Willem J M Mulder

List of Publications by Year in Descending Order

185 papers	13,349 citations	67 h-index	111 g-index
196 ext. papers	15,560 ext. citations	10.8 avg, IF	6.34 L-index

#	Paper	IF	Citations
185	Systematically evaluating DOTATATE and FDG as PET immuno-imaging tracers of cardiovascular inflammation.. *Scientific Reports*, **2022**, 12, 6185	4.9	1
184	Diverse ultrastructural landscape of atherosclerotic endothelium. *Atherosclerosis*, **2021**, 339, 35-45	3.1	1
183	A modular approach toward producing nanotherapeutics targeting the innate immune system. *Science Advances*, **2021**, 7,	14.3	9
182	Prosaposin mediates inflammation in atherosclerosis. *Science Translational Medicine*, **2021**, 13,	17.5	7
181	Embracing nanomaterials□interactions with the innate immune system. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2021**, 13, e1719	9.2	1
180	Cyclic Arginine□Glycine□Aspartate-Decorated Lipid Nanoparticle Targeting toward Inflammatory Lesions Involves Hitchhiking with Phagocytes. *Advanced Science*, **2021**, 8, 2100370	13.6	1
179	Employing nanobodies for immune landscape profiling by PET imaging in mice. *STAR Protocols*, **2021**, 2, 100434	1.4	1
178	Targeting Trained Innate Immunity With Nanobiologics to Treat Cardiovascular Disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 1839-1850	9.4	1
177	Nanoengineering Apolipoprotein A1-Based Immunotherapeutics. *Advanced Therapeutics*, **2021**, 4, 2100083	4.9	1
176	Trained immunity, tolerance, priming and differentiation: distinct immunological processes. *Nature Immunology*, **2021**, 22, 2-6	19.1	85
175	Imaging-guided nanomedicine development. *Current Opinion in Chemical Biology*, **2021**, 63, 78-85	9.7	6
174	Multimodal imaging of bacterial-host interface in mice and piglets with endocarditis. *Science Translational Medicine*, **2020**, 12,	17.5	1
173	Whole-Body Atherosclerosis Imaging by Positron Emission Tomography/Magnetic Resonance Imaging: From Mice to Nonhuman Primates. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 1123-1134	9.4	1
172	Tumor Targeting by □ntegrin-Specific Lipid Nanoparticles Occurs Phagocyte Hitchhiking. *ACS Nano*, **2020**, 14, 7832-7846	16.7	28
171	Defining trained immunity and its role in health and disease. *Nature Reviews Immunology*, **2020**, 20, 375-388	36.5	587
170	Atherosclerosis Immunoimaging by Positron Emission Tomography. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 865-873	9.4	6
169	Ultra-high resolution, 3-dimensional magnetic resonance imaging of the atherosclerotic vessel wall at clinical 7T. *PLoS ONE*, **2020**, 15, e0241779	3.7	1

168	Hybrid PET- and MR-driven attenuation correction for enhanced F-NaF and F-FDG quantification in cardiovascular PET/MR imaging. *Journal of Nuclear Cardiology*, **2020**, 27, 1126-1141	2.1	7
167	Imaging Cardiovascular and Lung Macrophages With the Positron Emission Tomography Sensor Cu-Macrin in Mice, Rabbits, and Pigs. *Circulation: Cardiovascular Imaging*, **2020**, 13, e010586	3.9	7
166	Immune Checkpoint Inhibitor Therapy Aggravates T Cell-Driven Plaque Inflammation in Atherosclerosis. *JACC: CardioOncology*, **2020**, 2, 599-610	3.8	18
165	Hydroxychloroquine Inhibits the Trained Innate Immune Response to Interferons. *Cell Reports Medicine*, **2020**, 1, 100146	18	13
164	Nuclear imaging approaches facilitating nanomedicine translation. *Advanced Drug Delivery Reviews*, **2020**, 154-155, 123-141	18.5	22
163	Trained Immunity-Promoting Nanobiologic Therapy Suppresses Tumor Growth and Potentiates Checkpoint Inhibition. *Cell*, **2020**, 183, 786-801.e19	56.2	42
162	Antibody-Mediated Inhibition of CTLA4 Aggravates Atherosclerotic Plaque Inflammation and Progression in Hyperlipidemic Mice. *Cells*, **2020**, 9,	7.9	15
161	Multimodal Positron Emission Tomography Imaging to Quantify Uptake of Zr-Labeled Liposomes in the Atherosclerotic Vessel Wall. *Bioconjugate Chemistry*, **2020**, 31, 360-368	6.3	12
160	Trained immunity in organ transplantation. *American Journal of Transplantation*, **2020**, 20, 10-18	8.7	32
159	An Zr-HDL PET Tracer Monitors Response to a CSF1R Inhibitor. *Journal of Nuclear Medicine*, **2020**, 61, 433-436	8.9	14
158	An iterative sparse deconvolution method for simultaneous multicolor F-MRI of multiple contrast agents. *Magnetic Resonance in Medicine*, **2020**, 83, 228-239	4.4	16
157	Probing myeloid cell dynamics in ischaemic heart disease by nanotracer hot-spot imaging. *Nature Nanotechnology*, **2020**, 15, 398-405	28.7	20
156	Hybrid PET/MR Kernelised Expectation Maximisation Reconstruction for Improved Image-Derived Estimation of the Input Function from the Aorta of Rabbits. *Contrast Media and Molecular Imaging*, **2019**, 2019, 3438093	3.2	10
155	Therapeutic targeting of trained immunity. *Nature Reviews Drug Discovery*, **2019**, 18, 553-566	64.1	169
154	Imaging-assisted nanoimmunotherapy for atherosclerosis in multiple species. *Science Translational Medicine*, **2019**, 11,	17.5	31
153	Nanoparticle-Aided Characterization of Arterial Endothelial Architecture during Atherosclerosis Progression and Metabolic Therapy. *ACS Nano*, **2019**, 13, 13759-13774	16.7	39
152	Smart cancer nanomedicine. *Nature Nanotechnology*, **2019**, 14, 1007-1017	28.7	447
151	Nanoimmunotherapy to treat ischaemic heart disease. *Nature Reviews Cardiology*, **2019**, 16, 21-32	14.8	26

150	Nanobody-Facilitated Multiparametric PET/MRI Phenotyping of Atherosclerosis. *JACC: Cardiovascular Imaging*, **2019**, 12, 2015-2026	8.4	42
149	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
148	Targeting CD40-Induced TRAF6 Signaling in Macrophages Reduces Atherosclerosis. *Journal of the American College of Cardiology*, **2018**, 71, 527-542	15.1	91
147	PET/MR Imaging of Malondialdehyde-Acetaldehyde Epitopes With a Human Antibody Detects Clinically Relevant Atherothrombosis. *Journal of the American College of Cardiology*, **2018**, 71, 321-335	15.1	31
146	RAF/MEK/extracellular signal-related kinase pathway suppresses dendritic cell migration and traps dendritic cells in Langerhans cell histiocytosis lesions. *Journal of Experimental Medicine*, **2018**, 215, 319-336	16.6	36
145	High-Density Lipoprotein Nanobiologics for Precision Medicine. *Accounts of Chemical Research*, **2018**, 51, 127-137	24.3	45
144	Neutrophil derived CSF1 induces macrophage polarization and promotes transplantation tolerance. *American Journal of Transplantation*, **2018**, 18, 1247-1255	8.7	26
143	Reversible Electroporation-Mediated Liposomal Doxorubicin Delivery to Tumors Can Be Monitored With Zr-Labeled Reporter Nanoparticles. *Molecular Imaging*, **2018**, 17, 1536012117749726	3.7	10
142	Development and Multiparametric Evaluation of Experimental Atherosclerosis in Rabbits. *Methods in Molecular Biology*, **2018**, 1816, 385-400	1.4	3
141	Investigating supramolecular systems using Förster resonance energy transfer. *Chemical Society Reviews*, **2018**, 47, 7027-7044	58.5	76
140	Inhibiting Inflammation with Myeloid Cell-Specific Nanobiologics Promotes Organ Transplant Acceptance. *Immunity*, **2018**, 49, 819-828.e6	32.3	95
139	Current and Emerging Preclinical Approaches for Imaging-Based Characterization of Atherosclerosis. *Molecular Imaging and Biology*, **2018**, 20, 869-887	3.8	14
138	Nanoemulsion-Based Delivery of Fluorescent PARP Inhibitors in Mouse Models of Small Cell Lung Cancer. *Bioconjugate Chemistry*, **2018**, 29, 3776-3782	6.3	12
137	Monocyte and Macrophage Dynamics in the Cardiovascular System: JACC Macrophage in CVD Series (Part 3). *Journal of the American College of Cardiology*, **2018**, 72, 2198-2212	15.1	31
136	Targeting myeloperoxidase in inflammatory atherosclerosis. *European Heart Journal*, **2018**, 39, 3311-3313	35	10
135	Sonophore-enhanced nanoemulsions for optoacoustic imaging of cancer. *Chemical Science*, **2018**, 9, 5646-5657	9.4	21
134	Real-Time Monitoring of Nanoparticle Formation by FRET Imaging. *Angewandte Chemie*, **2017**, 129, 2969-2972	32	6
133	Real-Time Monitoring of Nanoparticle Formation by FRET Imaging. *Angewandte Chemie - International Edition*, **2017**, 56, 2923-2926	16.4	22

132	Relation between resting amygdalar activity and cardiovascular events: a longitudinal and cohort study. *Lancet, The*, **2017**, 389, 834-845	40	269
131	Polyglucose nanoparticles with renal elimination and macrophage avidity facilitate PET imaging in ischaemic heart disease. *Nature Communications*, **2017**, 8, 14064	17.4	95
130	Applying nanomedicine in maladaptive inflammation and angiogenesis. *Advanced Drug Delivery Reviews*, **2017**, 119, 143-158	18.5	29
129	Hyaluronan Nanoparticles Selectively Target Plaque-Associated Macrophages and Improve Plaque Stability in Atherosclerosis. *ACS Nano*, **2017**, 11, 5785-5799	16.7	103
128	Investigating the Cellular Specificity in Tumors of a Surface-Converting Nanoparticle by Multimodal Imaging. *Bioconjugate Chemistry*, **2017**, 28, 1413-1421	6.3	6
127	Near-Infrared Quantum Dot and Zr Dual-Labeled Nanoparticles for in Vivo Cerenkov Imaging. *Bioconjugate Chemistry*, **2017**, 28, 600-608	6.3	22
126	Cardiovascular Immunotherapy and the Role of Imaging. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, e167-e171	9.4	4
125	Integrating nanomedicine and imaging. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2017**, 375,	3	5
124	Cancer Immunotherapy: From local to global. *Nature Nanotechnology*, **2017**, 12, 840-841	28.7	7
123	Specific Binding of Liposomal Nanoparticles through Inverse Electron-Demand Diels-Alder Click Chemistry. *ChemistryOpen*, **2017**, 6, 615-619	2.3	7
122	A systematic comparison of clinically viable nanomedicines targeting HMG-CoA reductase in inflammatory atherosclerosis. *Journal of Controlled Release*, **2017**, 262, 47-57	11.7	37
121	A Comprehensive Procedure to Evaluate the In Vivo Performance of Cancer Nanomedicines. *Journal of Visualized Experiments*, **2017**,	1.6	4
120	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
119	Augmenting drug-carrier compatibility improves tumour nanotherapy efficacy. *Nature Communications*, **2016**, 7, 11221	17.4	96
118	HDL mimetic CER-001 targets atherosclerotic plaques in patients. *Atherosclerosis*, **2016**, 251, 381-388	3.1	40
117	In Vivo PET Imaging of HDL in Multiple Atherosclerosis Models. *JACC: Cardiovascular Imaging*, **2016**, 9, 950-61	8.4	62
116	Systems Biology and Noninvasive Imaging of Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, e1-8	9.4	10
115	Nanoreporter PET predicts the efficacy of anti-cancer nanotherapy. *Nature Communications*, **2016**, 7, 11838	17.4	73

114	Conformational Changes in High-Density Lipoprotein Nanoparticles Induced by High Payloads of Paramagnetic Lipids. *ACS Omega*, **2016**, 1, 470-475	3.9	3
113	Liposomal prednisolone promotes macrophage lipotoxicity in experimental atherosclerosis. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 1463-70	6	30
112	PET Imaging of Tumor-Associated Macrophages with 89Zr-Labeled High-Density Lipoprotein Nanoparticles. *Journal of Nuclear Medicine*, **2015**, 56, 1272-7	8.9	120
111	Prednisolone-containing liposomes accumulate in human atherosclerotic macrophages upon intravenous administration. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 1039-46	6	97
110	Imaging systemic inflammatory networks in ischemic heart disease. *Journal of the American College of Cardiology*, **2015**, 65, 1583-91	15.1	49
109	Inhibiting macrophage proliferation suppresses atherosclerotic plaque inflammation. *Science Advances*, **2015**, 1,	14.3	137
108	Imaging Macrophage and Hematopoietic Progenitor Proliferation in Atherosclerosis. *Circulation Research*, **2015**, 117, 835-45	15.7	52
107	Effect of open-label infusion of an apoA-I-containing particle (CER-001) on RCT and artery wall thickness in patients with FHA. *Journal of Lipid Research*, **2015**, 56, 703-712	6.3	67
106	Fluorescent nanoparticles for the accurate detection of drug delivery. *Expert Opinion on Drug Delivery*, **2015**, 12, 1881-94	8	21
105	Three-dimensional dynamic contrast-enhanced MRI for the accurate, extensive quantification of microvascular permeability in atherosclerotic plaques. *NMR in Biomedicine*, **2015**, 28, 1304-14	4.4	21
104	Pharmaceutical development and preclinical evaluation of a GMP-grade anti-inflammatory nanotherapy. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 1133-40	6	32
103	Nanomedicines for Endothelial Disorders. *Nano Today*, **2015**, 10, 759-776	17.9	33
102	HDL-mimetic PLGA nanoparticle to target atherosclerosis plaque macrophages. *Bioconjugate Chemistry*, **2015**, 26, 443-51	6.3	92
101	Atherosclerotic plaque targeting mechanism of long-circulating nanoparticles established by multimodal imaging. *ACS Nano*, **2015**, 9, 1837-47	16.7	89
100	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
99	A modular labeling strategy for in vivo PET and near-infrared fluorescence imaging of nanoparticle tumor targeting. *Journal of Nuclear Medicine*, **2014**, 55, 1706-11	8.9	72
98	In vivo imaging of enhanced leukocyte accumulation in atherosclerotic lesions in humans. *Journal of the American College of Cardiology*, **2014**, 64, 1019-29	15.1	36
97	Nonpharmacological lipoprotein apheresis reduces arterial inflammation in familial hypercholesterolemia. *Journal of the American College of Cardiology*, **2014**, 64, 1418-26	15.1	74

96	A statin-loaded reconstituted high-density lipoprotein nanoparticle inhibits atherosclerotic plaque inflammation. *Nature Communications*, **2014**, 5, 3065	17.4	269
95	Probing lipid coating dynamics of quantum dot core micelles via Förster resonance energy transfer. *Small*, **2014**, 10, 1163-70	11	10
94	Imaging and nanomedicine in inflammatory atherosclerosis. *Science Translational Medicine*, **2014**, 6, 239sr1	17.5	131
93	Periodicity in tumor vasculature targeting kinetics of ligand-functionalized nanoparticles studied by dynamic contrast enhanced magnetic resonance imaging and intravital microscopy. *Angiogenesis*, **2014**, 17, 93-107	10.6	14
92	Synthesis and in vitro evaluation of a multifunctional and surface-switchable nanoemulsion platform. *Chemical Communications*, **2013**, 49, 9392-4	5.8	14
91	The complex fate in plasma of gadolinium incorporated into high-density lipoproteins used for magnetic imaging of atherosclerotic plaques. *Bioconjugate Chemistry*, **2013**, 24, 1039-48	6.3	9
90	Synthesis of polymer-lipid nanoparticles for image-guided delivery of dual modality therapy. *Bioconjugate Chemistry*, **2013**, 24, 1429-34	6.3	93
89	MRI of ICAM-1 upregulation after stroke: the importance of choosing the appropriate target-specific particulate contrast agent. *Molecular Imaging and Biology*, **2013**, 15, 411-22	3.8	43
88	Single step reconstitution of multifunctional high-density lipoprotein-derived nanomaterials using microfluidics. *ACS Nano*, **2013**, 7, 9975-83	16.7	89
87	Gold nanocrystal labeling allows low-density lipoprotein imaging from the subcellular to macroscopic level. *ACS Nano*, **2013**, 7, 9761-70	16.7	65
86	Near-infrared fluorescence energy transfer imaging of nanoparticle accumulation and dissociation kinetics in tumor-bearing mice. *ACS Nano*, **2013**, 7, 10362-70	16.7	47
85	Multifunctional gold nanoparticles for diagnosis and therapy of disease. *Molecular Pharmaceutics*, **2013**, 10, 831-47	5.6	496
84	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
83	Nanocrystal Core Lipoprotein Biomimetics for Imaging of Lipoproteins and Associated Diseases. *Current Cardiovascular Imaging Reports*, **2013**, 6, 45-54	0.7	6
82	Atherosclerosis: dyslipidemia, inflammation and lipoapoptosis **2013**, 6-17		
81	Monocytes and macrophages as nanomedicinal targets for improved diagnosis and treatment of disease. *Expert Review of Molecular Diagnostics*, **2013**, 13, 567-80	3.8	72
80	Inorganic nanocrystals as contrast agents in MRI: synthesis, coating and introduction of multifunctionality. *NMR in Biomedicine*, **2013**, 26, 766-80	4.4	39
79	High-density lipoprotein is a nanoparticle, but not all nanoparticles are high-density lipoprotein. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E3548	11.5	5

78	Nanomedical Theranostics in Cardiovascular Disease. *Current Cardiovascular Imaging Reports*, **2012**, 5, 19-25	0.7	42
77	Nanoclusters of iron oxide: effect of core composition on structure, biocompatibility, and cell labeling efficacy. *Bioconjugate Chemistry*, **2012**, 23, 941-50	6.3	11
76	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
75	Tumor angiogenesis phenotyping by nanoparticle-facilitated magnetic resonance and near-infrared fluorescence molecular imaging. *Neoplasia*, **2012**, 14, 964-73	6.4	20
74	Multifunctional Nanoparticles for Target-Specific Imaging and Therapy. *Nanostructure Science and Technology*, **2012**, 155-171	0.9	
73	Mass production and size control of lipid-polymer hybrid nanoparticles through controlled microvortices. *Nano Letters*, **2012**, 12, 3587-91	11.5	158
72	Molecular MR Imaging of Collagen in Mouse Atherosclerosis by Using Paramagnetic CNA35 Micelles. *European Journal of Inorganic Chemistry*, **2012**, 2012, 2115-2125	2.3	18
71	The effect of nanoparticle polyethylene glycol surface density on ligand-directed tumor targeting studied in vivo by dual modality imaging. *ACS Nano*, **2012**, 6, 5648-58	16.7	156
70	Imaging the efficacy of anti-inflammatory liposomes in a rabbit model of atherosclerosis by non-invasive imaging. *Methods in Enzymology*, **2012**, 508, 211-28	1.7	24
69	Imaging neuroinflammation after stroke: current status of cellular and molecular MRI strategies. *Cerebrovascular Diseases*, **2012**, 33, 392-402	3.2	48
68	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
67	Multifunctional nanoemulsion platform for imaging guided therapy evaluated in experimental cancer. *ACS Nano*, **2011**, 5, 4422-33	16.7	162
66	Perspectives and opportunities for nanomedicine in the management of atherosclerosis. *Nature Reviews Drug Discovery*, **2011**, 10, 835-52	64.1	281
65	Nanoparticles as magnetic resonance imaging contrast agents for vascular and cardiac diseases. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2011**, 3, 146-161	9.2	38
64	Contrast enhancement by differently sized paramagnetic MRI contrast agents in mice with two phenotypes of atherosclerotic plaque. *Contrast Media and Molecular Imaging*, **2011**, 6, 35-45	3.2	28
63	Influence of cell-internalization on relaxometric, optical and compositional properties of targeted paramagnetic quantum dot micelles. *Contrast Media and Molecular Imaging*, **2011**, 6, 100-9	3.2	10
62	A versatile and tunable coating strategy allows control of nanocrystal delivery to cell types in the liver. *Bioconjugate Chemistry*, **2011**, 22, 353-61	6.3	32
61	The biological properties of iron oxide core high-density lipoprotein in experimental atherosclerosis. *Biomaterials*, **2011**, 32, 206-13	15.6	59

60	Science to practice: versatile method to track transplanted encapsulated islet cells with multiple imaging modalities. *Radiology*, **2011**, 258, 1-2	20.5	9
59	Diagnostic and therapeutic strategies for small abdominal aortic aneurysms. *Nature Reviews Cardiology*, **2011**, 8, 338-47	14.8	48
58	Nanoparticle Contrast Agents for Cardiovascular Medical Imaging **2011**, 3-24		
57	Imaging and quantifying the morphology of an organic-inorganic nanoparticle at the sub-nanometre level. *Nature Nanotechnology*, **2010**, 5, 538-44	28.7	57
56	Magnetic resonance molecular imaging of thrombosis in an arachidonic acid mouse model using an activated platelet targeted probe. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 403-10	9.4	42
55	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
54	Atherosclerotic plaque composition: analysis with multicolor CT and targeted gold nanoparticles. *Radiology*, **2010**, 256, 774-82	20.5	361
53	High-density lipoprotein-based contrast agents for multimodal imaging of atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 169-76	9.4	97
52	Multimodal clinical imaging to longitudinally assess a nanomedical anti-inflammatory treatment in experimental atherosclerosis. *Molecular Pharmaceutics*, **2010**, 7, 2020-9	5.6	128
51	Annexin A5-functionalized bimodal nanoparticles for MRI and fluorescence imaging of atherosclerotic plaques. *Bioconjugate Chemistry*, **2010**, 21, 1794-803	6.3	87
50	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
49	Synergistic targeting of alphavbeta3 integrin and galectin-1 with heteromultivalent paramagnetic liposomes for combined MR imaging and treatment of angiogenesis. *Nano Letters*, **2010**, 10, 52-8	11.5	126
48	Modified natural nanoparticles as contrast agents for medical imaging. *Advanced Drug Delivery Reviews*, **2010**, 62, 329-38	18.5	148
47	Paramagnetic and fluorescent liposomes for target-specific imaging and therapy of tumor angiogenesis. *Angiogenesis*, **2010**, 13, 161-73	10.6	84
46	Quantum dots for multimodal molecular imaging of angiogenesis. *Angiogenesis*, **2010**, 13, 131-4	10.6	31
45	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
44	Multifunctional imaging nanoprobes. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2010**, 2, 138-50	9.2	55
43	HDL as a contrast agent for medical imaging. *Clinical Lipidology*, **2009**, 4, 493-500		34

42	Nanotechnology in medical imaging: probe design and applications. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 992-1000	9.4	213
41	Morphology, binding behavior and MR-properties of paramagnetic collagen-binding liposomes. *Contrast Media and Molecular Imaging*, **2009**, 4, 81-8	3.2	39
40	Cellular compartmentalization of internalized paramagnetic liposomes strongly influences both T1 and T2 relaxivity. *Magnetic Resonance in Medicine*, **2009**, 61, 1022-32	4.4	69
39	Tyrosine polyethylene glycol (PEG)-micelle magnetic resonance contrast agent for the detection of lipid rich areas in atherosclerotic plaque. *Magnetic Resonance in Medicine*, **2009**, 62, 1195-201	4.4	30
38	Molecular imaging of tumor angiogenesis using alphavbeta3-integrin targeted multimodal quantum dots. *Angiogenesis*, **2009**, 12, 17-24	10.6	121
37	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
36	Magnetic quantum dots for multimodal imaging. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2009**, 1, 475-91	9.2	63
35	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
34	Comparison of synthetic high density lipoprotein (HDL) contrast agents for MR imaging of atherosclerosis. *Bioconjugate Chemistry*, **2009**, 20, 937-43	6.3	60
33	Well-defined, multifunctional nanostructures of a paramagnetic lipid and a lipopeptide for macrophage imaging. *Journal of the American Chemical Society*, **2009**, 131, 406-7	16.4	26
32	Nanoparticulate assemblies of amphiphiles and diagnostically active materials for multimodality imaging. *Accounts of Chemical Research*, **2009**, 42, 904-14	24.3	223
31	Nanocrystal core high-density lipoproteins: a multimodality contrast agent platform. *Nano Letters*, **2008**, 8, 3715-23	11.5	277
30	Improved magnetic resonance molecular imaging of tumor angiogenesis by avidin-induced clearance of nonbound bimodal liposomes. *Neoplasia*, **2008**, 10, 1459-69	6.4	30
29	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
28	Multimodality nanotracers for cardiovascular applications. *Nature Clinical Practice Cardiovascular Medicine*, **2008**, 5 Suppl 2, S103-11		45
27	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
26	Nanomedicine captures cardiovascular disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 801-2	9.4	30
25	An ApoA-I mimetic peptide high-density-lipoprotein-based MRI contrast agent for atherosclerotic plaque composition detection. *Small*, **2008**, 4, 1437-44	11	96

24	Kinetics of avidin-induced clearance of biotinylated bimodal liposomes for improved MR molecular imaging. *Magnetic Resonance in Medicine*, **2008**, 60, 1444-56	4.4	24
23	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
22	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
21	Bimodal Liposomes and Paramagnetic QD-Micelles for Multimodality Molecular Imaging of Tumor Angiogenesis **2008**, 487-512		
20	Anginex-conjugated liposomes for targeting of angiogenic endothelial cells. *Bioconjugate Chemistry* , **2007**, 18, 785-90	6.3	39
19	Protein-liposome conjugates using cysteine-lipids and native chemical ligation. *Bioconjugate Chemistry*, **2007**, 18, 590-6	6.3	68
18	Molecular imaging of macrophages in atherosclerotic plaques using bimodal PEG-micelles. *Magnetic Resonance in Medicine*, **2007**, 58, 1164-70	4.4	120
17	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
16	Early in vivo assessment of angiostatic therapy efficacy by molecular MRI. *FASEB Journal*, **2007**, 21, 378-83	5.9	76
15	MRI contrast agents: current status and future perspectives. *Anti-Cancer Agents in Medicinal Chemistry*, **2007**, 7, 291-305	2.2	204
14	Magnetic resonance molecular imaging contrast agents and their application in atherosclerosis. *Topics in Magnetic Resonance Imaging*, **2007**, 18, 409-17	2.3	20
13	Modified lipoproteins as contrast agents for molecular imaging. *Future Lipidology*, **2007**, 2, 587-590		4
12	Magnetic and fluorescent nanoparticles for multimodality imaging. *Nanomedicine*, **2007**, 2, 307-24	5.6	150
11	Lipid-based nanoparticles for contrast-enhanced MRI and molecular imaging. *NMR in Biomedicine*, **2006**, 19, 142-64	4.4	468
10	Liposome-enhanced MRI of neointimal lesions in the ApoE-KO mouse. *Magnetic Resonance in Medicine*, **2006**, 55, 1170-4	4.4	53
9	Quantum dots with a paramagnetic coating as a bimodal molecular imaging probe. *Nano Letters*, **2006**, 6, 1-6	11.5	439
8	Annexin A5-functionalized bimodal lipid-based contrast agents for the detection of apoptosis. *Bioconjugate Chemistry*, **2006**, 17, 741-9	6.3	108
7	Annexin A5-conjugated quantum dots with a paramagnetic lipidic coating for the multimodal detection of apoptotic cells. *Bioconjugate Chemistry*, **2006**, 17, 865-8	6.3	131

6	MR molecular imaging and fluorescence microscopy for identification of activated tumor endothelium using a bimodal lipidic nanoparticle. *FASEB Journal*, **2005**, 19, 2008-10	0.9	234
5	Relaxivity of liposomal paramagnetic MRI contrast agents. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2005**, 18, 186-92	2.8	117
4	A liposomal system for contrast-enhanced magnetic resonance imaging of molecular targets. *Bioconjugate Chemistry*, **2004**, 15, 799-806	6.3	198
3	Preparation and stability of lipid-coated nanocapsules of cisplatin: anionic phospholipid specificity. *Biochimica Et Biophysica Acta - Biomembranes*, **2004**, 1663, 135-42	3.8	29
2	New Radiotracers, Reporter Probes and Contrast Agents191-221		
1	Regulating trained immunity with nanomedicine. *Nature Reviews Materials*,	73.3	13