophage and Hematopoietic Progenitor Proliferation in Atherosclerosis. <i>Circulation Research</i> , <b>2015</b> , 117, 835-45	15.7	52
100	Healing and adverse remodelling after acute myocardial infarction: role of the cellular immune response. <i>Heart</i> , <b>2012</b> , 98, 1384-90	5.1	52
99	Myeloperoxidase Inhibition Improves Ventricular Function and Remodeling After Experimental Myocardial Infarction. <i>JACC Basic To Translational Science</i> , <b>2016</b> , 1, 633-643	8.7	50
98	Innate immune cells in ischaemic heart disease: does myocardial infarction beget myocardial infarction?. <i>European Heart Journal</i> , <b>2016</b> , 37, 868-72	9.5	49
97	Imaging systemic inflammatory networks in ischemic heart disease. <i>Journal of the American College of Cardiology</i> , <b>2015</b> , 65, 1583-91	15.1	49
96	Increased stem cell proliferation in atherosclerosis accelerates clonal hematopoiesis. <i>Cell</i> , <b>2021</b> , 184, 1348-1361.e22	56.2	49
95	The journey from stem cell to macrophage. <i>Annals of the New York Academy of Sciences</i> , <b>2014</b> , 1319, 1-18.5	18.5	48
94	Molecular MRI detects low levels of cardiomyocyte apoptosis in a transgenic model of chronic heart failure. <i>Circulation: Cardiovascular Imaging</i> , <b>2009</b> , 2, 468-75	3.9	48
93	Cardiovascular molecular imaging: the road ahead. <i>Journal of Nuclear Medicine</i> , <b>2012</b> , 53, 673-6	8.9	47
92	Monocyte subset dynamics in human atherosclerosis can be profiled with magnetic nano-sensors. <i>PLoS ONE</i> , <b>2009</b> , 4, e5663	3.7	45



91	Development and Function of Arterial and Cardiac Macrophages. <i>Trends in Immunology</i> , <b>2016</b> , 37, 32-40	14.4	43
90	Ibrutinib-Mediated Atrial Fibrillation Attributable to Inhibition of C-Terminal Src Kinase. <i>Circulation</i> , <b>2020</b> , 142, 2443-2455	16.7	43
89	Assessment of Cardiovascular Apoptosis in the Isolated Rat Heart by Magnetic Resonance Molecular Imaging. <i>Molecular Imaging</i> , <b>2006</b> , 5, 7290.2006.00012	3.7	42
88	Astrocytic interleukin-3 programs microglia and limits Alzheimer's disease. <i>Nature</i> , <b>2021</b> , 595, 701-706	50.4	41
87	Regulation and consequences of monocytosis. <i>Immunological Reviews</i> , <b>2014</b> , 262, 167-78	11.3	39
86	The innate immune system after ischemic injury: lessons to be learned from the heart and brain. <i>JAMA Neurology</i> , <b>2014</b> , 71, 233-6	17.2	39
85	Macrophages and Cardiovascular Health. <i>Physiological Reviews</i> , <b>2018</b> , 98, 2523-2569	47.9	39
84	Heart Failure With Preserved Ejection Fraction Induces Beiging in Adipose Tissue. <i>Circulation: Heart Failure</i> , <b>2016</b> , 9, e002724	7.6	38
83	Late Na(+) current and protracted electrical recovery are critical determinants of the aging myopathy. <i>Nature Communications</i> , <b>2015</b> , 6, 8803	17.4	37
82	Hematopoiesis and Cardiovascular Disease. <i>Circulation Research</i> , <b>2020</b> , 126, 1061-1085	15.7	37
81	The cardiac microenvironment uses non-canonical WNT signaling to activate monocytes after myocardial infarction. <i>EMBO Molecular Medicine</i> , <b>2017</b> , 9, 1279-1293	12	36
80	Report of the National Heart, Lung, and Blood Institute working group on the translation of cardiovascular molecular imaging. <i>Circulation</i> , <b>2011</b> , 123, 2157-63	16.7	36
79	Monocyte and haematopoietic progenitor reprogramming as common mechanism underlying chronic inflammatory and cardiovascular diseases. <i>European Heart Journal</i> , <b>2018</b> , 39, 3521-3527	9.5	34
78	Direct Thrombus Imaging in Stroke. <i>Journal of Stroke</i> , <b>2016</b> , 18, 286-296	5.6	34
77	Modifiable Cardiovascular Risk, Hematopoiesis, and Innate Immunity. <i>Circulation Research</i> , <b>2020</b> , 126, 1242-1259	15.7	34
76	Imaging the Vascular Bone Marrow Niche During Inflammatory Stress. <i>Circulation Research</i> , <b>2018</b> , 123, 415-427	15.7	31
75	Imaging-assisted nanoimmunotherapy for atherosclerosis in multiple species. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	31
74	Applying nanomedicine in maladaptive inflammation and angiogenesis. <i>Advanced Drug Delivery Reviews</i> , <b>2017</b> , 119, 143-158	18.5	29

73	Nanoparticle-encapsulated siRNAs for gene silencing in the haematopoietic stem-cell niche. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 1076-1089	19	29
72	Selective factor XIIIa inhibition attenuates silent brain ischemia: application of molecular imaging targeting coagulation pathway. <i>JACC: Cardiovascular Imaging</i> , <b>2012</b> , 5, 1127-38	8.4	26
71	Nanoparticle PET-CT detects rejection and immunomodulation in cardiac allografts. <i>Circulation: Cardiovascular Imaging</i> , <b>2013</b> , 6, 568-73	3.9	26
70	Mechanisms of Myeloid Cell Modulation of Atherosclerosis. <i>Microbiology Spectrum</i> , <b>2016</b> , 4,	8.9	26
69	Glucocorticoids Regulate Bone Marrow B Lymphopoiesis After Stroke. <i>Circulation Research</i> , <b>2019</b> , 124, 1372-1385	15.7	26
68	Nanoimmunotherapy to treat ischaemic heart disease. <i>Nature Reviews Cardiology</i> , <b>2019</b> , 16, 21-32	14.8	26
67	CCR2 expression on circulating monocytes is associated with arterial wall inflammation assessed by 18F-FDG PET/CT in patients at risk for cardiovascular disease. <i>Cardiovascular Research</i> , <b>2018</b> , 114, 468-475	8.9	25
66	Multimodal iron oxide nanoparticles for hybrid biomedical imaging. <i>NMR in Biomedicine</i> , <b>2013</b> , 26, 756-65	14.4	25
65	Extra-Axial Inflammatory Signal in Parameninges in Migraine with Visual Aura. <i>Annals of Neurology</i> , <b>2020</b> , 87, 939-949	9.4	24
64	Vasculitis: molecular imaging by targeting the inflammatory enzyme myeloperoxidase. <i>Radiology</i> , <b>2012</b> , 262, 181-90	20.5	22
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- 1 Response by Nahrendorf to Letter Regarding Article, "Bone Marrow Endothelial Cells Regulate Myelopoiesis in Diabetes Mellitus". *Circulation*, **2021**, 143, e7-e8 16.7