

Matthias Nahrendorf

List of Publications by Year in Descending Order

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Version: 2024-04-23

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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.

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	Bone marrow endothelial dysfunction promotes myeloid cell expansion in cardiovascular disease 2022 , 1, 28-44		4
215	B lymphocyte-derived acetylcholine limits steady-state and emergency hematopoiesis.. <i>Nature Immunology</i> , 2022 , 23, 605-618	19.1	6
214	Cerebrospinal fluid can exit into the skull bone marrow and instruct cranial hematopoiesis in mice with bacterial meningitis.. <i>Nature Neuroscience</i> , 2022 ,	25.5	4
213	Immune cells in cardiac homeostasis and disease: emerging insights from novel technologies.. <i>European Heart Journal</i> , 2021 ,	9.5	7
212	Rigidity of Cell Fate and Function Among Monocytes. <i>Blood</i> , 2021 , 138, 2057-2057	2.2	
211	Spontaneous Degenerative Aortic Valve Disease in New Zealand Obese Mice. <i>Journal of the American Heart Association</i> , 2021 , 10, e023131	6	1
210	Increased stem cell proliferation in atherosclerosis accelerates clonal hematopoiesis. <i>Cell</i> , 2021 , 184, 1348-1361.e22	56.2	49
209	Prosaposin mediates inflammation in atherosclerosis. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	7
208	Corticosterone inhibits GAS6 to govern hair follicle stem-cell quiescence. <i>Nature</i> , 2021 , 592, 428-432	50.4	14
207	Infectious and lifestyle modifiers of immunity and host resilience. <i>Immunity</i> , 2021 , 54, 1110-1122	32.3	2
206	Acute mental stress drives vascular inflammation and promotes plaque destabilization in mouse atherosclerosis. <i>European Heart Journal</i> , 2021 , 42, 4077-4088	9.5	16
205	Astrocytic interleukin-3 programs microglia and limits Alzheimer's disease. <i>Nature</i> , 2021 , 595, 701-706	50.4	41
204	Short-Term Cessation of Dabigatran Causes a Paradoxical Prothrombotic State. <i>Annals of Neurology</i> , 2021 , 89, 444-458	9.4	3
203	Electroimmunology and cardiac arrhythmia. <i>Nature Reviews Cardiology</i> , 2021 , 18, 547-564	14.8	5
202	Impact of cholesterol on proinflammatory monocyte production by the bone marrow. <i>European Heart Journal</i> , 2021 , 42, 4309-4320	9.5	8
201	Relation of Pre-Stroke Aspirin Use With Cerebral Infarct Volume and Functional Outcomes. <i>Annals of Neurology</i> , 2021 , 90, 763-776	9.4	0
200	Chronic stress primes innate immune responses in mice and humans. <i>Cell Reports</i> , 2021 , 36, 109595	10.6	11

199	Response by Nahrendorf to Letter Regarding Article, "Bone Marrow Endothelial Cells Regulate Myelopoiesis in Diabetes Mellitus". <i>Circulation</i> , 2021 , 143, e7-e8	16.7	
198	Multimodal imaging of bacterial-host interface in mice and piglets with endocarditis. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	1
197	Reduced Nhe1 (Na-H Exchanger-1) Function Protects ApoE-Deficient Mice From Ang II (Angiotensin II)-Induced Abdominal Aortic Aneurysms. <i>Hypertension</i> , 2020 , 76, 87-100	8.5	1
196	Extra-Axial Inflammatory Signal in Parameninges in Migraine with Visual Aura. <i>Annals of Neurology</i> , 2020 , 87, 939-949	9.4	24
195	Diminished Reactive Hematopoiesis and Cardiac Inflammation in a Mouse Model of Recurrent Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 901-915	15.1	18
194	Fluorescence microscopy tensor imaging representations for large-scale dataset analysis. <i>Scientific Reports</i> , 2020 , 10, 5632	4.9	4
193	Bone Marrow Endothelial Cells Regulate Myelopoiesis in Diabetes Mellitus. <i>Circulation</i> , 2020 , 142, 244-258.	15.7	17
192	Reversing Clonal Hematopoiesis and Associated Atherosclerotic Disease By Targeted Antibody-Drug-Conjugate (ADC) Conditioning and Transplant. <i>Blood</i> , 2020 , 136, 34-35	2.2	
191	An acute immune response underlies the benefit of cardiac stem cell therapy. <i>Nature</i> , 2020 , 577, 405-409.	30.4	222
190	Imaging Cardiovascular and Lung Macrophages With the Positron Emission Tomography Sensor Cu-Macrin in Mice, Rabbits, and Pigs. <i>Circulation: Cardiovascular Imaging</i> , 2020 , 13, e010586	3.9	7
189	Nanoparticle-encapsulated siRNAs for gene silencing in the haematopoietic stem-cell niche. <i>Nature Biomedical Engineering</i> , 2020 , 4, 1076-1089	19	29
188	Ibrutinib-Mediated Atrial Fibrillation Attributable to Inhibition of C-Terminal Src Kinase. <i>Circulation</i> , 2020 , 142, 2443-2455	16.7	43
187	Liver X receptors are required for thymic resilience and T cell output. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	10
186	Novel functions of macrophages in the heart: insights into electrical conduction, stress, and diastolic dysfunction. <i>European Heart Journal</i> , 2020 , 41, 989-994	9.5	16
185	Probing myeloid cell dynamics in ischaemic heart disease by nanotracer hot-spot imaging. <i>Nature Nanotechnology</i> , 2020 , 15, 398-405	28.7	20
184	Modifiable Cardiovascular Risk, Hematopoiesis, and Innate Immunity. <i>Circulation Research</i> , 2020 , 126, 1242-1259	15.7	34
183	Hematopoiesis and Cardiovascular Disease. <i>Circulation Research</i> , 2020 , 126, 1061-1085	15.7	37
182	Na-H exchanger 1 determines atherosclerotic lesion acidification and promotes atherogenesis. <i>Nature Communications</i> , 2019 , 10, 3978	17.4	11

181	Looking back and thinking forwards - 15 years of cardiology and cardiovascular research. <i>Nature Reviews Cardiology</i> , 2019 , 16, 651-660	14.8	7
180	Self-reactive CD4 IL-3 T cells amplify autoimmune inflammation in myocarditis by inciting monocyte chemotaxis. <i>Journal of Experimental Medicine</i> , 2019 , 216, 369-383	16.6	17
179	Stage-dependent differential effects of interleukin-1 isoforms on experimental atherosclerosis. <i>European Heart Journal</i> , 2019 , 40, 2482-2491	9.5	62
178	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
177	Interferon- γ regulates cardiac myeloid cells in myocardial infarction. <i>Cardiovascular Research</i> , 2019 , 115, 1815-1816	9.9	5
176	Pro-Angiogenic Macrophage Phenotype to Promote Myocardial Repair. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 2990-3002	15.1	63
175	Imaging-assisted nanoimmunotherapy for atherosclerosis in multiple species. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	31
174	Stress-Induced Changes in Bone Marrow Stromal Cell Populations Revealed through Single-Cell Protein Expression Mapping. <i>Cell Stem Cell</i> , 2019 , 25, 570-583.e7	18	63
173	Exercise reduces inflammatory cell production and cardiovascular inflammation via instruction of hematopoietic progenitor cells. <i>Nature Medicine</i> , 2019 , 25, 1761-1771	50.5	90
172	Tissue-Specific Macrophage Responses to Remote Injury Impact the Outcome of Subsequent Local Immune Challenge. <i>Immunity</i> , 2019 , 51, 899-914.e7	32.3	60
171	Functionally Distinct Subsets of Monocytes in Mouse and Human Blood. <i>Blood</i> , 2019 , 134, 438-438	2.2	
170	Glucocorticoids Regulate Bone Marrow B Lymphopoiesis After Stroke. <i>Circulation Research</i> , 2019 , 124, 1372-1385	15.7	26
169	Sleep modulates haematopoiesis and protects against atherosclerosis. <i>Nature</i> , 2019 , 566, 383-387	50.4	149
168	Nanoimmunotherapy to treat ischaemic heart disease. <i>Nature Reviews Cardiology</i> , 2019 , 16, 21-32	14.8	26
167	Reply to $\text{\textcircled{R}}$ Cardioimmunology of arrhythmias: the role of autoimmune and inflammatory cardiac channelopathies $\text{\textcircled{R}}$ <i>Nature Reviews Immunology</i> , 2019 , 19, 65	36.5	
166	Myeloid cells in cardiovascular organs. <i>Journal of Internal Medicine</i> , 2019 , 285, 491-502	10.8	9
165	A Supramolecular Nanocarrier for Delivery of Amiodarone Anti-Arrhythmic Therapy to the Heart. <i>Bioconjugate Chemistry</i> , 2019 , 30, 733-740	6.3	14
164	Efficacy and safety assessment of a TRAF6-targeted nanoimmunotherapy in atherosclerotic mice and non-human primates. <i>Nature Biomedical Engineering</i> , 2018 , 2, 279-292	19	60

163	Cardiac macrophages promote diastolic dysfunction. <i>Journal of Experimental Medicine</i> , 2018 , 215, 423-446	16.6	182
162	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> , 2018 , 114, 468-475	9.9	25
161	Resident and Monocyte-Derived Macrophages in Cardiovascular Disease. <i>Circulation Research</i> , 2018 , 122, 113-127	15.7	120
160	Monocyte and haematopoietic progenitor reprogramming as common mechanism underlying chronic inflammatory and cardiovascular diseases. <i>European Heart Journal</i> , 2018 , 39, 3521-3527	9.5	34
159	Imaging the Vascular Bone Marrow Niche During Inflammatory Stress. <i>Circulation Research</i> , 2018 , 123, 415-427	15.7	31
158	Direct vascular channels connect skull bone marrow and the brain surface enabling myeloid cell migration. <i>Nature Neuroscience</i> , 2018 , 21, 1209-1217	25.5	139
157	Some Macrophages Are Softies. <i>Immunity</i> , 2018 , 49, 199-201	32.3	
156	Myeloid cell contributions to cardiovascular health and disease. <i>Nature Medicine</i> , 2018 , 24, 711-720	50.5	122
155	The human heart contains distinct macrophage subsets with divergent origins and functions. <i>Nature Medicine</i> , 2018 , 24, 1234-1245	50.5	229
154	Inhibiting Inflammation with Myeloid Cell-Specific Nanobiologics Promotes Organ Transplant Acceptance. <i>Immunity</i> , 2018 , 49, 819-828.e6	32.3	95
153	Quantitative Imaging of Tumor-Associated Macrophages and Their Response to Therapy Using Cu-Labeled Macrin. <i>ACS Nano</i> , 2018 , 12, 12015-12029	16.7	83
152	A Miniaturized, Programmable Pacemaker for Long-Term Studies in the Mouse. <i>Circulation Research</i> , 2018 , 123, 1208-1219	15.7	8
151	Cardioimmunology: the immune system in cardiac homeostasis and disease. <i>Nature Reviews Immunology</i> , 2018 , 18, 733-744	36.5	240
150	Macrophages and Cardiovascular Health. <i>Physiological Reviews</i> , 2018 , 98, 2523-2569	47.9	39
149	Relation between resting amygdalar activity and cardiovascular events: a longitudinal and cohort study. <i>Lancet, The</i> , 2017 , 389, 834-845	40	269
148	Polyglucose nanoparticles with renal elimination and macrophage avidity facilitate PET imaging in ischaemic heart disease. <i>Nature Communications</i> , 2017 , 8, 14064	17.4	95
147	Green-channel autofluorescence imaging: A novel and sensitive technique to delineate infarcts. <i>Journal of Neuroscience Methods</i> , 2017 , 279, 22-32	3	0
146	Inflammation: Old, caffeinated, and healthy. <i>Nature Reviews Cardiology</i> , 2017 , 14, 194-196	14.8	3

145	Motion characterization scheme to minimize motion artifacts in intravital microscopy. <i>Journal of Biomedical Optics</i> , 2017 , 22, 36005	3.5	6
144	Macrophages Facilitate Electrical Conduction in the Heart. <i>Cell</i> , 2017 , 169, 510-522.e20	56.2	438
143	Flow Perturbation Mediates Neutrophil Recruitment and Potentiates Endothelial Injury via TLR2 in Mice: Implications for Superficial Erosion. <i>Circulation Research</i> , 2017 , 121, 31-42	15.7	94
142	Applying nanomedicine in maladaptive inflammation and angiogenesis. <i>Advanced Drug Delivery Reviews</i> , 2017 , 119, 143-158	18.5	29
141	Multiparametric Imaging of Organ System Interfaces. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	5
140	The infarcted myocardium solicits GM-CSF for the detrimental oversupply of inflammatory leukocytes. <i>Journal of Experimental Medicine</i> , 2017 , 214, 3293-3310	16.6	114
139	The maturation of a neural-hematopoietic-inflammatory axis in cardiovascular disease. <i>Current Opinion in Lipidology</i> , 2017 , 28, 507-512	4.4	6
138	The cardiac microenvironment uses non-canonical WNT signaling to activate monocytes after myocardial infarction. <i>EMBO Molecular Medicine</i> , 2017 , 9, 1279-1293	12	36
137	Osteoblasts remotely supply lung tumors with cancer-promoting SiglecF neutrophils. <i>Science</i> , 2017 , 358,	33.3	172
136	IRF3 and type I interferons fuel a fatal response to myocardial infarction. <i>Nature Medicine</i> , 2017 , 23, 1481-1487	35.1	208
135	Neutrophil contributions to ischaemic heart disease. <i>European Heart Journal</i> , 2017 , 38, 465-472	9.5	13
134	Increased haematopoietic activity in patients with atherosclerosis. <i>European Heart Journal</i> , 2017 , 38, 425-432	9.5	53
133	Innate immune cells in ischaemic heart disease: does myocardial infarction beget myocardial infarction?. <i>European Heart Journal</i> , 2016 , 37, 868-72	9.5	49
132	E-Selectin Inhibition Mitigates Splenic HSC Activation and Myelopoiesis in Hypercholesterolemic Mice With Myocardial Infarction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 1802-8	9.4	21
131	Abandoning M1/M2 for a Network Model of Macrophage Function. <i>Circulation Research</i> , 2016 , 119, 414-421	15.7	191
130	Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure. <i>Circulation Research</i> , 2016 , 119, 853-64	15.7	210
129	On-demand erythrocyte disposal and iron recycling requires transient macrophages in the liver. <i>Nature Medicine</i> , 2016 , 22, 945-51	50.5	224
128	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> , 2016 , 113, E6731-E6740	11.5	75

127	RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction. <i>Science Translational Medicine</i> , 2016 , 8, 342ra80	17.5	123
126	Complete genome of <i>Staphylococcus aureus</i> Tager 104 provides evidence of its relation to modern systemic hospital-acquired strains. <i>BMC Genomics</i> , 2016 , 17, 179	4.5	3
125	Systems Biology and Noninvasive Imaging of Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, e1-8	9.4	10
124	Leukocytes Link Local and Systemic Inflammation in Ischemic Cardiovascular Disease: An Expanded "Cardiovascular Continuum". <i>Journal of the American College of Cardiology</i> , 2016 , 67, 1091-1103	15.1	191
123	Development and Function of Arterial and Cardiac Macrophages. <i>Trends in Immunology</i> , 2016 , 37, 32-40	14.4	43
122	Heart Failure With Preserved Ejection Fraction Induces Beiging in Adipose Tissue. <i>Circulation: Heart Failure</i> , 2016 , 9, e002724	7.6	38
121	Monocyte and macrophage contributions to cardiac remodeling. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 93, 149-55	5.8	161
120	Prospective Evaluation of ¹⁸ F-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> , 2016 , 9, e004316	3.9	84
119	Direct Thrombus Imaging in Stroke. <i>Journal of Stroke</i> , 2016 , 18, 286-296	5.6	34
118	Mechanisms of Myeloid Cell Modulation of Atherosclerosis. <i>Microbiology Spectrum</i> , 2016 , 4,	8.9	26
117	Myeloperoxidase Inhibition Improves Ventricular Function and Remodeling After Experimental Myocardial Infarction. <i>JACC Basic To Translational Science</i> , 2016 , 1, 633-643	8.7	50
116	Lifestyle effects on hematopoiesis and atherosclerosis. <i>Circulation Research</i> , 2015 , 116, 884-94	15.7	71
115	Interleukin-3 amplifies acute inflammation and is a potential therapeutic target in sepsis. <i>Science</i> , 2015 , 347, 1260-5	33.3	183
114	Immunology. Neutrophil-macrophage communication in inflammation and atherosclerosis. <i>Science</i> , 2015 , 349, 237-8	33.3	66
113	In Vivo Tracking of Streptococcal Infections of Subcutaneous Origin in a Murine Model. <i>Molecular Imaging and Biology</i> , 2015 , 17, 793-801	3.8	2
112	Imaging systemic inflammatory networks in ischemic heart disease. <i>Journal of the American College of Cardiology</i> , 2015 , 65, 1583-91	15.1	49
111	Myocardial Infarction Activates CCR2(+) Hematopoietic Stem and Progenitor Cells. <i>Cell Stem Cell</i> , 2015 , 16, 477-87	18	129
110	Monocytes in myocardial infarction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 1066-70	9.4	124

109	Macrophages retain hematopoietic stem cells in the spleen via VCAM-1. <i>Journal of Experimental Medicine</i> , 2015 , 212, 497-512	16.6	104
108	IGF2BP2/IMP2-Deficient mice resist obesity through enhanced translation of Ucp1 mRNA and Other mRNAs encoding mitochondrial proteins. <i>Cell Metabolism</i> , 2015 , 21, 609-21	24.6	87
107	Inhibiting macrophage proliferation suppresses atherosclerotic plaque inflammation. <i>Science Advances</i> , 2015 , 1,	14.3	137
106	Imaging Macrophage and Hematopoietic Progenitor Proliferation in Atherosclerosis. <i>Circulation Research</i> , 2015 , 117, 835-45	15.7	52
105	Lp-PLA2 Antagonizes Left Ventricular Healing After Myocardial Infarction by Impairing the Appearance of Reparative Macrophages. <i>Circulation: Heart Failure</i> , 2015 , 8, 980-7	7.6	8
104	Targeting Interleukin-1 β Reduces Leukocyte Production After Acute Myocardial Infarction. <i>Circulation</i> , 2015 , 132, 1880-90	16.7	154
103	Advancing biomedical imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14424-8	11.5	90
102	Ischemic stroke activates hematopoietic bone marrow stem cells. <i>Circulation Research</i> , 2015 , 116, 407-17	15.7	126
101	Silencing of CCR2 in myocarditis. <i>European Heart Journal</i> , 2015 , 36, 1478-88	9.5	70
100	Late Na(+) current and protracted electrical recovery are critical determinants of the aging myopathy. <i>Nature Communications</i> , 2015 , 6, 8803	17.4	37
99	Direct Imaging of Cerebral Thromboemboli Using Computed Tomography and Fibrin-targeted Gold Nanoparticles. <i>Theranostics</i> , 2015 , 5, 1098-114	12.1	84
98	Splenic metabolic activity predicts risk of future cardiovascular events: demonstration of a cardiosplenic axis in humans. <i>JACC: Cardiovascular Imaging</i> , 2015 , 8, 121-30	8.4	146
97	The journey from stem cell to macrophage. <i>Annals of the New York Academy of Sciences</i> , 2014 , 1319, 1-18	18.5	48
96	Cardiac macrophages and their role in ischaemic heart disease. <i>Cardiovascular Research</i> , 2014 , 102, 240-8	19.9	191
95	In vivo endothelial siRNA delivery using polymeric nanoparticles with low molecular weight. <i>Nature Nanotechnology</i> , 2014 , 9, 648-655	28.7	385
94	Imaging macrophages with nanoparticles. <i>Nature Materials</i> , 2014 , 13, 125-38	27	586
93	Regulation and consequences of monocytoysis. <i>Immunological Reviews</i> , 2014 , 262, 167-78	11.3	39
92	Chronic variable stress activates hematopoietic stem cells. <i>Nature Medicine</i> , 2014 , 20, 754-758	50.5	408

91	Endocarditis and molecular imaging. <i>Journal of Nuclear Cardiology</i> , 2014 , 21, 486-95	2.1	9
90	A statin-loaded reconstituted high-density lipoprotein nanoparticle inhibits atherosclerotic plaque inflammation. <i>Nature Communications</i> , 2014 , 5, 3065	17.4	269
89	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> , 2014 , 63, 1556-66	15.1	187
88	Pleural innate response activator B cells protect against pneumonia via a GM-CSF-IgM axis. <i>Journal of Experimental Medicine</i> , 2014 , 211, 1243-56	16.6	101
87	Differential contribution of monocytes to heart macrophages in steady-state and after myocardial infarction. <i>Circulation Research</i> , 2014 , 115, 284-95	15.7	305
86	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> , 2014 , 35, 376-85	9.5	152
85	Ly-6Chigh monocytes depend on Nr4a1 to balance both inflammatory and reparative phases in the infarcted myocardium. <i>Circulation Research</i> , 2014 , 114, 1611-22	15.7	333
84	Increased microvascularization and vessel permeability associate with active inflammation in human atheromata. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 920-9	3.9	55
83	Imaging and nanomedicine in inflammatory atherosclerosis. <i>Science Translational Medicine</i> , 2014 , 6, 239sr1.5	11.5	131
82	The innate immune system after ischemic injury: lessons to be learned from the heart and brain. <i>JAMA Neurology</i> , 2014 , 71, 233-6	17.2	39
81	Local proliferation dominates lesional macrophage accumulation in atherosclerosis. <i>Nature Medicine</i> , 2013 , 19, 1166-72	50.5	669
80	Modified mRNA directs the fate of heart progenitor cells and induces vascular regeneration after myocardial infarction. <i>Nature Biotechnology</i> , 2013 , 31, 898-907	44.5	418
79	Leukocyte behavior in atherosclerosis, myocardial infarction, and heart failure. <i>Science</i> , 2013 , 339, 161-6	33.3	665
78	Angiotensin II drives the production of tumor-promoting macrophages. <i>Immunity</i> , 2013 , 38, 296-308	32.3	129
77	Imaging macrophage development and fate in atherosclerosis and myocardial infarction. <i>Immunology and Cell Biology</i> , 2013 , 91, 297-303	5	17
76	Monocytes/macrophages prevent healing defects and left ventricular thrombus formation after myocardial infarction. <i>FASEB Journal</i> , 2013 , 27, 871-81	0.9	121
75	Monocyte-directed RNAi targeting CCR2 improves infarct healing in atherosclerosis-prone mice. <i>Circulation</i> , 2013 , 127, 2038-46	16.7	200
74	Monocyte and macrophage heterogeneity in the heart. <i>Circulation Research</i> , 2013 , 112, 1624-33	15.7	226

73	Polymeric nanoparticle PET/MR imaging allows macrophage detection in atherosclerotic plaques. <i>Circulation Research</i> , 2013 , 112, 755-61	15.7	122
72	Endoscopic time-lapse imaging of immune cells in infarcted mouse hearts. <i>Circulation Research</i> , 2013 , 112, 891-9	15.7	122
71	Republished: healing and adverse remodelling after acute myocardial infarction: role of the cellular immune response. <i>Postgraduate Medical Journal</i> , 2013 , 89, 52-8	2	5
70	Nanoparticle PET-CT detects rejection and immunomodulation in cardiac allografts. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 568-73	3.9	26
69	Monocytes and macrophages as nanomedicinal targets for improved diagnosis and treatment of disease. <i>Expert Review of Molecular Diagnostics</i> , 2013 , 13, 567-80	3.8	72
68	Multimodal iron oxide nanoparticles for hybrid biomedical imaging. <i>NMR in Biomedicine</i> , 2013 , 26, 756-65	4.4	25
67	Myocardial infarction accelerates atherosclerosis. <i>Nature</i> , 2012 , 487, 325-9	50.4	674
66	Real-time in vivo imaging of the beating mouse heart at microscopic resolution. <i>Nature Communications</i> , 2012 , 3, 1054	17.4	104
65	PET/MRI of inflammation in myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2012 , 59, 153-63	15.1	245
64	Selective factor XIIa inhibition attenuates silent brain ischemia: application of molecular imaging targeting coagulation pathway. <i>JACC: Cardiovascular Imaging</i> , 2012 , 5, 1127-38	8.4	26
63	Mapping molecular agents distributions in whole mice hearts using born-normalized optical projection tomography. <i>PLoS ONE</i> , 2012 , 7, e34427	3.7	5
62	Molecularly self-assembled nucleic acid nanoparticles for targeted in vivo siRNA delivery. <i>Nature Nanotechnology</i> , 2012 , 7, 389-93	28.7	836
61	Lack of microsomal prostaglandin E(2) synthase-1 in bone marrow-derived myeloid cells impairs left ventricular function and increases mortality after acute myocardial infarction. <i>Circulation</i> , 2012 , 125, 2904-13	16.7	19
60	Science to practice: how will myocardial inflammation be imaged with MR imaging?. <i>Radiology</i> , 2012 , 264, 309-11	20.5	1
59	Cardiovascular molecular imaging: the road ahead. <i>Journal of Nuclear Medicine</i> , 2012 , 53, 673-6	8.9	47
58	Origins of tumor-associated macrophages and neutrophils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2491-6	11.5	445
57	Systemic RNAi-mediated Gene Silencing in Nonhuman Primate and Rodent Myeloid Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2012 , 1, e4	10.7	100
56	Healing and adverse remodelling after acute myocardial infarction: role of the cellular immune response. <i>Heart</i> , 2012 , 98, 1384-90	5.1	52

55	Innate response activator B cells protect against microbial sepsis. <i>Science</i> , 2012 , 335, 597-601	33.3	291
54	Extramedullary hematopoiesis generates Ly-6C(high) monocytes that infiltrate atherosclerotic lesions. <i>Circulation</i> , 2012 , 125, 364-74	16.7	321
53	Vasculitis: molecular imaging by targeting the inflammatory enzyme myeloperoxidase. <i>Radiology</i> , 2012 , 262, 181-90	20.5	22
52	Rapid monocyte kinetics in acute myocardial infarction are sustained by extramedullary monocytopoiesis. <i>Journal of Experimental Medicine</i> , 2012 , 209, 123-37	16.6	342
51	In vivo detection of Staphylococcus aureus endocarditis by targeting pathogen-specific prothrombin activation. <i>Nature Medicine</i> , 2011 , 17, 1142-6	50.5	125
50	Therapeutic siRNA silencing in inflammatory monocytes in mice. <i>Nature Biotechnology</i> , 2011 , 29, 1005-10	44.5	594
49	89Zr-labeled dextran nanoparticles allow in vivo macrophage imaging. <i>Bioconjugate Chemistry</i> , 2011 , 22, 2383-9	6.3	100
48	Science to practice: will magnetic guidance of microbubbles play a role in clinical molecular imaging?. <i>Radiology</i> , 2011 , 260, 309-10	20.5	2
47	Report of the National Heart, Lung, and Blood Institute working group on the translation of cardiovascular molecular imaging. <i>Circulation</i> , 2011 , 123, 2157-63	16.7	36
46	Detection of macrophages in aortic aneurysms by nanoparticle positron emission tomography-computed tomography. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 750-7	9.4	120
45	Molecular imaging of coronary atherosclerosis and myocardial infarction: considerations for the bench and perspectives for the clinic. <i>Circulation Research</i> , 2011 , 108, 593-606	15.7	89
44	Angiotensin-converting enzyme inhibition prevents the release of monocytes from their splenic reservoir in mice with myocardial infarction. <i>Circulation Research</i> , 2010 , 107, 1364-73	15.7	164
43	Hybrid PET-optical imaging using targeted probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 7910-5	11.5	191
42	Monocytes: protagonists of infarct inflammation and repair after myocardial infarction. <i>Circulation</i> , 2010 , 121, 2437-45	16.7	546
41	Impaired infarct healing in atherosclerotic mice with Ly-6C(hi) monocytosis. <i>Journal of the American College of Cardiology</i> , 2010 , 55, 1629-38	15.1	238
40	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> , 2010 , 120, 2627-34	15.9	77
39	Multimodality cardiovascular molecular imaging, Part II. <i>Circulation: Cardiovascular Imaging</i> , 2009 , 2, 56-70	30	119
38	Molecular MRI detects low levels of cardiomyocyte apoptosis in a transgenic model of chronic heart failure. <i>Circulation: Cardiovascular Imaging</i> , 2009 , 2, 468-75	3.9	48

37	Molecular imaging of innate immune cell function in transplant rejection. <i>Circulation</i> , 2009 , 119, 1925-32	16.7	70
36	Imaging of the unstable plaque: how far have we got?. <i>European Heart Journal</i> , 2009 , 30, 2566-74	9.5	73
35	Hybrid in vivo FMT-CT imaging of protease activity in atherosclerosis with customized nanosensors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 1444-51	9.4	150
34	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> , 2009 , 2, 460-7	3.9	82
33	¹⁸ F labeled nanoparticles for in vivo PET-CT imaging. <i>Bioconjugate Chemistry</i> , 2009 , 20, 397-401	6.3	208
32	¹⁸ F-4V for PET-CT imaging of VCAM-1 expression in atherosclerosis. <i>JACC: Cardiovascular Imaging</i> , 2009 , 2, 1213-22	8.4	166
31	Oxazine conjugated nanoparticle detects in vivo hypochlorous acid and peroxynitrite generation. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15739-44	16.4	151
30	Identification of splenic reservoir monocytes and their deployment to inflammatory sites. <i>Science</i> , 2009 , 325, 612-6	33.3	1481
29	Unbiased discovery of in vivo imaging probes through in vitro profiling of nanoparticle libraries. <i>Integrative Biology (United Kingdom)</i> , 2009 , 1, 311-7	3.7	20
28	Behavior of endogenous tumor-associated macrophages assessed in vivo using a functionalized nanoparticle. <i>Neoplasia</i> , 2009 , 11, 459-68, 2 p following 468	6.4	90
27	Monocyte subset dynamics in human atherosclerosis can be profiled with magnetic nano-sensors. <i>PLoS ONE</i> , 2009 , 4, e5663	3.7	45
26	Nanoparticle PET-CT imaging of macrophages in inflammatory atherosclerosis. <i>Circulation</i> , 2008 , 117, 379-87	16.7	460
25	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> , 2008 , 29, 445-54	9.5	62
24	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> , 2008 , 117, 1153-60	16.7	158
23	Multimodality cardiovascular molecular imaging, part I. <i>Circulation: Cardiovascular Imaging</i> , 2008 , 1, 244-56	5.6	87
22	MR-optical imaging of cardiovascular molecular targets. <i>Basic Research in Cardiology</i> , 2008 , 103, 87-94	11.8	22
21	Magnetic nanoparticles for MR imaging: agents, techniques and cardiovascular applications. <i>Basic Research in Cardiology</i> , 2008 , 103, 122-30	11.8	186
20	The healing myocardium sequentially mobilizes two monocyte subsets with divergent and complementary functions. <i>Journal of Experimental Medicine</i> , 2007 , 204, 3037-47	16.6	1568

19	Fluorescence tomography and magnetic resonance imaging of myocardial macrophage infiltration in infarcted myocardium in vivo. <i>Circulation</i> , 2007 , 115, 1384-91	16.7	163
18	High-resolution imaging of murine myocardial infarction with delayed-enhancement cine micro-CT. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H3172-8	5.2	53
17	Multimodality molecular imaging identifies proteolytic and osteogenic activities in early aortic valve disease. <i>Circulation</i> , 2007 , 115, 377-86	16.7	325
16	Molecular magnetic resonance imaging in cardiovascular medicine. <i>Circulation</i> , 2007 , 115, 2076-86	16.7	122
15	Dual channel optical tomographic imaging of leukocyte recruitment and protease activity in the healing myocardial infarct. <i>Circulation Research</i> , 2007 , 100, 1218-25	15.7	132
14	Factor XIII deficiency causes cardiac rupture, impairs wound healing, and aggravates cardiac remodeling in mice with myocardial infarction. <i>Circulation</i> , 2006 , 113, 1196-202	16.7	118
13	Noninvasive vascular cell adhesion molecule-1 imaging identifies inflammatory activation of cells in atherosclerosis. <i>Circulation</i> , 2006 , 114, 1504-11	16.7	508
12	Assessment of Cardiovascular Apoptosis in the Isolated Rat Heart by Magnetic Resonance Molecular Imaging. <i>Molecular Imaging</i> , 2006 , 5, 7290.2006.00012	3.7	42
11	Does FXIII deficiency impair wound healing after myocardial infarction?. <i>PLoS ONE</i> , 2006 , 1, e48	3.7	14
10	Cellular Imaging of Inflammation in Atherosclerosis Using Magnetofluorescent Nanomaterials. <i>Molecular Imaging</i> , 2006 , 5, 7290.2006.00009	3.7	112
9	Cellular imaging of inflammation in atherosclerosis using magnetofluorescent nanomaterials. <i>Molecular Imaging</i> , 2006 , 5, 85-92	3.7	63
8	Assessment of cardiovascular apoptosis in the isolated rat heart by magnetic resonance molecular imaging. <i>Molecular Imaging</i> , 2006 , 5, 115-21	3.7	19
7	Magnetic resonance imaging of cardiomyocyte apoptosis with a novel magneto-optical nanoparticle. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 718-24	4.4	213
6	Serial cine-magnetic resonance imaging of left ventricular remodeling after myocardial infarction in rats. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 14, 547-55	5.6	66
5	Imaging of Heart, Muscle, Vessels257-275		
4	An acute immune response underlies the benefit of cardiac adult stem cell therapy		6
3	Mechanisms of Myeloid Cell Modulation of Atherosclerosis813-824		
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1 Single-nucleus profiling of human dilated and hypertrophic cardiomyopathy. *Nature*,

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